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THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

SECOND CONGRESS OF THE UNIVERSITIES OF THE EMPIRE, 1921.

REPORT OF PROCEEDINGS, INCLUDING ADDRESSES, PAPERS, AND DISCUSSIONS.

(See page 12 of this Volume.)

Price 21s. net.

LONDON: G. BELL AND SONS, LTD.

THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

1925

EDITED BY W. H. DAWSON AND
PUBLISHED FOR THE
UNIVERSITIES BUREAU OF
THE BRITISH EMPIRE

LONDON
G. BELL AND SONS, LTD.
1925

Printed in Great Britain by R. & R. CLARK, LIMITED, *Edinburgh*.

PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations, and recent activities of universities.. When British universities were few and university men took but little interest in the affairs of any except their own, the Calendars sufficed; but there are now 67, and each takes a growing interest in the others. The Calendars constitute a library of no mean dimensions—some 50,000 pages—and hardly anywhere except at the Universities Bureau are they all accessible. Much of their contents is of strictly local interest. In the *Yearbook* an attempt is made to extract from each of these bulky volumes such information as is likely to prove of interest to members of other Universities and Colleges, to Government Departments, Clubs, schoolmasters, and the public generally. It would be impossible to present a conspectus of this kind in a volume of manageable dimensions without resorting to the use of abbreviations and other devices for saving space. It is hoped that abbreviation has not been pressed beyond the limits of intelligibility.

In chapters introductory to the sections dealing with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa, and of India, is collected such information regarding their history, regulations, and practice as they share in common. Each section comprises three parts:

(1) A directory of the officers and members of the staff of the University. Much trouble has been taken in preparing these directories to ascertain the sources of the various degrees held by teachers, since such information gives in a small space the educational history of their holders. If no name of a university follows a degree, it may be assumed that the degree was conferred by the university upon whose staff the teacher is serving.

With the exception of honours conferred by H.M. the King, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess. It is, for example, of interest to learn that a medical teacher of a university overseas holds diplomas of the Royal Colleges, whereas the addition of the letters M.R.C.S., L.R.C.P., to the name of a teacher in the

United Kingdom who is also M.D. cannot be said to convey information of importance.

(2) Under the heading "General Information," an account is given of the equipment in libraries, museums, laboratories, etc., of the university, the degrees, diplomas, and certificates which it confers, its composition fees, scholarships open to graduates, residential accommodation, extra-mural work, publications, etc.

(3) The accounts of the universities which hold good with modifications from one issue to another are followed by reports of events of outstanding interest which occurred during the past academic year. They include statistics of the numbers of students in attendance and degrees conferred. These annual reports will be of great importance to future historians of the universities. In the 1924 issue a comparison of student enrolments and degrees conferred in 1912–13 and 1922–23 was given. See Appendix XXIX.

Appendices may be classified as (*a*) Summaries of regulations for the diplomas of the Medical Colleges and other Associations and Institutions of the United Kingdom, and the conditions governing admission to various professions and careers for which university studies are a fitting preparation; (*b*) matriculation examinations; (*c*) admission of students from abroad into the universities of the United Kingdom; (*d*) lists of inter-university scholarships and fellowships, and grants for research; (*e*) brief accounts of universities in foreign countries; (*f*) lists of professional schools of the universities of the United Kingdom and the distribution of subjects in which these universities may be said to specialize; (*g*) university extension lecturers.

The Universities Bureau acknowledges gratefully the ungrudging help afforded by the official Registrars and other correspondents in the Universities. This help gives the book an authoritative character to which it could not otherwise pretend.

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THE UNIVERSITIES BUREAU OF THE EMPIRE

AT the final, Delegates', meeting of the Congress of 1912 it was resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. From its inception until November 1919 the Bureau was, by the great courtesy of the Director, allowed the use of a room in the Imperial Institute. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance. The Committee thereupon purchased the lease of No. 50 Russell Square. Offices in this building have been let to—

THE BRITISH DIVISION OF THE AMERICAN UNIVERSITY UNION. *Director*—CHARLES MILLS GAYLEY, Litt.D., LL.D. *Assistant Director*—R. H. SIMPSON, M.A.

THE OFFICE NATIONAL DES UNIVERSITÉS ET ÉCOLES FRANÇAISES.

THE ANGLO-DANISH BUREAU, ESTABLISHED BY THE DANISH STUDENTS' INTERNATIONAL COMMITTEE. *Director*—J. H. HELWEG, Cand. Mag.

THE COMMONWEALTH FUND; Committee of Award (see page 670).

COMMITTEE

(Appointed in accordance with a resolution of the Delegates to the Congress of the Universities of the Empire, at a Meeting in London on July 5, 1912)

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. W. JOYNT, M.A., representing New Zealand.

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Principal Sir GEORGE ADAM SMITH, M.A., D.D., LL.D., Litt.D., F.B.A., representing Scotland (*Chairman*).

President H. MARSHALL TORY, M.A., D.Sc., LL.D., one of the two representatives of Canada.

E. M. WALKER, M.A., Pro-Provost of Queen's, representing Oxford.

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Secretary: ALEX HILL, M.A., M.D., F.R.C.S.

UNIVERSITIES OF GREAT BRITAIN AND IRELAND

HISTORICAL SUMMARY—ADMISSION AS AN UNDERGRADUATE—ADMISSION OF STUDENTS FROM ABROAD—NUMBER OF FULL-TIME STUDENTS—NATIONAL UNIONS OF STUDENTS—TERMS—FEES—SCHOLARSHIPS—UNIVERSITY GRANTS—REPRESENTATIVES IN PARLIAMENT—UNIVERSITY EXTENSION—CONFERENCES—STANDING COMMITTEE OF VICE-CHANCELLORS—INTERNATIONAL CONFERENCES—INTERCHANGE OF TEACHERS AND STUDENTS—CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE—DEGREES.

UNIVERSITIES were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the "trivium"—GRAMMAR, LOGIC, and RHETORIC, and the "quadrivium"—ARITHMETIC, GEOMETRY, MUSIC, and ASTRONOMY) the Universities added the three higher "Faculties" of THEOLOGY, LAW, and MEDICINE in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St. Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth

century the teaching in the Universities had become mainly traditional and formal, and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession, and the few Denominational tests retained by the older Universities until 1871 were then abolished. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge in 1824 the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects and the throwing open of scholarships to students of such subjects, removed practically all obligations to take orders in the Church of England, and did much to make the Universities accessible to all classes of the community.

Meanwhile the foundation in 1828 on a strictly undenominational basis of what has now become University College, London, provided a teaching institution of University rank free from all restriction of tests. The University of Durham obtained its charter in 1837. In its original conception it followed closely the lines of Oxford. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries and from the first laid stress upon the study of mathematical, scientific, and modern subjects. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, together with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry. A University of Wales was projected early in the fifteenth century and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884, and 1920 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from workpeople at the doors of churches and chapels. The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the then recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish

Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

WOMEN were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886, and King's in 1902. Of the Cambridge colleges Girton originated at Hitchin in 1869, and was removed to the near neighbourhood of Cambridge in 1873; Newnham was founded in 1880. The colleges at Oxford were opened, Lady Margaret in 1878, Somerville in 1879, St. Hugh's in 1886, and St. Hilda's in 1893. Cambridge admitted women informally to Tripos examinations in 1872 and adopted, October 1921, a proposal that it should take power to confer on them by diploma Titles of Degrees. Oxford admitted them to examinations in 1884 and to degrees and full membership in 1920. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904, and to all the modern Universities from their foundation.

Unlike those of most other countries, the Univs. of the United Kingdom have been, since their origin, independent of State control. Another distinguishing characteristic of British Univs., as compared with those of the Continent of Europe, has from the earliest days been the provision of halls of residence, or COLLEGES, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

ADMISSION AS AN UNDERGRADUATE. Before inserting a student's name *in matricula* all Univs. exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree.

Matriculation examinations covering the usual subjects of education in a secondary school are held by the Univs. of Durham, London, Wales, Belfast, Dublin, Ireland (N.U.I.), and the Joint Board of Manchester, Liverpool, Leeds, Sheffield, and Birmingham. Analogous examns. are held by Oxford (" Responsions "), Cambridge (" Previous Examn."), and the Scottish Univs. Entrance Board (" Preliminary Examn."), and these must be passed (or exemption on the ground of having passed equivalent examns. must be obtained) by all students proceeding to degrees, though not necessarily before entering upon courses of study in the Univs. Many of the Oxford and Cambridge Colleges make the passing of Responsions or the Previous or equivalent examns. a condition of admission to the College. Bristol has discontinued its matricn. examn. as superfluous in view of the institution of the School Certificate and Higher Certif. examns. (v. *infra*), and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Colleges at Newcastle are concerned. For details of regulations, see Appendix XXI.

A Matriculation Examination for persons of mature years has been instituted by the above-mentioned Joint Board (v. App. XXI.), and

by Belfast. Armstrong College has a special examn. for candidates proposing to read for a degree in Applied Science who have been engaged in technical pursuits for 2 years. See also p. 103.

School Examinations.—England and Wales. A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board as approved—

I. As " First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects in the three main groups of School subjects (English subjects, Foreign Languages, Mathematics and Science) would entitle a candidate to admission to a Univ. :—

" School Certificate " examns. of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy of Local Examns. and the Cambridge Local Examns. Syndicate (formerly known as " Senior Local " examns.), of the Univs. of Bristol and Durham, and of the Northern (Birm., Leeds, Liv., Manc., Sheff.) Univs. Joint Matricn. Board ; " The General School " examn. of London ; and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, First Examinations include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II. As " Second Examinations," suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course :—The " Higher Certificate " examns. of the Oxford and Cambridge Schools Examns. Board, Bristol, Durham, the Northern Univs. Joint Board, London, Oxford (Delegacy for Local Examns.), Cambridge (Syndicate for Local Examns.), and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a " Secondary School Examinations Council " composed of 23 representatives of the Examining Bodies, County Councils Assocn., Assocn of Municipal Corporations, Assocn. of Education Committees, and Teachers' Registration Council. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies (supplied in all cases by the Univs.) ; that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate ; and that estimates of the merits of their candidates in each of the subjects offered by them if submitted by Head Masters and Head Mistresses are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional

grant in respect of the examn. fees of each pupil so entered. Schools are warned against determining their organization or curriculum exclusively or principally with reference to the requirements of any examn. The arrangement of organization or curriculum for the purpose of preparing any pupils or Form for any examn. not approved by the Board is expressly forbidden.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (v. Appendices), as exempting from entrance examns. The "Second Examinations" are also recognized by many Univs. for exemption from Intermediate Exams. and for admission to Honours courses, etc.

Wales. The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn. examn. is accepted by the Univ. for matricn.; so, also, are certifs. of the other First Examns. (except Durham's), the Scotch Educn. Dept.'s Leaving Certif. (Higher Grade), and the Intermediate Examn. (Senior Grade) of the Ministry of Educn. for Northern Ireland.

Scotland. On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board, which has superseded the Joint Board of Examiners for the Scottish Univs., will provide by "General Regulations" for the recognition of Group Certifs. of the Scotch Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It will similarly provide for the recognition of Leaving or other certifs., in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions will be provided for by "Special" Regns. In the meanwhile, the Preliminary Examn. Regns. of the Joint Board are continued (vide p. 256).

Ireland. The Senior Grade examn. of the Intermediate Education Board of Ireland is accepted, subject for subject, in lieu of the matricn. examns. of Dublin, Nat. Univ. of Ireland, and (subject to special conditions in respect of Maths.) Belfast. Belfast and the N.U.I. also accept, subject for subject, the Scottish Leaving Certif. (Higher or Hons.), the Higher Certif. of the Ox. and Camb. Schools Examn. Board, and (Belfast only) the Bristol School Certif. For admission to the Univ. of Dublin the Senior Lecturer is now allowed to recognize examns. as "equivalent" to the Senior Grade Intermediate, and does so recognize the Scottish Leaving Certificate and others. In 1925 the

new Leaving Certificate for Secondary Schools will be recognized by the N.U.I. as exempting from the matricn. examn. in the same manner as the Senior Grade Intermediate examn.

ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES. Certificates which would qualify for admission to Univs. outside the United Kingdom are accepted as satisfying, in whole or in part, the matricn. requirements of the Univs. of the United Kingdom. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. A summary of existing regulations is given in Appendix XXIII.

The NUMBER OF FULL-TIME STUDENTS in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1922–23 as 44,930, including 12,675 women. The returns do not include the students of the Irish Universities, Guy's Hospital Medical School, and some other schools of the University of London. If the figures for these institutions are added a total of 51,200 is obtained. The total may be distributed as follows: Oxford and Cambridge (including 1400 women), 9400; London, 10,600; Midlands and North of England (Birmingham, Leeds, Liverpool, Manchester, Sheffield, Durham, and Nottingham), 10,250; West and South of England (Bristol, Exeter, Southampton, Reading), 2250; Wales, 2700; Scotland, 11,150; Ireland, 4850. The Grants Committee classify the 44,930 full-time students included in their tables: Medicine, including Dentistry, 11,866, of whom 2368 were women; Arts, Theology, Law, Music, Commerce, Economics, and Education, 18,231 (7999 women); Pure Science, 7763 (2129 women); Engineering, Applied Chemistry, Agriculture, etc., 6759 (179 women). The above statistics do not include the students of the institutions other than Universities and University Colleges in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc.; nor students reading privately for the external degrees of the University of London, for the Bar, etc. Another consideration which makes difficult comparison with statistics of other countries is that the work of the higher forms of many of our secondary and "public" schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of Universities elsewhere, *e.g.* in America.

A NATIONAL UNION OF STUDENTS of the Univs. and Univ. Colleges of England and Wales was formed in Feb. 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (see Appendix XXV.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. In July 1924 a conference of Dominion student representatives was held

at London and Cambridge to discuss ways and means of practical co-operation between students of the Empire, together with general Imperial problems. *Publication*—"The University," once a term, 6d. *Address*—3 Endsleigh Street, London, W.C.1.

NATIONAL UNION OF STUDENTS OF SCOTLAND. Each Students' Representative Council appoints an International Academic Committee. The four Committees form the Executive Committee of the N.U.S., under the presidency of the President of the S.R.C. Conference. The N.U.S., which is affiliated to the *Confédération Internationale des Étudiants*, charges itself with the collection and distribution of information concerning student activities, literature, and travel within Scotland and abroad. Its office is, S.R.C. Office, The Univ., Edinburgh.

IRISH NATIONAL UNION OF STUDENTS. See p. 21.

TERMS. The academic year is divided into three terms, which run from about Oct. 1 to the middle of Dec.; middle of Jan. to end of March; middle of April to end of first week in July.

FEES are charged by all Universities. They vary somewhat in the different Univs., but are, on the average, for Arts £30, for Science £36, for Engineering or for Medicine £30 to £60 per annum in English Univs. In Scottish, Welsh, and Irish Univs. the fees are lower.

SCHOLARSHIPS.—"The English Scholarship System is a medley," wrote Lord Haldane in a foreword to a report on the subject published in July 1924 by the Sir Richard Stapley Educational Trust, "of things very old and very new, national and local, rational, and sometimes, perhaps, the reverse." The number of scholarships is so large, and the conditions for their award and tenure are so varied that it is impossible in this book to give any adequate account of them. In the "General Information" regarding each university will be found, however, a brief notice of scholarships open to graduates. Reference may also be made to the Scholarships paragraph of The Scottish Universities chapter, and to Appendix XXIV. Entrance Scholarships are awarded not only by universities and colleges, by schools administering School-leaving exhibitions, and by the trustees of unattached endowments, but also by Local Education Authorities and by the Board of Education. The expenditure of Local Education Authorities in England and Wales in 1922–23 on Scholarships to universities and institutions of university rank amounted to £220,000. It was with special reference to these awards that the above-mentioned report (obtainable at the Trust's offices, 33 Bloomsbury Square, W.C.1., price 2s. 6d.) was prepared. The Board of Education, which has for many years awarded the Whitworth and other Science scholarships, administers the system of State Scholarships introduced in 1920 for boys and girls in full-time attendance at grant-aided secondary schools who reach in "Second Examinations" (vide p. 4) such a standard as gives reasonable expectation that they are capable of following successfully a course of study for a university degree in honours, and need assistance to enable them to do so. The scholarships, which carry with

them grants in aid of the fee payable for the proposed course and maintenance grants not exceeding £80 p.a., are ordinarily tenable for 3 years which may be extended to 4. The number of such scholarships for which provision was made in 1924 was 200. A review of the whole subject of scholarships is to be found in a report of the Consultative Committee of the Board of Education published in 1916 (Cd. 8291).—*Continued on p. 30.*

PARLIAMENTARY GRANTS TO UNIVS. AND UNIV. COLLEGES. Prior to 1889 the English Univs. and Univ. Colls. were dependent for their incomes upon endowments, subscriptions and students' fees. In that year a Treasury Grant of £15,000 p.a. was made to the English Univ. Colls. and the College at Dundee. At the same date each of the three Welsh Univ. Colls. was receiving £4000 p.a., and the Scotch Univs. a statutable Grant of £42,000, to which was added in 1892 under the Education and Local Taxation Account (Scotland) Act an annual Subsidy of £30,000. Between 1826 and 1895 sums amounting to £380,000 were contributed by Government towards the cost of enlarging the buildings of the Scottish Univs. In Ireland the Queen's Colleges of Belfast, Cork, and Galway were established in 1845, the three buildings costing a total of £100,000. Each College received a Government Grant of £7000 p.a. The Queen's Univ. was established in 1850, as an examining body. Its annual Subsidy, varying with the estimates, never exceeded £5000. In 1879 the Queen's Univ. was replaced by the Royal Univ., also an examining body, but differing from the Queen's Univ. in that students other than those of the Queen's Colls. were admitted to its examns. It also gave fellowships, scholarships, and prizes. Until 1883, when, in accordance with the Act of Parliament by which it was established, it obtained its income of £20,000 p a. out of funds released by the disestablishment of the Church of Ireland, its expenses were met in the same way as in the case of the Queen's Univ.

In 1896 two Commissioners were appointed by the Treasury to inspect the equipment and report upon the work of the 12 Univ Colls in England and at Dundee participating in the Grant (£15,000 p.a.) of 1889 and 2 which were claimants for Grants. In recognition of their increased activities and of additional support received from rates and private benefactions the total Grant was increased to £25,000 p a. In their Report on the Univ. of Birmingham (into which the Mason College had been transformed in 1900), the 11 other Univ. Colls to which Grants had been assigned, and 3 claimants the two Commissioners appointed in 1901 submitted evidence of growth qualifying for increased financial aid; but owing to the South African War no action, with the exception of the addition of the Univ. Colls. of Reading and Southampton to the list, each receiving £1000, was taken by the Treasury until 1905, when the total Grant was increased to £100,000. In Jan. 1906 a Permanent Committee was appointed by the Treasury "to advise the Department as to the distribution of the Grant in aid of Colleges furnishing Education of a Univ. Standard." The Committee forthwith proceeded to appoint two inspectors to report upon the 14 Univs. and Univ. Colls. receiving Grants and 3 claimants. By this time,

in addition to Birmingham, Leeds, Liverpool, Manchester and Sheffield possessed Univs., to each of which £2000 p.a. had been granted towards the cost of examns. and the giving of degrees. The Univ. of London also received £8000 p.a.

In 1909–10 the Grant to the English Univs. and Univ. Colls. and to Dundee was raised to £150,000. In 1907 a Treasury Committee was appointed "to inquire and report upon the University of Wales and its constituent Colleges." (The present Secretary to the Bureau was one of the two Commissioners in 1901 and again in 1906 and a member of this Committee.) Following the issue of the Committee's Report in 1909 the Grant to the 3 Welsh Colleges was increased to £25,000. In 1919 the Advisory Committee was dissolved and the Univ. Grants Committee appointed " to inquire into the financial needs of Univ. Education in the United Kingdom and to advise the Government as to the application of any Grants that may be made by Parliament towards meeting them." The total Grant was increased to £1,000,000. Including Emergency Grants to Cambridge, Oxford, and Trinity College, Dublin, the sums assigned in 1920–21 were: Annual Grants £909,240 (including Ireland £111,000), Non-recurrent Grants £304,000 (including Ireland £67,000). The total Grant for 1921–22 was £1,500,000, and in addition a sum of £500,000 was provided to assist the Institutions to provide retrospective superannuation benefit for their staffs; the grant for 1922–23 for Great Britain only was £1,169,000, which was also the amount of the grant for 1923–24. The estimate for 1924–25 was £1,242,570.

REPRESENTATIVES IN PARLIAMENT. Oxford (2), Cambridge (2), London, Wales, Scottish (3), Dublin, National of Ireland, Belfast—v. the sections relating to these Univs.

Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield—Rt. Hon. H. A. L. FISHER, M.A.; Sir MARTIN CONWAY, M.A.

UNIVERSITY EXTENSION.—The system of university extension lectures and classes initiated in Cambridge in 1873 is described in the Cambridge section (p. 59). Brief notes on their extra-mural work are given also in the " General Information " paragraphs and the annual summaries for other universities. Reference may also be made to Appendix XXX. A summary account of organizations concerned with adult education and a bibliographical note are contained in *The Way Out*, a volume of essays by members of the British Institute of Adult Education (13 John St., Adelphi, W.C.2), published by the Oxford Univ. Press, 1923. To the bibliography should now be added: University Extension, 1873–1923, by W. H. Draper, Cambridge Univ. Press, 3s. 6d.; Report of Jubilee Celebrations of the Cambridge Local Lectures, July 1923; British Music, Paper 5 of the Adult Education Committee of the Board of Education, H.M. Stationery Office, 6d. An interesting new departure in 1924 was undertaken by the L. and N.E. Railway Company which made arrangements for the provision of Courses of Lectures in Railway subjects (Economics, Operating and Commercial, Law and Geography) for members of the clerical staff of

the Company. Under this Scheme lectures are provided in England by the Univs. of Leeds, Manchester, and Sheffield, the London School of Economics, Armstrong College, Newcastle-on-Tyne, and Univ. College, Nottingham; and in Scotland by the Univs. of Aberdeen, Edinburgh, Glasgow, and St. Andrews. A fee of 5s. per subject is payable by the student, and prizes of from one to five guineas for each subject are given to all who reach certain prescribed standards.

CONFERENCES. In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encouragement of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor, obtainable by graduates of British and foreign Univs. after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. The resulting legislation is summarized on p. 16. Interchange of Teachers and Students, the Tenure of University Offices, Superannuation and Provision of Pensions, and other matters have been considered by Conferences specially convened at various times.

In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Govt. of the U.S. a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Univs. the desirability of establishing a representative body to which matters of interest to the Univs. might be referred by Govt. Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Univs. and represent them in their relations with the Univs. of other nations. At a subsequent meeting Conference resolved that "it is desirable in the interests of the Univs. and of the nation that steps be taken to promote co-operation and mutual consultation among the Univs. of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each Univ. or a deputy appointed by him, together with the Executive Committee of the Universities' Bureau, be appointed a Standing Committee to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Govt. and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors has dealt with such matters as the presentation of the case for Increased Grants to Univs. and Univ. Colleges, leading to the Deputation to the President of the Board of Education and the Chancellor of the Exchequer which was received in Nov. 1918; the relations of the Univs. and Univ. Colleges to national schemes for the Promotion of Research; the question of controlling the number of students in professional and other subjects; the Recognition of the Special Army Education Certif., as qualifying for matriculation; Fees for Courses of Undergraduate and for Post-graduate Study and the possibility of adopting a uniform scale in each of the several Faculties of all Univs. of the U.K.; the relations of

the Univs. to Training Colleges for Teachers; qualification for admission to courses leading to the Ph.D. degree; recognition of foreign school-leaving certificates as qualifying for matriculation; salaries of members of staff; recognition of records of students from Australia, Canada, S. Africa, and India; specialization in certain subjects of study by certain Universities*; the mutual recognition of Matriculation examns. and Degree courses of study; Income-tax on funds invested for provision of pensions, Inhabited House Duty on hostels and other legal liabilities of Universities; the replenishing of the libraries of the Univs. of Louvain, Nancy, Tokio.

At the ANNUAL CONFERENCE of the Univs. of Great Britain and Ireland held on May 10, 1924, the subjects discussed were: (1) the directions in which Universities might profitably develop, at the present time, were funds available; (2) the Ph.D. Degree as an encouragement to higher study and research; (3) Universities and research in relation to the development of the natural resources and the industries of the Empire; (4) interchange of University teachers and students. A report of the proceedings was printed. Copies are obtainable from the Universities Bureau, 50 Russell Square, price 1s.

INTERNATIONAL CONFERENCES. Following the Mission to America already referred to, the British Univs. in May 1919 accepted an invitation to appoint a delegation to visit the Univs. of France as guests of the French Republic. In the autumn of 1919 a similar invitation was accepted from the Belgian Govt. In July 1920, 17 Professors of English, and in July 1921, 32 Professors of History, from many parts of the U.S.A. and the British Dominions overseas, met their colleagues of the Universities of the U.K. in conference at the invitation of the University of London to discuss methods of research and teaching and to elaborate plans of co-operation. The Conference of 1921 synchronized with the opening of the University of London Institute of Historical Research. A Conference of British and Swiss Universities was held at Bâle in 1922. By invitation of Columbia University a Conference of British and American teachers of English was held in New York in June 1923, and an Anglo-American Conference of Professors of History took place at Washington and Richmond (Virginia), Dec. 27-30, 1924.

INTERCHANGE OF TEACHERS AND STUDENTS between the Univs. of the King's Dominions overseas and of foreign countries and the Univs. of the U.K. In May 1919 a Committee was established for the purpose of promoting interchange. This Committee was discharged in March 1922 and replaced by another consisting of the Interchange Correspondents of the Bureau in the various Univs. See, in this connection, Appendices XXII., XXIII., and XXIV.

CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE

The FIRST CONGRESS of the Univs. of the Empire was held in London on July 2 to 5, 1912. All the Universities of the Empire were represented. Subjects discussed: "Specialization among Universities," and "Inter-University Arrangements for Post-graduation and Research

* Vide Appendix XXVII.

Students," Chairman, the Earl of Rosebery and Midlothian, Chancellor of the Univs. of London and Glasgow, and Lord Rector of the Univ. of St. Andrews; "The Relation of Universities to Technical and Professional Education and to Education for the Public Services," and "Interchange of University Teachers," Chairman, the Earl Curzon of Kedleston, Chancellor of the Univ. of Oxford; "The Problem of Universities in the East in regard to their Influence on Character and Moral Ideals," and "Residential Facilities," Chairman, Mr. A. J. Balfour, Chancellor of the Univ. of Edinburgh; "Conditions of Entrance to Universities, Equivalence and Mutual Recognition of Entrance Tests," and "Action of Universities in Relation to the After-careers of their Students," Chairman, Lord Rayleigh, Chancellor of the Univ. of Cambridge; "Courses of Study and Examinations for other than Degree Students, University Extension and Tutorial Class Work," Chairman, Lord Kenyon, Senior Deputy Chancellor of the Univ. of Wales; "The Establishment of a Central Bureau, its Constitution and Functions," "The Position of Women in Universities," and "Representation of Teachers and Graduates on the Governing Body of a University," Chairman, Lord Strathcona and Mount Royal, Chancellor of the Univs. of Aberdeen and McGill.

The SECOND CONGRESS of the Univs. of the Empire met in Oxford on July 5 to 8, 1921. All members received, and upwards of 300 accepted, offers of hospitality, either from a College or from a resident member of the Univ., for the four days during which Congress was to sit. Including members of the Univ. of Oxford, who attended without enrolment, and those who returned to London and other places for the night, the attendance numbered about 550. The 18 Home Univs. and 36 of the Univs. overseas were represented, the visitors from overseas numbering 100. Subjects discussed: "The Universities and the Balance of Studies," Chairman, the Marquess Curzon of Kedleston, Chancellor of the Univ. of Oxford; "The Universities and the Teaching of Civics, Politics, and Social Economics," and "The Universities and Secondary Education," Chairman, Mr. A. J. Balfour, Chancellor of the Univ. of Cambridge and of the Univ. of Edinburgh; "The Universities and Adult Education," Chairman, Viscount Haldane, Chancellor of the University of Bristol; "The Universities and Technological Education," Chairman, the Marquess of Crewe, Chancellor of the Univ. of Sheffield; "The Universities and Training for Commerce, Industry, and Administration" and "The Universities and the Training of School Teachers," Chairman, Dr. J. C. Irvine, Principal, in the place of the late Lord Balfour of Burleigh, Chancellor of the Univ. of St. Andrews; "University Finance," Chairman, Sir Robert Stout, Chancellor of the Univ. of New Zealand; "The Universities and Research," Chairman, Lord Robert Cecil, Chancellor of the Univ. of Birmingham; "Interchange of Teachers and Students," Chairman, Lord Kenyon, Pro-Chancellor of the Univ. of Wales.

Reports of the Proceedings of the Congress, 1912 and 1921, G. Bell & Sons, London, pp. 500, price each £1 : 1s.

The THIRD CONGRESS will be held in Cambridge, July 13 to 16, 1926.

Decrees conferred by the Universities of Great Britain and Ireland

The older Universities have developed out of the Univs. of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Univs. in other lands. Their titles of degrees afford an illustration of this. A Univ. of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examns. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master, or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge, and Dublin, where the examn. for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild, or Senate, follows without further examn. after an interval of two or three years, but in no case less than six years from matricn. For convenience in standardizing the attainments of their alumni, modern Univs. have divided the degree into stages—usually described as the " first " and " higher " degrees—Bachelorship, Mastership, and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years' Univ. course.

At Oxford, Cambridge, Dublin, and in the Scottish Univs. the Faculty of Arts is not subdivided. Except in Scotland, where the mastership (M.A.) takes the place of the bachelorship, B.A. is the " first degree," whether the course leading to it be literary or scientific. In Trinity College, Dublin, it is necessary to secure the B.A. before proceeding to any other degree (except in music). In Scotland, as alternatives to the M.A., the student may take as his " first degree " the B.Sc., pure or applied (the standard being that of M.A. with Honours), the B.L., or the B.Com. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A. At Cambridge there is no B.Sc. At Oxford there are special degrees, B.Litt. and B.Sc. (v. *infra*).

At all other Univs. a course in Arts leads to the B.A., in Science to the B.Sc., in Commerce to the B.Com., and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine, and Music has its own bachelor's degree.

The signatures of the titles of degrees vary. In the following list the more usual signature is placed first :

Bachelor of Arts : B.A.

Bachelor of Science : B.Sc., Sc.B. Dub.

Bachelor of Science in its various applications: B.Sc. (Engineering), B.Eng. Liv., Sheff.; B.A.I. Dub.; B.Sc. (Metallurgy), B.Met. Sheff.; B.Sc. (Mining), B.Sc. (Mining Engineering) Glas.; B.Sc. Tech.; B.Sc. (Applied Chemistry); B.Sc. (Naval Architecture); B.Sc. (Veterinary Science), B.V.Sc. Liv.; B.Sc.Agr., B.Agr. Bris., Agr.B. Dub., B.Agr.Sc. N.U.I.; B.Sc. (Forestry), Agr.B. (Forestry) Dub.; B.Sc. (Horticulture); B.Sc. (Estate Management); B.Sc. (Economics); B.Sc. (Public Health), B.Hy. Durh.; B.Sc. (Pharmacy) Glas.

Bachelor of Commerce: B.Com., B.Comm. N.U.I., B.Com.Sc. Belf.

Bachelor of Architecture: B.Arch.

Bachelor of Dental Science: B.D.S., B.Ch.D. Leeds, B.Dent.Sc. Dub.

Bachelor of Education: B.Ed. (of the Scottish Univs., two years after a first degree).

In Theology the title of the first degree is B.D. In Law it is LL.B., B.C.L. Ox. Durh., B.L. or (open only to graduates in Arts) LL.B. the Scottish Univs. In Medicine the signature of the title is M.B., B.M. Ox.; in Surgery, Ch.B., B.Ch. Camb. Dub. Ox. Wales, B.S. Durh. Lond.; in Obstetrics, B.A.O. Dub. N.U.I. In Music, Mus.B., B.Mus. Birm. Durh. Ox. Wales.

The Primate's Degrees: Under powers conferred before the Reformation by the Pope, the Primate has the right to confer degrees. He has, on an average, conferred two doctorates in recent years.

Honours Degrees

In all Univs. of the United Kingdom the first degree in Arts (or Science, if a separate faculty) may be obtained as an ordinary degree, or with Honours.

At Oxford the Honours Schools (B.A.) are in Literæ Humaniores, Mathematics, Natural Science (including Engineering), Jurisprudence, Modern History, Theology, Oriental Studies, English Language and Literature, Modern European Languages, and Philos., Politics and Economics.

At Cambridge (Triposes), in Anthropology, Classics, Economics, English, Geography, History, Law (B.A. and LL.B.), Mathematics, Mechanical Science, Modern and Mediæval Languages, Oriental Languages, Moral Science, Natural Science, Theology.

In Scotland (M.A.), in Celtic, Classics, Economic Science, English (Aberdeen, Geography), History, Latin and English, French, Italian, or Celtic, Mathematics and Natural Philosophy, Mental Philosophy, Modern Languages (St. Andrews, Natural Science), Sanskrit, Semitic Languages.

At Dublin (Moderatorships), in Mathematics, Classics, Mental and Moral Philosophy, Experimental Science, Natural Science, History and Political Science, Modern Literature, Legal and Political Science, Engineering Science, Celtic Languages, Oriental Languages.

At London, B.A. Hons. in Classics, Latin, Greek, Mathematics, Anthropology, Archæology, English, French, German, Celtic, Italian,

Spanish, Portuguese, Dutch, Scandinavian Langs., Russian, Polish, Czech and Slovak, Serbo-Croat and Slovene, Indo-Aryan, Arabic, Persian, Hebrew and Aramaic (including Syriac), Chinese, Philosophy, Psychology, History, Sociology, Geography; B.Sc. Hons., Mathematics, Astronomy, Physics, Chemistry, Geology, Botany, Zoology, Physiology, Human Anatomy and Morphology, Psychology, Anthropology, Statistics; B.Sc. Hons. (Economics); B.Sc. Hons. (Engineering); B.Sc. Hons. (Mining); B.Sc. Hons. (Metallurgy); B.D. Hons.; LL.B. Hons.; M.B., B.S. Hons.; B.D.S. Hons.

In other Univs. Honours are obtainable in a variety of subjects.

Recognition of Study at other Universities

UNDERGRADUATES. The Univs. of Bristol and Leeds accept attendance for 1 yr. at any Univ. requiring residence as a qualification for a degree. At London any person who has passed the external Intermediate examn. before registering as an Internal student may take the Final Examn. after a 2 yrs.' course and qualify for a degree in the subsequent year. At Oxford members of certain Affiliated Colleges of the United Kingdom, and of certain approved home, colonial, and Indian Univs., who have attended lectures for at least 2 yrs. and attained a prescribed standard, are allowed to count the first term kept by residence as the fourth (see p. 201). At Cambridge a similar privilege is allowed to certain classes of students (see p. 53). At Dublin students who have spent 2 yrs. in Arts studies at certain Univs. (see list on p. 307) and have passed the examns. belonging to that period are given credit for the first academic year. At Durham a similar concession is made to students of science. In the Scottish and certain other Univs. attendance at lectures and examns. passed in other Univs. may be recognized by the Board of Studies, or Senate, after consideration of each case. As regards Belfast, see p. 300.

GRADUATES. The remission to graduates of any other Univ. (or of an approved Univ.) of 2 yrs. of the 4 yrs.' course is made by the Univ. of Dublin, of 1 yr. of the 3 yrs.' course by the Scottish Univs. and by the Univs. of Bristol, London, and the N.U.I. For similar remissions made by Oxford and Cambridge see pp. 201 and 53. At Oxford graduates of a home Univ. and others, being over the age of twenty-one, who can satisfy the Education Committee that they have received a good general education, are eligible to apply for admission to an approved course of special study and research for the degree of B.Litt. or B.Sc., and, if successful, may supplicate for the degree after completing 2 yrs. of residence. At Cambridge graduates suitably qualified are admitted as Research students and may, after the satisfactory completion of a 2 yrs.' course and the submission of a dissertation, obtain the degree of M.Litt. or M.Sc. At Dublin a graduate of any approved Univ. who possesses a degree the equivalent of Moderatorship may, after 1 yr. of advanced study and research, present himself for examn. for the degree of Sc.B. Certain Univs. which have not adopted ordinances to that intent are prepared to consider applications from graduates of

other Univs. who desire to read for higher degrees for remission of standing or exemption from examinations.

Higher Degrees

M.A. At Cambridge a Bachelor of Arts may, without further examn., proceed to the M.A. at the close of the 6th yr. after the end of his first term ; at Oxford in the twenty-first term after matriculation ; at Dublin 3 yrs. after passing the B.A. examn. At Durham and Sheffield graduates in Honours (Durham—1st or 2nd class) of 3 yrs.' and 1 yr.'s standing respectively are admitted to the Mastership without further examn. ; other graduates must pass the M.A. examn. Other Univs. exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examn., or both, of 1 yr. at Birmingham, Leeds, Sheffield, and the N.U.I. ; of 1 yr. from graduates with Honours, and 2 yrs. from others, at Bristol, Manchester, and Wales ; of two years from all graduates at Liverpool and London. Graduates of approved Univs. can obtain the Mastership after 1 yr. of advanced study and research at Birm., Belf., and the N.U.I. ; after 2 yrs. at Bris., Leeds, Liv., Lond., Manc., Sheff., Wales. At London a thesis is required from Internal students in all branches, except Mathematics, in which it is optional, and an examn. At Leeds, Liverpool, and Manchester persons who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

M.Sc. This degree is not conferred by Oxford, Dublin, or the Scottish Univs. At other Univs. it can be obtained by graduates of the Univ. under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' (Sheffield 1 yr.'s) standing who took first or second class Honours, without further test. At Leeds, by graduates, B.Sc., with Honours, of 1 yr.'s standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study (thesis required). At London, by Internal students of 1 yr.'s or 2 yrs.', by External students of 1 yr.'s standing from B.Sc. with thesis (optional in Mathematics) and examn. At Manchester, by graduates, B.Sc., of 1 yr.'s standing after thesis and examn. (at the discretion of the Faculty). At Cambridge the degree is conferred upon Research students (v. p. 57). In other Univs. which confer the degree, graduates of approved Univs. can obtain the M.Sc. on terms similar to those for the M.A.; at Durh. after 2 yrs'. advanced study in the Univ.

Other titles of Mastership conferred by various Univs.—M.Litt., M.Com., LL.M., M.Mus., M.A.O., M.Ch., Ch.M., M.Ch.Orth., M.D.S., M.V.Sc., M.H. (Hygiene), M.Eng., M.Sc.Tech., M.Met., M.Arch., M.Ed.

Ph.D. All the Univs. of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for this degree must be at least 21 (Oxford—22, Brist., Liv., Durh. Wales, Dub.—no minimum age) ; must ordinarily

be graduates either of the Univ. or of some other approved Univ.; must have pursued their studies at a Univ. or Univs. for a period of at least 3 yrs. (Oxford—4, London—2, Dublin—not specified); must produce evidence of fitness for the proposed course of study and research. The course for the degree extends over 3 years or 2 according to the candidate's previous training and attainments. At its termination the student must submit a dissertation and may be required to qualify also by examn. The degree is granted in any faculty in which the Univ. is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the Univ. of London, must have graduated in the Faculty of Theology, Arts, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

Litt.D. and *Sc.D.* The Doctorate in Letters or in Science is conferred upon Masters of Arts or Science (Wales and Dublin, Bachelors or Masters) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Univs. the Faculty may require the applicant to appear for examn. An applicant for the Doctorate must be of 3 yrs.' standing from graduation at Dublin, N.U.I. (for D.Sc. Pub. Health); 4 yrs.' at Manchester, London (for D.Sc. and External D.Lit.); 5 yrs.' at Birmingham, Sheffield, N.U.I. (for D.Litt., D.Litt. Celt., D.Sc.), and the Scottish Univs.; 6 yrs.' at Belfast, Durham (for D.Sc.), Leeds, Liverpool (5 yrs. from M.A. or, for D.Sc., from M.Sc. or Ph.D.), Bristol, Cambridge; 7 yrs.' at Oxford, London (for Internal D.Lit.); 10 yrs.', Univ. of Wales (3 yrs. from M.A., 2 yrs. from Ph.D.), Durham (for Litt.D.).

Graduates of other Univs. who have been admitted to the degree of M.A. or M.Sc. (Oxford M.A., B.Sc., or B.Litt.; Dub. B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Univs. of 5 yrs.' standing who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish Univ., have submitted a satisfactory thesis or published work, and have, if required, passed an examn., are admitted to the Doctorate. At Bristol the degree of D.Sc. can be obtained without previous admission to the M.Sc. At London and Manchester a candidate for the Doctorate may be specially exempted from the examn. for M.A. or M.Sc.

D.Hy. (Durh.) 2 yrs. from B.Hy.; examn., thesis.

Degrees in Divinity

B.D. is conferred after examn. in the Scottish Univs. and the Univs. of Durham, London, Manchester, and Wales; after examn. and submission of a thesis at Dublin; after examn. and the submission of a dissertation and published works at Cambridge (examn. may be omitted) and at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of

a Scottish Univ. who has taken a theological course in a specially recognized institution, or a graduate of an approved Univ. who has taken a complete theological course of at least 2 yrs. in the Univ. conferring the degree; at Dublin, a B.A. of 3 yrs.' standing; at Durham, a man of 25 yrs. of age, who is either a graduate of 2 yrs.' standing or the holder of the Diploma in Theology; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theol. Colls. of the Univ.; at Cambridge, a candidate must be M.A. or LL.M.; at Oxford, a candidate must be a M.A. or must be 26 yrs. of age, have followed a course of study in Christian Theology extending over 6 terms, and resided at the Univ. during 6 terms.

D.D. In Scotland the degree is conferred *honoris causa tantum.* At London it is conferred upon B.D.'s who took Honours in at least one subject, on presentation of a dissertation, followed by an examn., if the examiners so desire. At other Univs. it is conferred in consideration of published works, or a dissertation (and, at Oxford, a *viva voce* examn., if the judges so desire). The requisite standing is, at Cambridge and London, 5 yrs. from B.D.; Dublin, 8 yrs. from B.A.; Durham, 10 yrs. from B.A.; Manchester, 4 yrs. from B.D. (or 6 yrs. for B.D.'s of other Univs. who have studied for 2 yrs. at Manchester); Oxford, 14 yrs. from matricn., or, if he was admitted to the degree of B.D. as a graduate of another Univ., the candidate must have attained the age of 33; Wales, 6 yrs. from B.D.

Degrees in Medicine and Surgery

M.B., Ch.B. The regulations for these degrees are practically uniform. Preliminary examinations satisfying the requirements of the General Medical Council (see Appendix XI.). Registration as a medical student by the G.M.C. is recommended. Satisfactory attendance during at least 5 yrs. at courses of study and hospital practice. Four examns. (in some Univs. grouped as three or two). All examns. must be passed at the Univ. granting the degree, with the exception of the first, in Chemistry, Physics, and Biology, from which a candidate may be exempted if he has passed an equivalent examn. at the Univ., or elsewhere (Scottish Univs., Birmingham, Bristol, Dublin for S. African students only, Durham, London, Oxford Senior Students, Sheffield). Study in the Univ. for at least 3 yrs., except for the degrees as an External student of the Univ. of London, who must study for 1 yr. in a Univ. of the United Kingdom; or for 2 yrs., Scottish Univs., Leeds, Liverpool, Manchester; for 1 yr. College of Medicine, Newcastle-on-Tyne (Durham). The Univs. of Oxford and Cambridge exact 3 yrs.' residence, but allow students to do any or all of their medical work at other recognized medical schools. At Oxford, Dublin, Univ. of Wales, candidates must graduate B.A. (or B.Sc., Wales) before admission to a medical degree.

M.D. Candidates must be M.B., Ch.B. of, usually, 2 yrs.' standing (Oxford, 10 yrs. from matriculation; Cambridge, M.B. of 3 yrs.', or M.A. of 4 yrs.' standing; Sheffield, M.B. of 1 yr.'s standing; Dublin,

of M.A. standing; N.U.I., M.B. of 3 yrs.' standing). A dissertation is compulsory in almost all Univs., followed by an examn., unless the examiners pronounce the dissertation to be of such merit as to render further examn. unnecessary.

Ch.M. Regulations similar to those for M.D.

D.Ch. (Durh.). Candidate must have devoted, subsequently to having obtained a registrable qualification, 3 yrs. (including one at least in the Univ. and 6 months at least abroad) to the study of Surgery and ancillary subjects.

Degrees in Dentistry and in Veterinary Science are obtainable under somewhat similar conditions.

Degrees in Law

LL.B. (or *B.C.L.*), obtainable with Honours or as an ordinary degree. In the Scottish Univs. candidates must have graduated M.A.; at Dublin, Durham (B.C.L.), National University of Ireland, B.A. At Durham candidates must be of 4 yrs.' standing from B.A. In Wales the course extends over 3 yrs. for a pass degree and 4 yrs. for an Honours degree. At Belfast graduates of this or of some other Univ. are eligible for the degree after a 1 yr.'s course in Law; at Oxford, after a 2 yrs.' course, if they obtain Honours in the B.C.L. examination. At Sheffield a graduate of a Univ. of the United Kingdom who has attended for 1 yr. the intermediate course and for 1 yr. the Final course in Law and for 2 yrs. studied in a recognized institution, may be a candidate for the degree. In the majority of Univs. there are two examns., Intermediate and Final. For B.L. v. p. 258.

LL.M. Cambridge, Leeds, Liverpool, Manchester, Sheffield, Wales. By standing for graduates in Law with Honours, except at Leeds and Manc., where a dissertation must be presented. For others, after examn. or (Camb.) dissertation, or both (Wales). Liverpool requires 2 yrs. of approved study.

LL.D. (or *D.C.L.*). By the Scottish Univs. the Doctorate is awarded only *honoris causa tantum*. Other Univs., unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation, or published works, and may require attendance at an examn.; in Dublin a candidate may elect to undergo examn. in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, 2 yrs. from Honours LL.B.; Dublin, 3 yrs. from B.A. of Dub., Ox., or Camb.; Manchester, 4 yrs. from LL.B.; National Univ. of Ireland and Sheffield, 5 yrs. from LL.B.; Oxford (D.C.L.), 5 yrs. from B.C.L.; Cambridge and Liverpool, 5 yrs. from LL.M.; Leeds, 6 yrs. from LL.B.; Durham (D.C.L.) and Wales, 10 yrs. from graduation or 3 yrs. from LL.M.

Degrees in Music

The degrees of Mus.B. (or B.Mus.) and Mus.D. (or D.Mus.) are conferred by the Univs. of Cambridge, Dublin, Durham, Edinburgh,

London, Manchester, Oxford, and Wales; B.Mus. and M.Mus. Birmingham; Mus.M. Cambridge and M.Mus. Wales.

Mus.B. At Birmingham, Cambridge, Dublin, Edinburgh, London, Manchester, and Wales, students must pass the same Entrance examn. (Matriculation, Previous, or Preliminary) as students in Arts; with, at Birmingham, where the degree is an Honours degree, an examn. in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass either Responsions or the Preliminary for Students of Music, in which, if two of the three languages, French, German, Italian, are taken, neither Greek nor Latin is obligatory. In Wales a student must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at Dublin, Durham, or Oxford. At Edinburgh students must study Music in the Univ. for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examns., including an exercise for the Final examn.

Mus.M. Conferred 3 yrs. (Wales—2 yrs.) after the Mus.B. for original work and dissertation (Birmingham), after examn. and exercise (Cambridge, Wales).

Mus.D. Conferred at Cambridge on graduates not less than 30 yrs. of age, in recognition of distinction as Composer; in Wales (D.Mus.) on B.Mus. of 10 yrs.' or M.Mus. of 3 yrs.' standing on consideration of original compositions; at Edinburgh on Mus.B.'s of 3 yrs.' standing, after examn. as Composer, Executant, or Theorist or Historian (Dissertation), and also *honoris causa tantum*; at Dublin on Mus.B.'s after further examn. or practical test; at London on Mus.B.'s of 2 yrs.' standing, Oxford 3 yrs.', Manchester 4 yrs.', Durham and N.U.I. 5 yrs.', after exercise and examn.

Qualifications other than University Degrees referred to in the Yearbook by Letters after Names

[See also lists of medical qualifications in Appendix XI. In the appendices relating to the various professional associations some account is given of the examinations, etc., whereby their qualifications are obtained.]

A.C.A.	Associate of Institute of Chartered Accountants.
A.C.G.I.	,, City and Guilds of London Institute.
A.I.C.	,, Institute of Chemistry.
Assoc.Inst.M.M.	,, Institution of Mining and Metallurgy.
A.M.I.A.E.	Associate Member of Institution of Automobile Engineers.
A.M.I.C.E.	,, ,, ,, Civil Engineers.
A.M.I.Chem.E.	,, ,, ,,
A.M.I.E.E.	,, ,, ,,
A.M.I.Mech.E.	,, ,, ,,
A.M.Inst.M. and Cy E.	,, ,, ,, Municipal and County Engineers.
Assoc.M.I.Min.E.	,, ,, ,, Mining Engineers.
A.M.I.N.A.	,, ,, ,, Naval Architects.
A.M.I.Struct.E.	,, ,, ,, Structural Engineers.
A.R.A.M.	,, of Royal Academy of Music.
A.R.C.O.	,, ,, College of Organists.
A.R.C.S.	,, ,, College of Science.

A.R.E. . . . Associate of Royal Society of Painter Etchers.
A.R.I.B.A. . . . „ „ Institute of British Architects.
A.R.S.M. . . . „ „ School of Mines.
A.R.W.S. . . . „ „ Society of Painters in Water-Colours.
C.A. . . . Chartered Accountant.
D.I.C. . . . Diploma of Imperial College of Science and Technology.
D.M.R.E. . . . „ in Medical Radiology and Electrology.
D.O.M.S. . . . „ in Ophthalmic Medicine and Surgery.
D.P.H. . . . „ in Public Health.
D.P.M. . . . „ in Psychological Medicine.
D.T.M. . . . „ in Tropical Medicine.
D.V.S.M. . . . „ in Veterinary State Medicine.
F.A.I. . . . Fellow of Auctioneers' Institute.
F.B.A. . . . „ British Academy.
F.C.A. . . . „ Institute of Chartered Accountants.
F.G.S. . . . „ Geological Society.
F.I.A. . . . „ Institute of Actuaries.
F.I.C. . . . „ „ Chemistry
F.Inst.P. . . . „ „ Physics.
F.L.S. . . . Fellow of Linnean Society.
F.R.A.M. . . . „ Royal Academy of Music.
F.R.C.O. . . . „ „ College of Organists.
F.R.C.P. . . . „ „ „ Physicians, London.
F.R.C.S. . . . „ „ „ Surgeons, England.
F.R.C.V.S. . . . „ „ „ Veterinary Surgeons.
F.R.I.B.A. . . . „ „ Institute of British Architects.
F.R.S. . . . „ „ Society.
F.S.A.A. . . . „ Society of Accountants and Auditors.
F.S.S. . . . „ Royal Statistical Society.
F.Z.S. . . . „ Zoological Society.
L.C.P. . . . Licentiate of the College of Preceptors.
L.D.S. . . . „ in Dental Surgery.
M.I.A.E. . . . Member of Institution of Automobile Engineers.
M.I.Chem.E. . . . „ „ Chemical Engineers.
M.Inst.C.E. . . . „ „ Civil Engineers.
M.Inst.E.E. . . . „ „ Electrical Engineers.
M.I.Mech.E. . . . „ „ Mechanical Engineers.
M.Inst.M. and Cy.E. . . . „ „ Municipal and County Engineers.
M.I.Min.E. . . . „ „ Mining Engineers.
M.Inst.M.M. . . . „ „ „ and Metallurgy.
M.I.N.A. . . . „ „ Naval Architects.
M.I.P.T. . . . „ „ Petroleum Technologists.
M.I.Struct.E. . . . „ the Institute of Structural Engineers.
M.P.S. . . . „ the Pharmaceutical Society.
M.R.C.V.S. . . . „ the Royal College of Veterinary Surgeons.
M.R.S.I. . . . „ the Royal Sanitary Institute.
N.D.A. . . . National Diploma in Agriculture.
N.D.D. . . . „ „ Dairying.
N.D.P. . . . „ „ Poultry Husbandry.
P.A.S.I. . . . Professional Associate of the Surveyors' Institution.
R.O.I. . . . Royal Institute of Oil Painters.
Wh.Sch. . . . Whitworth Scholar.

N.B.—The letters used in the Yearbook are not in all cases those authorized by the Associations; *e.g.* M.Inst.C.E. is sometimes abbreviated to M.I.C.E., M.I.Mech.E. to M.I.M.E.

Continued from p. 7]

The IRISH STUDENTS' NATIONAL UNION, founded in 1924, is composed of the following student organisations: College Historical Society, University Philosophical Society, and Elizabethan Society (all of Trinity College, Dublin), and the Students' Representative Councils of Queen's Univ., Belfast, and of the Univ. Colleges of Dublin, Cork, and Galway (National Univ. of Ireland). Secretaries: F. G. O. Budd, Trinity College, Dublin, and J. Mowbray, Univ. College, Dublin.

UNIVERSITY OF BIRMINGHAM

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Humphreys, J. Hon. Reader.

Biology

Carter, Mabel G., B.Sc. Lond. Lectr.

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Elliott, Jessie S., B.Sc. Lond., D.Sc. Lectr.

Leach, W., M.Sc. Manc. Asst. Lectr.

Brewing

Ling, A. R., M.Sc., F.I.C. Prof.

Nanji, D. R., M.Sc., A.I.C. Asst. Lectr.

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Morgan, Gilbert T., O.B.E., D.Sc. Lond., A.R.C.S., F.I.C., F.R.S. (Afterwards Supt., S.I.R. Dept.'s Chem. Research Lab., Teddington).

Lectrs. :

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Wardlaw, W., D Sc. Durh., F.I.C.

Wood, C. E., M.Sc., A.I.C. Lectr.

Nicholas, S. D., B.A. Ox., A.I.C.

Cooper, E. Ashley, D.Sc. (Lond.), F.I.C. (Pub. Health Chem.)

Pinkard, F. W., M.Sc. Wales., A.I.C.

Glover, T. J., Ph.D., M.Sc. N.U.I.

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Hickinbottom, W. J., Ph.D., A.I.C.

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Thomson, J. Oliver, O.B.E., M.A. Aberd., B.A. Camb. Prof. (Latin)
Hirst, Margaret E., M.A. Lectr.
Barrett, A. J., M.A. Ox. Lectr. (Latin)
Dodds, E. R., M.A. Ox. Prof. (Greek).

Commerce, v. also Acc., Fin.
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Whale, P. B., M.Com., B.Sc.Econ. Lond. Lectr.

Commercial Law
Tillyard, F., M.A. Ox., M.Com., Barr.-at-Law Prof.

Dental Science, v. *infra*

Education
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Hammond, Marjorie, B.A.
Gill, Conrad, D.Litt. Leeds, M.A. Camb., Senr. Tutor, Continuation Dept.

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Scott, Elizabeth, B.A. Belf.
Ritchie, Frances M., M.Sc. Asst. Lectr. in Secondary Dept.
Buchanan, Freda M., M.A. Edin.
Hippisley-Barnes, Hilda A., B.Sc. Lond. Asst. Lectr. in *Geog.*
Jebb, Eglantyne M., M.A. Ox.
Simpson, Lilian E., B.A.
Dull, E. C., B.Sc. Lond.
Finegan, Eleanor M. V., M.A. Liv.
Hall, Diana
Robertson, Muriel

Asst. Lectrs. :
Chester, K. Elsie, M.A. Ox.
McGregor, Janet G., M.A., B.Ed., Ph.D. Edin. (*History* and Methods of teaching H.).
Carter, Mabel G., B.Sc. Lond.

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Batho, C., D.Sc. McGill, M.Sc., B.Eng. Liv. Beale Prof.
Panton, R. C., M.Sc., M.A., B.A.I. Dub., A.M.I.C.E. Lectr.
Veal, T. H. P., B.Sc., A.M.I.C.E. Lectr.
Coultas, H. W., B.Sc. Leeds, M.Sc., A.M.I.Mech.E. Lectr.
Haywood, W., F.R.I.B.A. (Town Planning) Lectr.

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Kipps, E. J., M.Sc., M.I.E.E. Lectr.
Harvey, G. M., M.Sc., B.Eng. Liv., A.M.I.E.E. Lectr. in Mining E.E.
Randall, O. R., B.Sc. Lond., M.Sc., Ph.D. Lectr.

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Ellis, S. J., B.Sc., A.M.I.C.E. Lectr.
Dean, H. P., B.Sc. (Machine Design) Asst. Lectr.

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Maitland-Smith, I. J., M.A. Aberd. Lectr.
Hughes, A. D. M., M.A. Ox. Lectr.
Milner-Barry, Alda, M.A. Lectr.
Jebb, Eglantyne M., M.A. Ox. Lectr.
Buchanan, Freda M., M.A. Edin. Lectr.

Gillett, E. W., B.A. Ox.
Asst. Lectr.

Finance

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Mitsui Prof.

French

Ritchie, R. L. Graeme, M.A., D.Litt. Aberd., D. de l'U. Paris, O.A. Prof.

Milne, Jane J., M.A. Lectr.

Chester, K. Elsie, M.A. Ox.
Asst. Lectr.

Roe, F. C., M.A., D. de l'Univ. Paris Asst. Lectr.

Frebault, Claire, L. ès L. Lyon
Asst. Prof.

Geology and Mineralogy

Boulton, W. S., D.Sc. Wales, M.Sc., A.R.C.S., F.G.S.

Raw, F., B.Sc. Lond., F.G.S. (Spl. Lectr. in Petrology) Lectr.

Wills, L. J., Ph.D., M.A. Camb., F.G.S. Lectr.

Geography, v. also Educn.

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Strachan, L. R. M., M.A. Lectr.

Liddell, M. F., M.A. Edin. Lectr.

History, v. also Educn. [Prof.

Beazley, C. R., D.Litt. Ox., M.A.

Gill, Conrad (v. Educ.)
Reader in Const. H.

Lectrs. :

Sutcliffe, Dorothy, M.A. Manc. and Leeds

Adams, H. P., M.A. (Ancient H.)

Italian [Serena Prof.

de Castelvecchio, Linetta P., M.A.

Law

Smalley-Baker, C. E., M.A., LL.B. Ox., Barr.-at-Law
Barber Prof.

Potter, H., LL.B. Lond. Reader.

Camm, W. C. Lectr.

Mathematics

Watson, G. N., Sc.D. Camb., D.Sc. Lond., F.R.S.
Mason Prof.

Lectrs. :

Preece, C. T., M.A. Camb.

Colomb, Ruby, M.A. Lond.

Calderwood, Nora I., M.A., B.Sc. Edin.

Lumsden, T. A., M.A., B.Sc. Edin.

Medicine, v. *infra*

Metallurgy [Feeney Prof.

Turner, T., M.Sc., A.R.S.M., F.I.C. (Lectr. in Dental M.)

Bamford, T. G., M.Sc. Liv. Lectr.

Harris, H., M.Sc., F.C.S. Lectr.

Turner, T. H., M.Sc.
Asst. Lectr. & Demr.

Mining, v. also Engin. Elec.

Cadman, Sir John, K.C.M.G., D.Sc., Hon. Prof. of M. and Adviser in the Dept. of M.

Mining, Coal, and Metal

Moss, K. N., O.B.E., M.Sc., A.M.I.C.E., M.I.Min.E., F.G.S. Prof.

Rees, J. P., A.R.S.M., D.I.C., A.M.Inst.M.M.
Lectr. in Metal M.

Garrett, J. G., B.Sc., M.I.Min.E.
Lectr. in Surveying.

Shearer, W. J.
Lectr. in Mine Rescue.

Mining, Oil

Nash, A. W., B.Sc. Belf., M.I.Mech.E., M.I.P.T. Prof.

Timmins, L. P., A.M.I.P.T., F.G.S.
Demr. in Petroleum Boring.

Haldane, J. S., LL.D., M.D., F.R.S., Hon. Prof. and Dir. of Research Lab.

Graham, J. I., M.A. Camb., M.Sc. Lond., A.R.C.Sc.I.
Asst. Dir. of Research.

Shatwell, H. G., M.Sc. (Tech.) Manc., A.I.C.
Research Worker.

Music

Bantock, G., M.A., D.Mus. Edin.
R. Peyton Prof.

Finegan, E. M. V., M.A. Liv.
Lectr.

Philosophy and Polit. Economy
..... Prof.
Harvey, J. W., M.A. Ox. Lectr.

Physics
Smith, S. W. J., M.Sc., M.A. Camb., D.Sc. Lond., F.R.S. Poynting Prof.
Lectrs. :
Shakespear, G. A., D.Sc., M.A. Camb., B.A., B.Sc. Lond. (Spl. Lectr. in Expl. P.)
Barlow, G., D.Sc. Birm., Wales, and Lond.
Keene, H. B., D.Sc.
Ibbs, T. L., M.Sc.
Young, J., B.Sc. Lond., A.R.C.S.
Dee, A. A., B.Sc. Lond., D.I.C.
Demr. :
Johnson, M. C., B.A. Camb.

Physiology
Carlier, E. W. W., M.Sc., M.D. Edin. F.R.S. Prof.
Walker, Hilda, M.B., Ch.B. Lectr.
Patrick, Dorothy M., M.B., Ch.B. Asst. Lectr.

Russian
Tillyard, H. J. W., M.A. Camb., D.Litt. Edin. Prof.

Spanish
Conroy, R., M.A. N.U.I. Lectr.

Zoology and Comp. Anatomy
Gamble, F. W., D.Sc. Manc., M.Sc., F.R.S. (Dir. of Agric. Z. Research) Mason Prof.
Newth, H. G., A.R.C.S., F.Z.S. Lectr.
Eastham, L., M.Sc. Leeds Lectr.
..... Research Zoologist.

* Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*).

Bacteriology, v. Path.

Forensic M. & Toxicology
Morrison, J. T. J., M.A., M.B., B.Chir. Camb., F.R.C.S. Prof.
Walker, C., M.D., B.Sc. Asst.

Hygiene and Public Health, v. also Chem.
Robertson, J., C.M.G., O B.E., M.D., B.Sc. Prof.
Lewis, C. J., M.D., D.Sc. Assoc. Prof.
Auden, G. A., M.D., M.A., D.P.H. Camb., F.R.C.P. (Hygiene) Asst. Lectr.

Infant Hygiene and Dis. of Children
Parsons, L. G., M.D. Lond. (also Clin. Lectr.) Lectr.

Materia Medica
Kneale, J. C., M.B., Ch.B., M.P.S. Lectr.
Greenwood, F. R., M.D., B.S. Lond., M.B., Ch.B. Demr.

Medicine
Russell, J. W., M.A., M.D., F.R.C.P. Prof.
Kauffmann, O. J., M.D., F.R.C.P. Prof.
Ball, L., M.D.
Lectr. for Dental Students and Asst.

Mental Diseases
Hughes, P. T., M.B., Ch.M. Edin., D.P.H. Lond. Lectr.
Joint Board of Research (Univ. and City) :
Mott, Sir F. W., K.B.E., M.D. Lond., F.R.S.
Lectr. in Pathology of M.D. and Hon. Dir. of the Laboratory.
Graves, T. C., M.D., F.R.C.S., M.R.C.V.S. Med. Supt.
Pickworth, A. F., M.B., A.I.C. Research Offr.
Woodhouse, D. L., M.Sc. Research Scholar.

Midwifery and Dis. of Women
Whitehouse, Beckwith, M.S. Lond., F.R.C.S. Prof.

Ophthalmology
Evans, J. J., M.D., F.R.C.S. Lectr.

* Exclusive of 40 clinical lecturers and tutors on the staffs of hospitals

Pathology & Bacteriology
Wilson, G. H., M.D. Glas. Prof. of Path.
Lamb, F. W. M., M.B., Ch.B. Asst. Lectr. in P.
Lewis, C. J., M.D., D.Sc. Edin., F.R.C.P.E. Lectr. in Advanced B.
Wyatt, R. B. H., M.A., M.B., Ch.B. Lectr. in B.
Abrahams, R. G., M.B., Ch.B. Asst.
Ash, E. B., M.B., Ch.B. Asst.
Stammers, A. F., L.D.S. Demr. for Dental Students.

Radiology
Black, Harold, M.D. Lectr.

Surgery [Prof.
Gamgee, L. P., Ch.M., F.R.C.S.
Billington, W., M.S. Lond., F.R.C.S. Prof.
Lucas, A., F.R.C.S. (S. for Dental Students) Lectr.
Goodwin, B. G., F.R.C.S. Asst.

Surgery, Operative
Barnes, F., M.S., F.R.C.S. Lectr.

Therapeutics, Pharmacology and
Stanley, D., M.D. Birm. and Edin., F.R.C.P. Prof.
Smellie, J. M., M.D. Edin. Lectr.

Dental Science, v. also Metall., Med., Path.

Matthews, G. F. C., L.D.S. Lectr. (Orthod.).
Humphreys, H. F., M.B., Ch.B., M.D.S., L.D.S. Lectr. (D. Anat. and Physiol.).
Wellings, A. W., M.D.S., L.D.S. Lectr. (D. Histol., etc.).
Donagan, A. E., M.A. Camb., L.D.S. Lectr. (D. Mechanics).
Madin, W. T., B.D.S., L.D.S. Lectr. (D. Surgery, etc.).
Broderick, R. A., D.S.O., M.B., B.D.S., L.D.S. Lectr. (D. Bacteriology).
Richards, F. W., L.D.S. Lectr. (D. Mat. Med. and Therap.).
10 Clinical lecturers and tutors on the staff of the Dental Hospital.

University Extension

Tutors: J. W. Harvey (Jt.-Secy.) and 12 others.

AFFILIATED INSTITUTIONS

Midland Institute. Students are admitted to Intermediate Arts examn. as Internal students.

Saltley Training College. Students taking the 4-yr. course are admitted to the Intermediate Arts examn. as Internal students.

Handsworth and Lichfield Theological Colleges. Students can take the 2nd and 3rd yrs. for the B.A. in their own Colls.

GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. Arts, Medicine, and the Biological departments are still housed in the buildings of Mason College in the centre of the city. Other buildings have been erected and equipped at a cost of £750,000 at Bournbrook on a site of 40 acres.

• LIBRARY, about 120,000 vols. *Special Collections*: Sargant, rich in French economic literature of about 1830–1860; Collings, some 350 books on agric. and land problems; Bunce, rich in nineteenth-century biography; Corbett, county, especially Shropshire, history. MUSEUMS, Anat., Dent., Geol., Zool.

LABORATORIES: Chemical (special organic, phys., electro-chem., analytical, and public health depts.); Engin., Metallurgy, and Mining (exceptionally well equipped and including coal-mining research lab., expl. coal-mine and oil-boring plant, petroleum engineering being a speciality); Brewing; Power-station supplying whole Univ. with lighting, heat, and power. A small OBSERVATORY is attached to the dept. of Physics. HOSPITALS (600 beds) available for clinics—General, Queen's, and many special.

FACULTIES: Science, Arts, Medicine, Commerce. Deans: Prof. Burstall (Engineering), Prof. de Sélincourt (English), W. F. Haslam (Anatomy), Prof. F. Tillyard.

Departments of Education (training for teaching in primary, secondary, and continuation schools); Malting and Brewing and Bio-Chemistry of Fermentation; Legal Studies; Social Study; Industrial Certificates. Connected with the Medical Faculty is a *School of Dentistry*. Research work is co-ordinated by a University *Research Committee*.

MATRICULATION. See Appendix XXI.

DEGREES, ETC. B.A., B.Mus., M.A., M.Mus., D.Phil., D.Litt.; B.Sc. (in Pure Science, in Engineering—Civ., Elec., Hydro-Elec., or Mech., in Metallurgy, or in Mining—Coal and Metal, or Oil), M.Sc., D.Sc.; M.B., Ch.B., B.Sc. (Pub. Health), B.D.S., M.D., Ch.M., M.D.S.; B.Com., M.Com.; Ph.D. (in any Faculty); LL.D. (Honorary).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other Univs., who are, under certain conditions, admitted to the 1-yr. courses for the M.A. and M.Sc. and to 2 yrs.' courses for the B.Sc. (courses in technical subjects), B.Com. (one year may in exceptional cases be taken elsewhere), Ph.D. (v. p. 16), M.D., or Ch.M.

B.A. Honours schools in Classics, French, German, Engl. Lit., Hist., Social and Polit. Sc., Philos., Maths., Music.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science.

The B.Sc. with Honours requires 3 yrs. after the Intermediate standard has been reached. The B.Sc. courses in Engineering and Oil Mining cover 4 yrs. Those in Mining involve practical work underground. Graduates of Oxford who have obtained the Ox. Dipl. in Scientific Engin. and Mining are eligible, subject to certain provisos, for the B.Sc. in Engin., Mining, or Metall. after 2 yrs.' study in Birmingham.

Special course in Spanish for students of applied science; 2 lecture hours a week for 2 sessions.

Med. students may spend their final yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degree by devoting 6 yrs. after the pre-medical year instead of 5 to study in the Univ.

Candidates for the B.Mus. (Honours) must have passed the matricn. or an equivalent examn. and an examn. in the Rudiments of Music, and power of performance on some musical instrument.

The M.A., M.Com., and M.Sc. involve at least 1 yr. of study after completing the course for the bachelorship.

The M.A. may be taken in Educn. and in Music as well as in the ordinary Arts subjects.

The D.Phil. or D.Litt., M.Mus., or D.Sc. may be taken 3 yrs. after the M.A., B.Mus., or M.Sc.

Advanced Standing. Candidates who pass at entrance certain examns. ordinarily taken after the first year of a degree course may take the final examn. for the B.A. at the end of their second year and the M.A. at the end of their third year. Certain examns. of other approved Univs. and Examining Bodies are accepted as qualifying for such advanced standing.

Diplomas. Art Instructor's (2 yrs.' course), for students of the Municipal School of Art; *Brewing* (3 yrs.' course), Brewing Special for graduates (1 yr.); Graduates' *Commerce* (1 yr. course), open to graduates of any Univ. who have passed an adequate test in accounting; *Mining*; *Social Study* (1 yr. or, Higher Dipl., 2 yrs.' course preparatory for public administration, charity organization, factory welfare, trade union official work, etc.); Secondary, Primary, or Continuation School *Teachers'* (1 yr. course), for graduates of a Univ. of the U.K. or others equally qualified; *Dental Surgery* (4 yrs. subsequent to passing a recognized Pre-Dental examn.); *Public Health* (1 yr. course), not less than 2 yrs. after obtaining registrable qualification in Med., Surg., and Midw.

A Joint *Coal-mining* Diploma of the Univs. of *Oxford* and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60.

Mining students from *British Dominions*, not under 25 years of age, who have been regularly employed in mines for not less than 4 yrs. may take a special 2-yrs. course (combined with practical experience) qualifying for the Univ.'s Mining Diploma.

Certificates for Brewers and Maltsters (2 yrs.).

An *Industrial Certificate* class has been instituted under the control of a joint board of Univ. and Trade Union representatives. This class provides two full days' instruction to members of Trade Unions, nominated by their Unions, in English Literature, Modern History, Economics, and Elementary Science. The work is organized by a special tutor, appointed and paid by the Univ. The class is held in all three terms of the Univ. session, and at the end an Industrial certificate is awarded after examn. The class is a new departure, as it is not based on the principle of evening work but on full-time day work, and the instruction is provided by members of the Univ. Staff. Evening classes are not provided by the Univ., this work being left to the Birm. and Midland Inst., Munic. Tech. Sch., etc.

RESEARCH. A joint standing committee of lay members of council and academic members of senate co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Gov. agencies and external bodies. Trust Funds (Spencer and Holcroft) amount to £10,000.

FEES. Matricn., £2. Tuition for B.A., £75; B.Sc., £75-£96; Engin., £221; Mining, £146-£198; Metall., £129-£175; Med., including Hospl. fees, £170. Examns., Interm. and Final, for first degree, £10, except in Med., £20, and Engin., £12 : 10s. Laboratory research fees average about £20.

SCHOLARSHIPS for advanced students. Walter Myers (Travelling), £150 for 1 yr., renewable, for research in Path. or Clin. Med., open to graduates in Med. and Surg. of Birm. (who have also obtained the B.Sc.), London,

Ox., or Camb.; 10 Scientific Research, tenable for 1 yr. (6 of £96 and 4 of £50 each), are offered annually.

RESIDENCE. For women there is a Hostel—Univ. House, Edgbaston Park Rd. (Warden), with grounds of 2¾ acres; for 70 men students—Chancellor Hall (Warden), Augustus Road, Edgbaston. The cost of board and lodging is from £2 : 2s. upwards a week.

An APPOINTMENTS BOARD (Secy.—The Registrar) has been established.

GUILD OF GRADUATES. Six representatives serve on the Univ. Court of Governors, one of whom is also a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

UNIVERSITY EXTENSION work includes Lectures and Tutorial Classes in the city and neighbouring towns.

PUBLICATIONS. *Calendar* (Oct.), 2s.; Sectional Prospectuses (April); *Careers* in Science; *Report of University Research Committee*, including list of research reports published during the session (Jan.); students' magazine, *The Mermaid*, 6d. (monthly during term)

THE YEAR 1923–24

BENEFACTIONS. T. Child, £1047; various contributions to Appeal Fund, £6242; benefaction to Chancellor's Hall (Men's Hall of Residence), £7635; to Dept. of Brewing, £750; Spencer Bequest for Scientific Research, £250; anonymous contribution to Library, £500; guarantee from anonymous contributors to Readership in Geography of £600 per annum for 5 years; £100 for Campanology from Alderman G. Cadbury; other small sums.

NEW BUILDINGS, ETC. Mining Research Laboratory (£1000). Extension to the equipment in Oil Mining Field (Petroleum Engineering); total sum on Laboratory, rigs, etc., so far spent, £13,000.

NEW POSTS. Barber Chair of Law; full-time reader in Law; Chair of Greek (in place of readership); readership in Geography (R. H. Kinvig from Liverpool).

NEW DEVELOPMENTS. *The Joint Standing Committee for Research* published an extensive report on work done and in progress which received a wide publicity. *Joint Board of Research into Mental Disease*: The new Laboratory was opened by Rt. Hon. Neville Chamberlain, M.P. (June 1923). The Hon. Director, Sir F. Mott, K.B.E., F.R.S., gave ten Lectures in the Univ. on the Pathology of Mental Disease. The staff of the Laboratory for Research has been greatly strengthened. Full details of the work in progress are given in the Report issued in July 1924, copies of which can be obtained from E. Eyles, Asylums Dept., Council House, Birmingham. *Campanology*: The course in this subject, thanks to a donation from Alderman G. Cadbury, will be continued. *University Library*: The scheme of reorganization is now nearing completion. *Town-planning*: The University courses were extended, and it is now proposed to include Wolverhampton and Coventry in the Course of Lectures. *Department of Legal Studies*: A course of extra-mural lectures on the Development of Public Law and Administration has been arranged for the Birmingham Branch of the Institute of Administration.

RESIGNATIONS. Prof. F. C. Lea (Civ. Engineering); Prof. Leedham-Green (Surgery); Prof. T. Wilson (Midwifery).

HONORARY DEGREES (LL.D.) conferred on H.E. Count de Saint Aulaire; Rt. Hon. Reginald M'Kenna; Sir Charles Sherrington; Sir John Bland-

Sutton; Sir Arthur Keith; Sir Henry Fowler; Sir Graham Balfour; Professors S. Alexander, G. H. Hardy, F. Gowland Hopkins, P. F. Frankland.

OTHER DEGREES. B.A., 27 men, 43 women; B.Sc., 94 m., 29 w.; M.B., Ch.B., 37 m., 16 w.; B.Com., 19 m., 3 w.; B.Mus., 1 w.; M.A., 11 m., 5 w.; M.Sc., 28 m., 1 w.; Ch.M., 1 m.; M.Com., 3 m., 1 w.; Ph.D. (Science), 5 m.; D.Sc., 2 m.

NUMBER OF STUDENTS, men (m.) and women (w.): Science, 576 m., 85 w.; Arts, 176 m., 373 w.; Medicine, 348 m., 62 w.; Commerce, 56 m., 4 w.; Social Study, 3 m., 14 w.; Industrial Certificate, 12 m., 3 w.; Legal Studies, 42 m., 2 w.; total, 1213 m., 543 w. Students whose homes are outside the British Isles, 133.

UNIVERSITY EXTENSION WORK. Number of Tutorial Classes: Three-year (W.E.A.), 22, total attendance, 435; One-year (W.E.A.), 44, total attendance, 1209; Study Circles (W.E.A.), 20; Public Lectures (in and outside the Univ.), 147; Summer School, 1.

Continued from p. 8]

The Board held a conference in January 1925 to provide for the co-ordination of grants from all sources for Oxford and Cambridge scholarship candidates.

UNIVERSITY OF BRISTOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. VISCOUNT HALDANE OF CLOAN, O.M., K.T., D.C.L., LL.D., F.R.S. (*ex officio* President of Court, Council, and Convocation).

PRO-CHANCELLORS—Rt. Hon. HENRY HOBHOUSE, M.A., LL.D.; Sir GEORGE A. WILLS, Bart., LL.D.; The Rt. Rev. the LORD BISHOP OF BRISTOL, D.D., LL.D.; STANLEY H. BADOCK.

VICE-CHANCELLOR—THOMAS LOVEDAY, M.A. Ox.

PRO-VICE-CHANCELLOR—Prof. F. FRANCIS, D.Sc., Ph.D., F.I.C.

TREASURER—STANLEY H. BADOCK.

REGISTRAR—E. G. FRANCIS, M.A. Camb.

TUTOR TO THE WOMEN STUDENTS AND WARDEN OF THE UNIV. HALL OF RESIDENCE FOR WOMEN—MAY C. STAVELEY, M.A.

LIBRARIAN—W. L. COOPER, M.A. Ox.

HON. MEDICAL LIBRARIAN—C. KING RUDGE, M.R.C.S., L.R.C.P.

ASSOCIATED INSTITUTIONS

(In which specialized teaching is given or facilities for research are afforded.)

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER, founded 1845 and associated with the Univ. from 1910, was closed during the war, but was reopened in 1923 with M. J. R. Dunstan, O.B.E., M.A., as Principal.

NATIONAL FRUIT AND CIDER INSTITUTE, LONG ASHTON (v. *infra*, LABORATORIES). *Director*—Prof. B. T. P. Barker, M.A.

REDLAND HIGH SCHOOL AND COLSTON'S GIRLS' SCHOOL, BRISTOL, for kindergarten training.

Theological—

BRISTOL BAPTIST COLLEGE. *Principal*—A. Dakin, B.D. Lond., D.Th. Heid.

WESTERN COLLEGE, BRISTOL. *Principal*—R. S. Franks, M.A., D.Litt.

THEOLOGICAL COLLEGE, SALISBURY. *Principal*—C. T. Dimont, M.A., D.D.

S. BONIFACE COLLEGE, WARMINSTER. *Principal*—J. W. S. Tomlin, M.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture

Dunstan, M. J. R., O.B.E., M.A. Ox., F.I.C. Prof.
Barker, B. T. P., M.A. Camb. (A. Biology) Prof
Wallace, T., M.Sc. Durh., A.I.C. (A. Chem.) Lectr.
Briton-Jones, H. R., B.Sc. Lond. (Mycology) Lectr.
Grove, O. (Œnology), M.Sc. Lectr.
Lees, A. H., M.A. Camb. (Entomology) Lectr.
Spinks, G. T., M.A. Camb. (A. Botany) Lectr.
Tutin, F. (Bio-Chem.), M.Sc. Lectr.
Ball, E., B.A. Camb. (Pomology) Lectr.
Mann, C. E. T., B.Sc. Lond. (Plant Physiology) Lectr.
Hutchinson, H. P.. B.Sc. Research Organizer (Willow-growing).
Hanley, J. A., A.R.C.S. Lond., Ph.D. Munich Lectr.
Hirst, F., A.R.C.Sc. (Micro-Biology) Lectr.
Staniland, L. N., A.R.C.Sc. (Entomology) Asst. Lectr.
Nattrass, R. M., B.Sc. Lond. (Mycology) Asst. Lectr.
Watson, Miss M. J. M. (Food Preservation) Demr.

Anatomy

Fawcett, E., M.D., C.M. Edin., F.R.S. Prof.
Stock, W. S. V., M.B., B.S. Lond., F.R.C.S. Demr.
Llewelyn, Miss G. R., M.Sc. Demr.
Adams, A. W., M.B., M.S. Lond., F.R.C.S. Demr.
Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (Surg. and Applied Anat.) Lectr.

Anthropology

..... Lectr.

Arabic, Aramaic, etc., v. Orient.

Art

Brockwell, M. (S.).

Bio-Chemistry, v. also Agric.

Nierenstein, M., Ph.D. Berne, D.Sc. Gén. Lectr.

Botany, v. also Agr.

Darbishire, O. V., B.A. Ox., Ph.D. Kiel Prof.
Hunter, C., M.Sc. Durh. Lectr.
Lee, Miss E. M., M.Sc. Lectr.
Gilchrist, Miss G., B.Sc. Demr.
White, J. W. (Systematic B.) (S.).
Gardiner, G. F., F.R.H.S. (Gardening) (R.).

Chemistry, v. also Agric.

Francis, F., D.Sc. Manc., Ph.D. Erl., F.I.C. A. C. Pass Prof.
Davis, O. C. M., D.Sc. Lond., D.Sc., M.D., Ch.B., F.I.C. (also Lectr. in Med. to *Dental* Students and Demr. in For. Med. and Toxicol.) Lectr
Rixon, F. W., M.Sc. Manc., Ph.D., M.A. Gies., F.I.C. Lectr.
Taylor, Millicent, D.Sc., F.I.C. Lectr.
Appleyard, A., M.Sc. Leeds, F.I.C. Lectr.
Menzies, R. C., Ph.D. St. And., F.I.C. Asst. Lectr.

Chemistry, Applied, v. p. 36.

Chemistry, Hygienic [Lectr.

Russell, E., B.Sc. Lond., F.I.C.

Chemistry, Physical

McBain, J. W., M.A. Tor., D.Sc. Brown., Ph.D. Heid., F.R.S., F.I.C. Leverhulme Prof.
Laing, Mary E., D.Sc. Research Asst.

Classics [H. O. Wills Prof.

Dobson, J. F., M.A. Camb. (Greek)
Brooks, F., M.A. Ox. Prof.
Pitman, H., M.A. Ox. Lectr.

(R.) = Recognized teacher. (S.) = Special Lectr. * Head of Dept.

Commerce, v. Engineering

Dental Science, v. *infra*

Economics, v. also Loc. Govt.
..... Lectr.*
Burrows, H. B., B.Com. Leeds Asst. Lectr.

Education
Wodehouse, Helen M., M.A., D.Phil. Birm. Prof.
Pease, Marian F., LL.D. (S.).
Foster, T. S., M.A. Ox., Master of Method (S.).
Mullock, Amy, M.Sc. Manc., M.A. Mistress of Method.
Childs, E. C., M.A., B.D. Lond. Lectr.
Carré, M. H., M.A. Ox. (E. and *Philos.*) Lectr.
Nicholson, J. H., B.A. Ox., M.A. Lectr.
Asst Lectrs. (v. also Local Gov.) :
Morgan, L. T., B.Sc., L.C.P.
Radclyffe, E. J. D., B.A. Camb.
Whitwill, Gladys C., N.F.U.
Davies, Hilda M., M.A. Wales
Dale, A. Barbara, M.A., Ph.D. Yale.
Byrne, Miss J. W. (Kindergarten).
Wilson, Miss R. M. (Kindergarten).
Skinner, F. Drawing (R.).
Warrell, A., F.R.C.O. Music (R.).
Carlson, J. E. G. Phys. Exerc. (R.).
Jennings, Miss E. S. ,, ,, (R.).

Engineering, v. p. 36.

English [Winterstoke Prof.
Crofts, J. E. V., B.A., B.Litt. Ox.
Haworth, P., M.A. Manc., Ph.D. Innsb. Lectr.
Birkhead, Edith, M.A. Liv. Lectr.

French, v. also p. 36. [Prof.
Boillot, F. F., M.A. Shef., L. ès L.
Perkins, B. N., M.A. Camb. Lectr.
Van Smeevoorde, André Asst.

Geography [Lectr.*
Jervis, W. W., M.Sc. Durh., F.G.S.

Geology
Reynolds, S. H., M.A., Sc.D. Camb. C. Wills Prof.
Turner, H. W., M.A. Ox., F.G.S. Lectr.
Wallis, F. S., M.Sc., Ph.D. Asst. Lectr.
Smith, S., M.A. Camb., D Sc. Durh. Asst. Lectr.

German
Ord, C., M.A. Camb. Lectr.*

Hebrew, v. Orient. Langs.

History
Leonard, G. H., M.A. Camb., M.A. (Modern H.) H. O. Wills Prof.
Staveley, May C., M.A. Dub., M.A. Lectr.
Gardner, Alice, M.A. (Byzantine H.) Reader.
MacInnes, C. M., B A Ox. and Dal. Lectr.
Gough, J. W., B.A. Ox. Asst. Lectr.

Italian
Gualtieri, Signa. E. Lectr.*

Law [Lectr.*
Lewis, M. M., M.A., LL.B. Camb.
Veale, E. W. W., LL.B. Lond. Asst. Lectr.
Wilshere, A. M., M.A. Ox., LL.B. Lond. Lectr. (Comml. L.).

Local Government
Cashmore, Hilda, M.A. Ox. Lectr. (also R. in *Social Work* in Dept. of Educn.).

Mathematics
Hassé, H. R., M.A. Camb., D.Sc. Manc. H. O. Wills Prof.
Todd, H., B.A. Camb. Lectr.
Vint, J., M.A. Belf. Lectr.
Fraser, P., M.A. Camb., B.Sc. Aberd. Lectr.

Maths., Applied
Boulton, E. S., M.A. Camb., B.Sc. Lond. Prof.

Medicine, v. *infra*

(R.) = Recognized teacher. (S.) = Special Lectr. * Head of Dept.

Military Subjects [(S.).
Killick, Capt. A. H., D.S.O., M.C.
Mining, v. Engin.
Music
..... (S.).
Hunt, H. W. (History of M.) (R.).
Beachcroft, R. O., Mus.D. (Teaching Methods) (R.).
Oriental Languages
Segall, J. (Arabic) (S.).
O'Leary, De L., M.A., D.D. Dub. (Aramaic and Syriac) (S.).
Polack, J., B.A. Lond. (S.).
Palæontology
Bolton, H., D.Sc. Reader.
Philology, Comparative
Sibree, E., M.A. Ox. Lectr.
Philosophy, v. also Educn.
Russell, L. J., M.A., B.Sc., D.Phil. Glas. Prof.
Physics, v. also Chem.
Tyndall, A. M., D.Sc. Lond., D.Sc. H. O. Wills Prof.
Williams, Illtyd, M.Sc. Wales Lectr.
Piper, S. H., B.Sc., F.I.P. Lond. Lectr.
Potter, H. H., Ph.D. Lond., B.Sc. Asst. Lectr.
Sucksmith, W., B.Sc. Leeds Lectr.
Physiology
Buckmaster, G. A., M.A., M.D., B.Ch., D.P.H. Ox. H. O. Wills Prof.
Short, A. R., B.Sc., M.D., B.S. Lond., F.R.C.S. Lectr.
Hickman, H. R. B., M.A., M.B., B.Ch. Ox. Lectr.
Rowell, Miriam, M.A. Camb. ,,
Social Work, v. Local Gov.
Technology, v. *infra*
Theological Subjects
Dakin, A., B.D. Lond., D.Th. Heid.
Robinson, F. E., M.A., B.D. Lond., M.A.
Franks, R. S., M.A. Camb., D.Litt. Ox
Macey, T. S., B A. Lond., M.A.
Dimont, C. T., D.D. Ox., M.A.
Bellars, A. R., M.A. Camb. and Bris.
Wand, J. W. C., M.A. Ox.
Prideaux, S. P. T., D.D. Ox.
Burn, A. E., D.D. Camb.
Tomlin, J. W. S., M.A. Ox.
Marshall, H. S., A.K.C.
Matravers, Miss E. C.
Zoology [Lectr.*
Henderson, W. D., M.A., B.Sc. Aberd., Ph.D. Freib. i/B.
Low, J. W., B.Sc. Edin., F.Z.S. Asst. Lectr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Flemming, A. L., M.B., Ch.B. Lectr.*
Corfield, C., M.R.C.S., L.R.C.P. (C.).
Tutors:
Stock, W. S. V., M.B., B.S. Lond., F.R.C.S. (v. also Anat.).
Logan, H. B., M.R.C.S., L.R.C.P.
Bacteriology, v. Pathology
Diseases of the Skin
Wills, W. K., M.A., M.B., B.Ch. Camb. (C.).
Fevers
Peters, B. A., M.D., B.Ch., D.P.H. Camb. (C.).
Forensic Med., etc., v. also Chem.
Parker, G., M.A., M.D. Camb. Lectr.*
Laryng., Rhin., and Otology
Watson-Williams, E., M.B., B.Ch. Camb., Ch.M. (R.).
Wright, A. J. M., M.B., B.S. Lond., M.B., Ch.B., F.R.C.S. Lectr.*
Harty, J. P. I., B.A., M.B., B.Ch., R.U.I., F.R.C.S. (C.).

(C.)=Clinical Lectr. (R.)=Recognized teacher. (S.)=Special Lectr.
* Head of Dept.

Medicine, v. also Pharm.

Edgeworth, F. H., M.A., M.D., B.Ch. Camb., D.Sc. Lond. (C.) Prof.

Nixon, J. A., C.M.G., B.A., M.D., B.Ch. Camb., F.R.C.P. Prof.

Symes, J. O., M.D. Lond., D.P.H. (C.).

Coombs, C. F., M.D., B.S. Lond., F.R.C.P. (C.).

Charles, J. R., M.A., M.D. Camb., F.R C.P. (C.).

Clarke, R. C., O B.E., M.B., Ch.B. (C.).

Birrell, J. A., M.B., B.S. Jr. Tutor.

Herapath, C. E. K., M.D., B.S. Lond. (C.).

Carleton, H. H., M.A., M.D. Ox. Sr. Tutor.

Elkington, G. W., M.R.C.S., L.R C.P. Tutor.

Medicine (Dental Students)

Davis, O. C. M. (v. Chem.) Lectr.

Mental Diseases [(C.).

White, E. B. C., M.R.C.S., L.R.C.P.

Obstetrics, v. also Surg.

Swayne, W. C., M.D., B.S Lond., M.D., Ch.B. (C.), Prof.

Rayner, D. C., F.R.C.S. (C.).

Statham, R. S. S., M.D., Ch M. Lectr., (C.).

Baker, Lily, M.D., B.Ch. Lond., B.A.O., F.R.C.S.I. (R.).

Ophthalmology

Walker, C. H., B.A., M.B. Camb., F.R.C.S. Lectr.*

Cross, F. R., M.B. Lond., LL.D., F.R.C.S. Reader.

Iles, A. E., M.B., B.S. Lond, F.R.C.S. (C.).

Chambers, E. R., F.R.C.S.E., D.O.M.S. (C.).

Garden, R. R., M.A., M.B., Ch.B. Aberd., D.P.H. (R.)

Pathology v. also Pub. Health

Hall, I. W., M.D., Ch.B. Manc Prof.

Path. and Bacteriology [Demr

Todd, A. T., O.B.E., M.D. Edin.

Hadfield, G., M.D., B.S. Lond. Demr.

Pharmacology and Therap.

Neild, Newman, M.B., Ch.B. Vict. (also (C.) in Med.) Lectr.*

Pharmacy (Practical)

Taylor, A. L., M.P.S. (R.).

Thomas, Wm., M.P.S. (R.).

Physio-Therapy [(R.).

Christofferson, P. E., M.B , Ch.B.

Public Health

Davies, D. S., M.D. Lond., LL.D., D.P.H. Lectr.*

Heaven, J. C., M.R.C.S., D.P.H. Demr.

Fraser, A. D., M.A., B.Sc., M.B., Ch.B. Glas., D.P.H. Demr. in Path. and P.H.

Askins, R. A., M.D. Dub., D.P.H. Camb. Demr. (School Hyg.)

Faill, C. J. C., F.R.C.P. Edin. Demr

Radio-Therapy [(C.)

Mayes, F. J. A., M.R C.S., L.R.C.P

Skiagraphy [(C.)

Bergin, F. G., M.R C S., L.R.C.P

Surgery

Morton, C. A., F.R.C.S. Prof

Groves, E. W. H., M D., M.S. B.Sc. Lond., F.R.C.S. Prof

Firth, J. L., M.D., M.S. Lond. F.R.C.S. (C.)

Carwardine, T., M.B., M.S. Lond., F.R.C.S. (C.).

Chitty, H., M.B., M.S. Lond., F.R.C.S. Sr. Tutor (C.).

Walters, C. F., F.R.C.S. (C.).

Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (C.).

Short, A. R., B.Sc., M.D., B.S. Lond., F.R.C.S. (C.).

Wood, D., F.R.C.S. (C.).

(C.)=Clinical Lectr. (R.)=Recognized teacher. * Head of Dept.

Adams, A. W., M.B., B.S. Lond., F.R.C.S.
Smythe, H. J. D., M.S. Lond., F.R.C.S.
Lectr. to *Dental Students* ((C.) in Obstetrics).
Tasker, D. G. C., M.B., M.S. Lond., B.Sc., F.R.C.S.
Sr. Tutor (C.).
Jackman, W. A., M.B., Ch.B.
Jr. Tutor.
Duerden, J. R., M.B., Ch.B. (R.).

Dental Science

Dental Mechanics
Wing, J. C., L.D.S. Lectr.*

Dental Surgery, v. also Chem. and Surg.
Claremont, L. E., L.D.S., M.R.C.S. L.R.C.P. Lectr. (C.).*
Nichols, F. C., M.B., Ch.B., L.D.S. (also in D. Anat.)
Lectr. & Demr. (C.).
Kettlewell, N. H., L.D.S. Tutor.
Rigg, S. K., L.D.S. Tutor.
Fawn, G. F., B.D.S. Tutor.
Lennox, W. J., B.D.S. Tutor.

Engineering

(In the Technical College of the Society of Merchant Venturers)

Applied Chemistry
..... Prof.
Andrews, W. A., B.Sc. Birm., A.I.C. Lectr.

Automobile Engineering
Morgan, W., B.Sc., M.I.A.E. Prof.

Civil Engineering
Ferrier, R. M., M.Sc. Glas., M.I.C.E., M.I.Mech.E. Prof.
Francis, W. E., B.Sc. Wales. Lectr.

Drawing
Baker, J. W. Instr.
Mountney, C. F., A.M.I.Mech.E. Instr.

Engineering Comml. Subjects
Griffin, A. Lectr.

Electrical Engineering
Robertson, D., D.Sc. Glas., M.I.E.E. Prof.
Holmes, S. Lectr.

Mechanical and Mining Engineering
Robertson, A., D.Sc. Edin. Prof.
Watson, F. R. B., B Sc. Edin.
Lectr. (Mech. E.).
Stephens, G. A., B.Sc.
Asst. Lectr. (Mech. E.)

French and German for Engin. Students
Shepherd, Dorothy B. Asst. Lectr.

University Extension

Acting Director of Extra-mural studies—Nicholson, J. H., M.A. (v. Educn.).
Extra-mural Lecturers: 50 members of the staff, including 7 for Tutorial Classes.

(C.)=Clinical Lectr. (R.)=Recognized teacher. * Head of Dept.

GENERAL INFORMATION

University College, Bristol, founded in 1876, was dissolved in 1909 on the incorporation by Royal Charter of the Univ. of Bristol. The main buildings, including a large extension estimated to cost about £500,000, temporarily stopped by the war, but now being proceeded with, a new building for the accommodation of the Physics department at a cost approaching £200,000, and other projected additions, when complete, will cover a site of 16 acres near the centre of the city on high ground adjoining residential districts. The Municipal Museum and Art Gallery adjoin.

The TECHNICAL COLLEGE OF THE SOCIETY OF MERCHANT VENTURERS provides accommodation for and maintains the Faculty of Engineering of the University. Dean of the Faculty—Prof. Andrew Robertson, D.Sc.

LIBRARIES, 45,000 vols. LABORATORIES: Scientific, Medical, and Engineering, all equipped for purposes of research. Agri-Horticultural station at Long Ashton with Expl. fruit plantations 268 acres devoted to research in fruit-culture, cider-making, plant diseases and their treatment, etc. Fruit and vegetable preservation research station at Campden, Glos., controlled by the Univ. on behalf of the Ministry of Agr., for instruction and experimentation on a semi-commercial scale. Hospitals available for clinical study, 2 General (618 beds), Children and Women (108), Eye (40), in all 766 beds.

FACULTIES. Arts, Science, Medicine, Engineering. Deans: Prof. Dobson (Classics), Prof. Tyndall (Physics), Prof. Fawcett (Anatomy), Prof. A. Robertson.

Special Departments. Education (places for 180 men and 180 women students); Agriculture and Horticulture; Pathological Laboratory (for investigation of epidemic and other outbreaks, examination of waters and foods, and routine diagnostic work required by medical practitioners).

MATRICULATION. In common with all other English Univs., Bristol holds School and Higher School Certificate Examns., at which candidates may qualify for matriculation. It holds no separate matriculation examn. See also Appendix XXI.

DEGREE COURSES. B.A., B.Sc., B.Sc. in Engineering—3 yrs., including at least 2 in the Univ.; Honours in Arts and Pure Science—4 yrs., except for those who enter with Higher School Certif.; on an evening class curriculum—6 yrs. (Engineering 5 yrs.); by research in case of a graduate of another Univ.—2 yrs.; "Sandwich" Scheme of Training for Engineers, including 30 mos. in works—5 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—5 yrs., including at least 3 in the Univ.; B.Agr.—5 yrs.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

Post-graduation medical studies are under the direction of the Prof. of Pathology, who arranges for weekly afternoon demonstrations and discussions in April and May. Fee for the course, 1 guinea.

HIGHER DEGREES. M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; Ph.D. (see p. 16). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as far as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc.

DIPLOMAS. Education (post-graduate) 1 yr., L.D.S. 4 yrs., D.P.H. (for fully registered medical practitioners of 2 yrs'. standing), 9 months, D.V.S.M. (for M.R.C.V.S. of 1 yr.'s standing), Engineering 3 yrs. (or evening classes 5 yrs.).

CERTIFICATES. Testamur in Educn., 1 yr.; Continuation School Teachers' Certif., 1 yr.; Testamur in Social Study, 2 or (Higher Testamur) 3 yrs.; Engineering Apprentices, 2 yrs.

FEES. Matricn., 3 gs.; Registration, £1 : 10s.; Tuition, annual, B.A., 24 (Theol. students, 20½) gs.; B.Sc., 30 gs.; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week); M.B., Ch.B., entire curriculum, 205 gs.; B.D.S., including mech. lab. and hospl. practice, 215 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Degree examns., B.A. or B.Sc., 9½ gs.; Med.,

24 gs.; Dent., 25 gs.; M.A. and M.Sc., 7 gs.; Ph.D., 9 gs.; others, 17 gs. Graduation: B.A., B.Sc., M.B., Ch.B., B.D.S., M.A., M.Sc., 2½ gs.; Ph.D., 4 gs.; Ch.M., M.D.S., D.Litt., D.Sc., M.D., 7 gs. Guild of Undergrads., £1 : 15s.; Univ. Union, £1 : 5s. per annum.

RESEARCH. The Colston Research Society devotes annually about £400 to the promotion of Research in the Univ. It offers, preferably to Bristol graduates, fellowships of £150 each, the money being provided by donors, who are allowed to determine the subject of the research and, subject to the approval of the Board of the Faculty, to nominate the holder. The donor has a right of access to the research work and to receive the result of it 12 months prior to publication.

SCHOLARSHIPS FOR GRADUATES. £160 for research in Engin.; £45 and £30 (women only), 32 gs. (men only), for post-graduate course; £35 for Metall. research; £20 for study in English Lit.

RESIDENCE. Mortimer House and Canynge Hall for men—from £75 and £67 : 10s. p.a.; Clifton Hill House and 4 other residences for women students —from 50 gs. p.a.

For FORMER STUDENTS there is an Association of Alumni.

PUBLICATIONS. *Calendar*; Faculty prospectuses issued in June; annual report of Council; Students' Mag. *Nonesuch*, 9d.

THE YEAR 1922–23

BENEFACTIONS. Sir George A. Wills, £30,000 for club for men and women students, and £20,000 endowment for upkeep of property, etc., devoted to corporate life of the Univ.; children of late Rt. Hon. Lewis Fry, £1000 endowment for memorial lecture in Fine Art, History, Literature, Music, Drama, Philosophy, Theology, or Education; friends of late Prof. Skamp, biennial memorial lecture in English Literature; Mrs. Albert Fry's bequest, £800 Consols for a prize.

NEW POSTS. Agric. Information Officer who is, by arrangement with Ministry of Agric., provincial Advisor, and is to be assisted by an Advisor in Agric. Economics and an Asst. Agric. Chemist.

RESIGNATIONS. J. V. Blachford; Miss A. C. Harvey; T. L. Mackesy; G. S. Peren; H. Phillips; F. Summers; A. J. Watson; J. F. G. Wheeler.

DEGREES CONFERRED. B.A., 68 (including women—28); B.Sc., 58 (w.—15); B.Sc.Eng., 27; M.B., 31 (w.—6); B.D.S., 1; M.A., 6; M.Sc., 8; M.D., 1; Ph.D., 6 (w.—1); D.Sc., 1 (w.—1).

STUDENTS. Day students preparing for B.A., 194 (including women—132, and including 100 four-year Training students); B.Sc., 198 (w.—56, four-year T.S., 97); M.B., 155 (w.—36); B.D.S., 3; B.Sc. in Engin., 101; other undergrads., 67 (2-year T.S.). Graduates, 105 (w.—42). Other day students, 237, including 75 Engineering. Evening in Engin., 690; in Arts and Science, 370.

UNIVERSITY EXTENSION. 7 Tutorial Classes in Bristol, Hanham (Glos.), Bath, and Swindon; 10 one-year, preparatory to Tutorial Classes; Summer School in Bristol—5 Courses; 6 Public Lectures at the Merchant Venturers' Technical College, average attendance, 316.

UNIVERSITY OF CAMBRIDGE

CHANCELLOR—Rt. Hon. EARL OF BALFOUR, K.G., O.M., M.A., Hon. LL.D. Trin.

VICE-CHANCELLOR—Prof. A. C. SEWARD, Sc.D., Master of Downing College.

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G., G.C.V.O., M.A., Hon. LL.D. Trin.

DEPUTY HIGH STEWARD—Rt. Hon. J. F. P. RAWLINSON, LL.M., Hon. LL.D. Trin., K.C., M.P.

REPRESENTATIVES IN PARLIAMENT—Rt. Hon. J. F. P. RAWLINSON, LL.M., Hon. LL.D. Trin., K.C.; Sir GEOFFREY BUTLER, K.B.E., M.A. Corp.

PROCTORS—P. GARDNER-SMITH, M.A. Jes.; H. G. E. DURNFORD, M.A., King's.

PUBLIC ORATOR—T. R. GLOVER, M.A. Joh.

REGISTRARY—J. N. KEYNES, Sc.D. Pemb.

LIBRARIAN—A. F. SCHOLFIELD, M.A., King's.

HEADS OF COLLEGES

CHRIST'S	*Master*	Sir A. E. SHIPLEY, G.B.E., Sc.D.
CLARE	,,	W. L. MOLLISON, LL.D.
CORPUS CHRISTI	,,	E. C. PEARCE, D.D.
DOWNING	,,	Prof. A. C. SEWARD, Sc D.
EMMANUEL	,,	P. GILES, Litt.D.
GONVILLE AND CAIUS	,,	Sir H. K. ANDERSON, M.D.
JESUS	,,	A. GRAY, M.A.
KING'S	*Provost*	Sir W. DURNFORD, G.B.E., LL.D.
MAGDALENE	*Master*	A. C. BENSON, C.V.O., LL.D.
PEMBROKE	,,	W. S. HADLEY, LL D.
PETERHOUSE	,,	Lord CHALMERS OF NORTHIAM, P.C., G.C.B., M.A., LL.D.
QUEENS'	*President*	T C. FITZPATRICK, D.D.
ST. CATHARINE'S	*Master*	Rt. Rev. Bishop T. W. DRURY, D.D.
ST. JOHN'S	,,	Sir R. F. SCOTT, M.A.
SIDNEY SUSSEX	,,	G. A. WEEKES, M.A.
TRINITY	,,	Sir J. J. THOMSON, O.M., M.A., Hon. Sc.D.
TRINITY HALL	,,	H. BOND, LL.D.
SELWYN (Public Hostel)	,,	J. O. F. MURRAY, D.D.
FITZWILLIAM HOUSE (Non-Collegiate Students)	*Censor*	W. S. THATCHER, M.A.

RECOGNIZED COLLEGES FOR WOMEN

GIRTON *Mistress* Miss B. S. PHILLPOTTS, O.B.E., Litt.D. Dub.

NEWNHAM *Principal* Miss J. P. STRACHEY, M.A. Dub.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture, v. also Animal, Estate Man., Forestry
Wood, T. B., C.B.E., M.A. Cai. Drapers Prof.
..... Reader.
.....• Gilbey Lectr.
Amos, A., M.A., Down. Lectr.
Barber, C. A., Sc D. Chr. Lectr. in Tropical A.

Agric. Botany [Prof.
Biffen, Sir Rowland H., M.A. Cath.

Agric. Physiology [Reader.
Marshall, F. H. A., Sc.D. Chr.

Anatomy, v. also Zool.
Wilson, J. T., M.A. Joh. Prof.
Duckworth, W. L. H., M.D , Sc.D. Jes. (Human A.) Reader.
Shearer, C., Sc.D. Cla. (Embryology) Lectr.
Appleton, A. B., M.D. Down. Senr. Demr.
Reid, D. G., M.A. Trin. Junr. Demr.
Hopkinson, A., M.A., M.B., B.Chir. Emm. Junr. Demr.
Pennell, V. C., M.A., M.B., B.Chir. Pemb. Addl. Demr.

Anglo-Saxon
Chadwick, H. M., M.A. Clare Elrington and Bosworth Prof.

Animal Pathology
Buxton, J. B., M.A. Prof.

Anthropology, v. Eth.

Arabic, v. Oriental

Archæology, v. also Class., Palæo.
Ridgeway, Sir Wm., Sc.D. Cai. Disney Prof.

Architecture, School of
Fyfe, T., F.R.I.B.A. Master.
Tomlinson, H., B.A. Chr. Asst.
Lyon, T. H., M A. Corp. Dir. of Design.
Hughes, H. C., M A. Pet., A.R.I.B.A. Lectr.

Art [Slade Prof. of Fine Art.
Prior, E. S., M.A. Cai.

Astronomy [Plumian Prof.
Eddington, A. S., M.A. Trin.
Smart, W. M., M A. Trin. Adams Astronomer.

Astron. & Geom. [Lowndean Prof.
Baker, H. F., Sc.D. Joh.

Astrophysics, v. also Meteor.
Newall, H. F., M.A. Trin. (Dir. of Solar Phys. Obs.) Prof.
Milne, E. A., M.A. Trin. Lectr.
Carroll, J. A., B.A. Sid. Asst. Dir.
Wilson, C. T. R., M.A. Sid., F.R.S. Obs. in Meteorological Phys.
Baxandall, F. E., A.R.C.Sc. Sen. Solar Physics Observer.
Butler, C. P., A.R.C.Sc. Sen. Solar Physics Observer.
Moss, W. Junr. Solar Phys. Obs.

Bibliography [Sandars Reader.
Minns E. H., Litt.D. Pemb.

Bio-Chemistry [Sir W. Dunn Prof.
Hopkins, Sir F. G., M.A. Trin.
Haldane, J. B. S., M.A. Trin. Sir W. Dunn Reader.
Hele, T. S., M.D. Emm. Lectr.
Roughton, F. J. W., M.A. Trin. Lectr.
Dixon, M., M.A. Emm. Senr. Demr.

Biology [Quick Prof.
Nuttall, G. H. F., Sc.D. Magd. (Dir. of Molteno Inst. of *Parasitology*)
Keilin, D., M.A. Magd. Asst.

Brindley, H. H., M.A., Joh. (Elem. B. for med. students) Demr.

Botany, v. also Agric.

Seward, A. C., Sc.D. Down. Prof.

Blackman, F. F., M.A. Joh. Reader.

Thomas, H. H., M.A. Down Lectr.

Brooks, F. T., M.A. Emm. Lectr.

Wadham, S. M., M.A. Chr. Senr. Demr.

Godwin, H., B.A. Cla. Junr. Demr.

Briggs, G. E., M.A. Joh. (Plant Physiol.) Demr.

Chemistry, v. also Bio- and Phys. C. and Med. (Path.)

Pope, Sir Wm. J., K.B.E., M.A. Sid. Prof.

Mann, F. G., Ph.D. Down. Asst. to Prof.

McCombie, H., M.A. King's Lectr. and Demr.

Dootson, F. W., M.A. Trin. H. Lectr. and Demr.

Palmer, W. G., M.A. Joh. † Demr.

Berry, A. J., M.A. Down. † Demr.

Chemistry, Organic

Mills, W. H., M.A. Jes. Lectr.

Chem. and Phys. for Hygiene, etc.

Purvis, J. E., M.A. Corp. Lectr.

Classical Archæology

Cook, A. B., M.A. Qu. Reader.

Classics, Epigraphy, etc.

Campbell, S. G., M.A. Chr. Lectr.

Pearson, A. C., Litt.D. Trin. (Greek) Reg. Prof.

Housman, A. E., M.A. Trin. (Latin) Kennedy Prof.

Ridgeway, Prof. Sir Wm., Sc.D. Cai. (v. Arch.) Brereton Reader.

Crystallography, v. Mineralogy

Divinity, v. also Orient. Langs., Religion [Ely Prof.

Brooke, A. E., D.D. King's

Barnes, W. E., D.D. Pet. Hulsean Prof.

Bethune-Baker, J. F., D.D. Pemb. Lady Margaret's Prof.

Burkitt, F. C., D.D. Trin. Norrisian Prof.

Nairne, A., D.D. Jes. Reg. Prof.

Whitney, J. P., D.D. Emm. (Eccles. Hist.) Dixie Prof.

..... (Past. Theol.) Lectr.

Bouquet, A. C., D.D. Trin. Hulsean Lectr.

Economics, v. also Geog., Geol., Pol. Econ. [Girdlers' Lectr.

Lavington, F., M.A. Emm.

Shove, G. F., M.A. King's Lectr.

Robertson, D. H., M.A. Trin. Lectr.

Education

Fox, C., M.A. Chr. Lectr.*

Engineering, v. *infra*

English, v. also Anglo-Saxon

Quiller-Couch, Sir A. T., M.A. Jes K. Ed. VII. Prof. of E. Lit.

Coulton, G. G., M.A. Joh. Lectr.

Estate Management [Reader.

Smith, F. B., C.M.G., M.A. Down.

Ethnology

Haddon, A. C., Sc.D. Chr. Reader.

Forestry

Dawson, W., M.A. Cai. Reader.

..... Lectr.

Cox, H. A., B.A. Gurney Lectr.

French [Drapers Prof.

Prior, O. H. P., M.A. Joh.

Stewart, H. F., D.D. Trin. Reader.

Genetics [Arthur Balfour Prof.

Punnett, R. C., M.A. Cai.

Geodesy

Lenox-Conyngham, Col. Sir G. P., M.A. Trin. Reader.

Geography, v. also Surv.

Lake, P., M.A. Joh. Reader.

Geog., Historical and Econ.

Stanners, R. W., M.A. Cai. Lectr.

* Apptd. by Teachers' Training Syndicate.

† Recognized teacher for medical students.

Geology, v. also Mineral., Palæozool., Petrol.
Marr, J. E., Sc.D. Joh. Woodwardian Prof.
King, W. B. R., O.B.E., M.A. Magd. Asst.
Nicholas, T. C., O.B.E., M.A. Trin. Demr.
Rastall, R. H., Sc.D. Chr. (Econ. G.) Lectr.

German [Schröder Prof.
Breul, K., Litt.D. King's
Bennett, E. K., M.A. Cai. Lectr.

Hebrew, v. Oriental

History, Ancient
Reid, J. S., Litt.D. Cai. Prof.‖
Glover, T. R., M.A. Joh. Lectr.

History, Eccl., v. Div.

History, Indian [Lectr.*
Gaskoin, C. J. B., M.A. Jes.

History, Modern [Reg. Prof.
Bury, J. B., M.A. King's
Temperley, H. W. V., O.B.E., M.A. Pet. Reader.

History, Naval
Rose, J. H., Litt.D. Chr., Vere Harmsworth Prof.

Hygiene, v. Med.

Italian
Okey, T., M.A. Cai. Prof.
Pettoello, Signor D., Dr. Phil. Torino Teacher.†

Law [Downing Prof.
Hazeltine, H. D., Litt.D. Down.

Law, Civil
Buckland, W. W., M.A., LL.D. Cai. Reg. Prof.

Law, English [Reader.
Hollond, H. A., O.B.E., M.A. Trin.

Law, Indian
Macleod, R. H., M.A. Cai. Lectr.*

Law, Internat.
Higgins, A. Pearce, C.B.E., LL.D. Down., K.C. Whewell Prof.

Literature [Leslie Stephen Lectr.
Strachey, Lytton

Logic, v. Philos.

Mathematics
Larmor, Sir Joseph, M.A., Hon. Sc.D., Joh. Lucasian Prof.
Hobson, E. W., Sc.D. Chr. (Pure M.) Sadleirian Prof.
Littlewood, J. E., M.A. Trin. Cayley Lectr.
Berry, A., M.A. King's Lectr.
Bromwich, T. J. I'A., Sc.D Joh. Lectr.
Fowler, R. H., M.A. Trin. Lectr.
Harrison, W. J., M.A. Clare Lectr.
Herman, R. A., M.A. Trin. Lectr.
Lamb, H., M.A., Hon. Sc.D. Trin. Rayleigh and Rouse Ball Lectr.

Medicine and Surgery, v. *infra*

Metallurgy [Goldsmiths' Reader.
Heycock, C. T., M.A. King's

Meteorology, Electrical [Reader.
Wilson, C. T. R., M.A Sid., F.R.S.

Military Subjects
Costello, Br.-Gen E., V.C., C.M.G., D.S.O. Director of Studies.‡

Mineralogy
Lewis, W. J., M.A. Trin. Prof.
Hutchinson, A., O.B.E., M.A. Pemb. Lectr. (Crystallography) and Demr.

Music
Wood, C., Mus D. Cai. Prof.
Rootham, C. B., Mus.D. Joh. (Harmony and Counterpoint) Lectr.

Oriental Langs., v. *infra*

Palæography, v. also Bibliog.
Minns, E. H., Litt.D. Pemb. Lectr.

Palæozoology
Woods, H., M.A. Joh. Lectr

* Apptd. by Board of I.C.S. Studies.
† Apptd. by Spl. Board for Med. and Mod. Langs.
‡ Apptd. by Board of Military Studies. ‖ Retired, Jan. 1925.

Parasitology, v. Biol.

Petrology
Harker, A., M.A. Joh. Reader.
Tilley, C. E., Ph.D. Emm. Demr.

Philology, Comparative
Giles, P., Litt.D. Emm. Reader.

Philosophy, Mental, and Logic
Ward, J., Sc.D., Hon LL.D. Trin. Prof.
Moore, G. E., Litt.D. Trin. (Moral Science) Lectr.
Johnson, W. E., M.A. King's (Moral Sci.) Sidgwick Lectr.

Philos., Moral, v. also Religion
Sorley, W. R., Litt.D. King's Knightbridge Prof.

Philos., Natural
Wilson, C. T. R. (v. Meteorology) Jacksonian Prof.

Physical Chem.
Lowry, T. M., C.B.E., M.A. Trin. H. Prof.
Rideal, E. K., M.A. Trin. H. H. O. Jones Lectr.

Physics, v. also Chem., Philos.
Rutherford, Sir Ernest, O.M., M.A. Trin. Cavendish Prof. of Expl. P.
Thomson, Sir J. J., O.M., M.A., Hon. Sc.D. Trin. Prof.
Searle, G. F. C., Sc.D. Pet. Lectr. & Demr.
Wood, A., M.A. Emm. Lectr.
Thirkill, H., M.A. Clare Demr.
Bedford, T. G., M.A. Sid. Addl. Demr.*
Ellis, C. D., Ph.D. Trin. Asst. Demr.
Appleton, E. V., M.A. Joh. Asst. Demr.
Whetham, W. C. D., M.A. Trin.*
Sleeman, C. M., M.A. Qu.*
Chadwick, J., Ph.D. Cai. Asst. Dir. of Radioactive research

Physiology, v. also Agric.
Langley, J. N., Sc.D. Trin. Prof.
Barcroft, J., C.B.E., M.A. King's Reader.
Hardy, Sir Wm. B., M.A. Cai. Lectr.
Shore, L. E., M.D. Joh. Lectr.
Roberts, Ff., M.D. Clare Junr. Demr.
Parsons, T. R., M.A. Sid. Addl. Demr.
Adrian, E. D., M.D. Trin. Lectr. in Advanced P.

Physiol. of the Senses
Hartridge, H., M.D., Sc.D. King's (also Senr. Demr. in P.) Lectr.

Political Economy, v. also Econ.
Pigou, A. C., M.A. King's Prof.

Portuguese, v. Spanish

Psychology, Exper., v. also Med.-Psych.
Bartlett, F. C., M.A. Joh. (Dir. of the Psych. Lab.) Reader.
Sprott, W. J. H., B.A. Cla. Demr.

Religion, Philosophy of
Widgery, A. G., M.A. Cath. Lectr.

Romance [Reader.
Braunholtz, E. G. W., M.A. King's

Russian
Goudy, A. P., M.A. Clare Lectr.

Sanskrit, v. Oriental

Spanish [Reader.
Kirkpatrick, F. A., M.A. Trin.
Alonso, Don Dámaso Teacher.†
Pereira, Don F. de Arteaga, M.A. Ox. Norman Maccoll Lectr. in Span. and Port.

Statistics [Lectr.
Yule, G. Udny, C.B.E., M.A. Joh.

Surveying and Cartography
Debenham, F., O.B.E., M.A. Cai. R.G.S. Lectr.

* Recognized teacher for medical students.
† Apptd. by Spl. Board for Med. and Mod. Langs.

Theology, v. Div.

Zoology, v. also Med. Entom., Palæoz.
Gardiner, J. S., M.A. Cai. Prof.
Borradaile, L. A., Sc.D. Selw. Lectr.
Balfour-Browne, F., M.A. Cai. Lectr.
Potts, F. A., M.A. Trin. H. Lectr.
Gadow, H., M.A. King's (Morph. of Vertebrates) Reader.
Saunders, J. T., M.A. Chr. (Animal Morph.) Demr.
Gray, J., M.A. King's Demr. (Comp. Anat.).

Engineering

Aeronautical Engineering
Jones, B. M., M.A. Emm. F. Mond Prof.

Electrical Engineering [Reader
Lamb, C. G., M.A., Sc.D.

Mechanism and Appl. Mechanics
Inglis, C. E., O.B.E., M.A. King's Prof.
Peake, A. H., M.A. Joh. Senr. Demr.
Peel, T., M.A. Magd. Demr.
Womersley, W. D., M.A. Emm. Demr.

Mechanical Engineering
Landon, J. W., M.A. Cla. Lectr

Thermodynamics
Lees, S., M.A. Joh. Hopkinson Lectr.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Hygiene, v. Prev. Med., Chem.

Medical Chemistry
Cole, S. W., M.A. Trin. Lectr.

Medical Entomology
Warburton, C., M.A. Chr. Demr.

Medical Jurisprudence
..... Lectr.

Medical Radiology & Electrology
Scales, F. Shillington, M.D. Jes. Lectr.
Stead, G., M.A. Cla. (Physics as applied to M.R.) Lectr.

Medicine
Bradbury, J. B., M.D. Down. Downing Prof
Jones, E. Lloyd-, M.D. Down. Demr.
Copeland, A. J., M.A., M.B., B.Chir. Pemb. Asst. to Prof. of Med.

Pathology
Dean, H. R., M.D. Trin. H. Prof.
Cobbett, L., M.D. Trin. Lectr.
Swann, M. B. R., M.D. Cai. Demr.

Pathology, Special
Strangeways, T. S. P., M.A. Joh. Huddersfield Lectr.

Path. Chem.
..... Lectr.

Pharmacology [Reader.
Dixon, W. E., M.A. Down (Assessor to Reg. Prof. Physic)

Physic
Allbutt, Rt. Hon. Sir T. Clifford, K.C.B., M.D., Hon. LL.D. Cai. Reg. Prof.

Preventive Medicine [Reader.
Graham-Smith, G. S., M.D. Pemb.

Psychopathology [Lectr.
MacCurdy, J T., M.A. Corp.

Surgery
Roderick, H. B., O.B.E., M.D., M.Chir. Emm. Demr.

Vaccination
..... [Teacher.

Members of Hospl. Staff (not included under above subject-headings) approved as Univ. Teachers: J Aldren Wright, M.D. Sid.; J. Griffiths, C.M.G., M.D., M.Ch. King's; A. Cooke, M.A. Trin., M.B.; G. S. Haynes, M.D. King's; W. H. Bowen, M.S.; C. H. Budd, M.A. Cla., B.M.

Oriental Languages

Arabic [Sir T. Adams Prof.
Browne, E. G., M.A., M.B. Pemb.
Bevan, A. A., M.A. Trin.
Lord Almoner's Prof.
'Afífí Abu'l-'Alá Lectr.*

Aramaic
McLean, N., M.A. Chr. Lectr.

Bengali
Samman, H. F., Emm. Lectr.†

Burmese
Hertz, W. A., C.S.I. Lectr.†

Chinese
Giles, H. A., M.A. Trin. Prof.

Hebrew [Reg Prof.
Kennett, R. H., D.D. Qu.

Hindi, Urdu and, [Lectr.†
Phillott, Lt.-Col. D. C., M.A. Cai.

Marathi
Moore, R. A. Leslie, Pet. Lectr.†

Persian [Lectr.
Nicholson, R. A., Litt.D. Trin.

Sanskrit
Rapson, E. J., M.A. Joh. Prof.
Rouse, W. H. D., Litt.D. Chr.
(S. and Pali) Lectr.†

Talmudic
Abrahams, I., M.A. Chr. Reader.

Tamil
Wyatt, J. L., M.A. Chr. Lectr †

Telugu
Parsons, F. C., M.A. Trin. Lectr.†

Turkish
Záfir, 'Abdul Qádir Lectr.*

Sir Robert Rede Lecturer, 1924–25
Hugh Walpole, C.B.E.

University Extension

James Stuart Lectrs.: J. Travis Mills, M.A., and G. P. Bailey, Hon. M.A. 38 other Lectrs., v. pp. 59, 62.

* Apptd. by For. Service Students' Committee.
† Apptd. by Board of I.C.S. Studies.

THE COLLEGES

[College Lecturers are indicated by the names of subjects in italics.]

CHRIST'S COLLEGE. Founded 1505. Master—Sir Arthur E. Shipley, G.B.E., Sc.D., F.R.S.

Fellows: Campbell, S. G., M.A., *Classics,* Bursar; Downs, B. W., M.A., † *Med. and Mod. Langs. and Engl.*; * Grose, S. W., M.A., Librarian; Haddon, A. C., Sc.D., F.R.S. (Reader in Ethnol.); Hobson, E. W., Sc.D., F.R.S. (Prof. of Pure Maths.); * McLean, N., M.A., Prælector, † Orient. Langs., *Hebrew*; Marshall, F. H. A., Sc.D., F.R.S., † Nat. Sc. and Agric. (Reader in Agric. Physiol.); Mercer, J., M.A., F.R.S., *Maths.*; Rackham, H., M.A., *Classics*; * Saunders, J. T., M.A., † Nat. Sc. and Agr.; Valentine-Richards, A. V., M.A., Dean, † *Theol.*; Vines, H. W. C., M.A., M.D., † Med.; Wyatt, T. C., O.B.E., M.A., Steward, † *Mech. Sc.*; Murray, E. G. D., O.B.E., M.A.; Steel, A. B., B.A. Ox., † Hist.; Steen, S. W. P., B.A.

Other Lectrs., etc.: Perrett, G. B., M.A., † Hist.; Rastall, R. H., Sc.D., *Nat. Sc.*; Robinson, E. A. G., B.A., † Econ.; Wheatcroft, W. H., M.A., LL.D., Down., † Law.

CLARE COLLEGE. Founded 1326. Master—W. L. Mollison, M.A., LL.D.
Fellows: Carey, G. V., M.A., Educnl. Secy., Univ. Press; Chadwick

* Tutor. † Director or Supervisor.

H. M., M.A., Elrington and Bosworth Prof. of Anglo-Saxon ; Forbes, M. D., M.A., *Engl.*, Librarian ; Fulford, H. W., M.A. ; Harrison, W. J., M.B.E., M.A., *Maths. and Mech. Sc.*, Finan, Tutor and Steward ; Henderson, H. D., M.B.E., M.A. ; Landon, J. W., M.B.E., M.A., *Mech.Sc.* ; Nock, A. D., B.A., *Classics* ; Priestley, R. E., M.A., † Agr. ; Roberts, Ffrangcon, M.A., M.D., *Physiol.* ; Telfer, W., M.A., † Theol., Asst. Tutor, Dean, and Prælector ; * Thirkill, H., M.A., *Phys. and Chem.* ; Wardale, J. R., M.A. ; Wilson, G. H. A., O.B.E., M.A., Bursar.

Other Lectrs., etc. : Appleton, A. B., M.A., † Anat. ; Appleton, E. V., M.A., † Mineralogy ; Barker, J. W., M.A., † Spanish ; Brindley, H. H., M.A. Joh., *Biol. and Zool.* ; Brooks, F. T., M.A., † Bot. ; Bullough, E. M., M.A., † German ; Dobb, M. H., B.A., † *Econ.* ; Gaskoin, C. J. B., M.A., † Hist. ; Scarborough, H. A., M.A., † Chemistry ; Stokoe, F. W., M.A., † French ; Thomas, H. D., M.A., † Geology ; Pite, A. B., M.A., Architecture ; Wheatcroft, W. H., M.A., LL.D., † Law.

CORPUS CHRISTI COLLEGE. Founded 1352. Master—E. C. Pearce, D.D. ; Fellows : † Butler, Sir Geoffrey, K.B.E., M.A., M.P., Librarian, *Hist.* ; Clark-Kennedy, A. E., M.A., M.D., † *Med.* ; Goodhart, A. L., M.A., † *Law* ; Hoskyns, E. C., M.A., † *Theol.*, Dean of Chapel ; Morris, G. G., M.A., Steward and Prælector, † *Classics* ; Pickthorn, K. W. M., M.A., † *Hist.* ; Pollock, C. A. E., M.A., President, Bursar ; Robinson, E. A. G., M.A., Dean of College ; Sanders, T. R. B., B.A., *Mech.Sc.* ; *† Spens, W., C.B.E., M.A., *Nat. Sc.* ; Thomson, G. P., M.A.

Other Lectrs., etc. : Farren, W. S., M.A., † Mech. Sc. ; Momber, R. M. S. T., M.A., † Mod. Langs. ; Petherbridge, F. R., M.A., † Agric. ; Lyon, T. H., M.A., † Archit. ; Winfield, P. H., LL.D., † Law.

DOWNING COLLEGE. Founded 1800. Master—A. C. Seward, Sc.D., M.A., F.R.S., Prof. of Botany.

Fellows : † Amos, A., M.A., *Agric.* ; † Berry, A. J., M.A., *Chem. and Phys.* ; Bradbury, J. B., M.D., F.R.C.P., Prof. of Med. ; † Harris, D. L., M.A., Librarian Reader in *Law* ; Hazeltine, H. D., Litt D., Prof. of Laws of England ; Kenny, C. S., LL.D. ; Saunders, J. C., M.A. ; † Thomas, H. Hamshaw, M.B.E., M.A., Dean and Steward, *Bot.* ; *† Widdicombe, J. H., M.A., Prælector, *Physiol.* ; Perry, T. G., B.A., *Physics.*

Other Lectrs. and Supervisors : Appleton, A. B., M.D., *Human and Comp. Anat.* ; Barker, J. W., M.A., *Mod. Langs.* ; Brown, B. G., M.A., *Hist.* ; Dobb, M. H., B.A., *Econ.* ; Fox, C., M.A., *Mor. Sc.* ; French, C. H., M.A., *Maths.* ; Gray, J., M.A., *Zool.* ; Morris, G. G., M.A., *Class.* ; Portway, D., M.A., *Engin.* ; Smith, F. B., C.M.G., M.A., Bursar ; Wall, J., B.A., *Classics*, Chaplain ; Webb, H. A., M.A., Trin., *Maths.* ; Wheatcroft, W. H., LL.D., *Law* ; Wyatt, A. J., M.A. Chr., *Med. and Mod. Langs.*

EMMANUEL COLLEGE. Founded 1584. Master — Peter Giles, Litt.D., Reader in Comp. Philol.

Fellows : Allcock, W. B., M.A. ; Attenborough, F. L., M.A., † Engl. ; Bennett, G. T., O.B.E., Sc.D., F.R.S. ; Burnaby, H., M.A., *Divinity*, Dean ; Gardner, R., M.A., *Class.*, Bursar ; * Greenwood, L. H. G., M.A., Prælector, *Class.*, Mod. Langs., Law, Mor. Sc., etc. ; * Hele, T. S., O.B.E., M.A., M.D., *Med., Law*, † Physiol. ; Jones, B. M., M.A., A.F.C., Mond Prof. of Aeronautics ; Lavington, F., M.A., † Econ. ; Line, J., M.A., A.F.C., Steward, † Bot. and Agric. ; Steward, G. C., M.A., *Maths.* ; Wallace, J. C., M.A., † Mech. Sc. ; Welbourne, E., M.A., *Hist.* ; Whitney, J. P., D.D., Prof. of Eccl. Hist. ;

* Tutor. † Director or Supervisor.

*Wood, A., M.A., *Div., Agric., Nat. Sc.*; *Wood, P. W., M.A., Senior Tutor, Librarian, *Maths., Mech. Sc., Hist.*

Other Lectrs., etc.: Brindley, H. H., M.A. Joh., † Biol. and Zool.; Bullough, E., M.A. Cai., † Mod. Langs.; Jeffery, R., B.A., † Mineral.; Johnson, W. E., M.A. King's, † Mor. Sc.; Naylor, E. W., Mus.D., *Music*; Norrish, R. G. W., Ph.D., † Chem.; Henderson, S. T., B.A., † Chem.; Steers, J. A., B.A., Geog.; Woods, H., M.A., F.R.S., Joh., † Geol.; Ziegler, C. H., LL.M., † Law; Hopkinson, A., M.A., M.B., B.Chir., † Anat.

GONVILLE AND CAIUS COLLEGE. Founded 1348. Master—Sir Hugh K. Anderson, M.D., F.R.S.

Fellows: Allbutt, Rt. Hon. Sir T. C., K.C.B., M.D., F.R.S., Prof. of Physic; Bennett, E. K., M.A.; † Brooke, Z. N., M.A., Prælector, *Hist.*; Buckland, W. W., LL.D., Prof. of Civ. Law, President; † Bullough, E., M.A., *Mod. Langs.*, Steward; ‡ Cameron, J. F., M.A., Bursar, *Engin.*; Chadwick, J., Ph.D.; † Cook, S. A., M.A., Litt.D., *Heb. and Syriac, Comp. Study of Religions*; *† Debenham, F., O.B.E., M.A., *Geog.*; Fisher, R. A., M.A.; Fox, H. M., M.A.; † Gallop, E. G., M.A., *Maths.*; Gardiner, J. S., M.A., F.R.S., Prof. of Zool.; † Hardy, Sir Wm. B., M.A., Sec. R.S., *Nat. Sc.*; * Hunkin, J. W., O.B.E., M.A., Dean and Catechist, *Div.*; Lock, C. N. H., M.A.; † McNair, A. D., C.B.E., LL.M., *Law*; Muir, M. M. P., M.A.; Myers, C. S., C.B.E., Sc.D., F.R.S.; Needham, N. J. T. M., B.A.; Okey, T., M.A., Prof. of Italian; † Phear, H. W., M.A., *Engin.*; Prior, E. S., A.R.A., M.A., Prof. of Fine Art; Punnett, R. C., M.A., F.R.S., Prof. of Genetics; Reid, J. S., LL.M., Litt.D., Prof. of Anc. Hist.; Ridgeway, Sir Wm., Sc.D., Prof. of Archæol.; *† Scott, J. E., M.A., *Class.*; *† Stratton, F. J. M., M.A., *Maths.*, Senior Tutor; Swann, M. B. R., M.A., M.B., B.Ch., *Med.*; Tunnicliffe, H. E., B.A.; † Vesey, W. T., M.A., *Class.*; Wallis, Rt. Rev. F., M.A., D.D.; † Wood, C., Mus.D., Prof. of Music; Wood, T. B., C.B.E., M.A., F.R.S., Prof. of Agric.

Other Lectrs. and Directors, etc.: Claye, H., M.A., *Agric.*; Fluchère, H. A. E., Lector in French; Oliver, D. T., LL.M. Trin. H., *Law*; Schneider, G. A. S., M.A., Librarian; Smith, H. E., M.A., Chaplain; Stanners, R. W., M.A., *Econ.*

JESUS COLLEGE. Founded 1496. Master—A. Gray, M.A.

Fellows: * Abbott, E., M.A., Tutor, *Classics*; Barnes, H., B.A., LL.B., *Law*; † Duckworth, W. L. H., M.D., Sc.D., *Nat. Sc.* (Reader in Human Anat.); Duke, W. H., M.A., Steward, Asst. Tutor, *Classics*; Elliott, C. A., M.A., Tutor, Librarian, *Hist.*; Foakes-Jackson, F. J., M.A., D.D.; Gardner-Smith, P., M.A., Dean, *Theol.*; Manning, B. L., M.A., Bursar, *Hist.*; Mills, W. H., M.A., Asst. Tutor, *Nat. Sc.*; Nairne, A., M.A., D.D., *Theology* (Regius Professor of Div.); Pars, L. A., M.A., Prælector, *Maths.*; Quiller-Couch, Sir Arthur T., M.A., Prof. of Engl. Lit.; Watt, J. C., M.A.; Welsh, W., M.A., Asst. Tutor, *Maths.*

Other Directors of Studies: Alston, L., M.A., † *Econ.*; Brittain, F., B.A., † Engl.; King, W. B. R., M.A., † *Geol.*; Braunholtz, E. G. W., M.A. King's, † *Mod. and Med. Langs.*; Lyon, T. H., M.A. Corp., † *Architecture*; Petherbridge, F. R., M.A. Sid., † *Agric.*; Shove, G. F., M.A., † *Econ.*; Tillyard, E. M. W., O.B.E., M.A. Jes., † *Engl.*; Womersley, W. D., M.A. Emm., † *Mech. Sc.*; Wyatt, A. J., M.A. Chr., † *Mod. and Med. Langs.*

KING'S COLLEGE. Founded 1441. Provost — Sir Walter Durnford, G.B.E., LL.D.

Fellows: Adair G. S., B.A.; Adcock, F. E., M.A., O.B.E., *Classics*;

Barcroft, J., M.A., F.R.S., C.B.E., Asst. Tutor, *Nat. Sc.* (Reader in Physiol.); Berry, A., O.B.E., M.A., Asst. Tutor, *Maths.*; Beves, D. H., B.A., Birch, F. L., M.A., O.B.E., *Hist.*; Braithwaite, R. B., B.A.; Brooke, A. E., D.D., *Div.*, Prof. of Div.; Bury, J. B., M.A., Prof. of Mod. Hist.; Blackett, P. M. S., B.A.; Cholerton, A. T., M.A.; * Clapham, J. H., Litt.D., C.B.E., *Hist.*; Corbett, W. J., M.A.; Dickinson, G. L., M.A.; Durnford, H. G. E., M.A., Prælector and Bursar; Grant-Ives, C. E., M.A.; Gray, J., M.A., *Nat. Sc.*, Dean; Hartridge, H., M.A., M.D., Sc.D.; Heycock, C. T., M.A., F.R.S., *Nat. Sc.* (Reader in Metallurgy); Hill, A. V., O.B.E., Sc.D., F.R.S.; Hollingworth, H., M.A.; Inglis, C. E., M.A., O.B.E., Prof. of Mechanism; Johnson, W. E., M.A.; Keynes, J. M., M.A., C.B., Bursar, *Econ.*; Lubbock, A., B.A.; Lucas, F. L., M.A., Librarian, *Engl.*; Macaulay, W. H., M.A., Vice-Provost; McCombie, H., M.A., Asst. Tutor, *Nat. Sc.*; Mann, A. H., Hon. M.A., Mus.D.; Milner-White, E., M.A., Dean and Chaplain; Ord, B., Mus.B.; Phillpotts, S. B., M.A.; Pigou, A. C., M.A., Prof. of Pol. Econ.; Ramsey, F. P., B.A., *Maths.*; Reddaway, W. F., M.A., *Hist.*; Richmond, H. W., M.A., F.R.S., *Maths.*; Scholfield, A. F., M.A., Univ. Librarian; Sheppard, J. T., M.B.E, M.A., Asst. Tutor, *Classics*; Sills, H. H., M.A., Asst. Tutor, *Classics*; Sorley, W. R., Litt.D., Prof. of Mor. Philos.; Tilley, A. A., M.A.; Turner, L. B., M.A., Asst. Tutor, *Mech. Sc.*; Walston, Sir Charles, M.A., Litt.D.; Wedd, N., M.A.; Wollaston, A. F. R., M.A., B.Ch., D.S.C.

Other Lectrs., etc.: Carr, F., LL.D., † Law; Shove, G. F., M.A., *Econ.*; Squire, E. A., M.A., Chaplain; Stokoe, F. W., M.A., *Mod. Langs.*

MAGDALENE COLLEGE. Founded 1542. Master—A. C. Benson, C.V.O., LL.D., † *Hist.*

Fellows: Clark, F. H. H., M.A., *Hist.*, *Theol.*, Chaplain; Fox, C. F., Ph.D.; Gaselee, S., C.B.E., M.A., *Palæog.*; King, W. B. R., O.B.E., M.A., *Nat. Sc.*; Morshead, O. F., M.A., Librarian and Asst. Steward; Nuttall, G. H. F., Sc.D., F.R.S., Prof. of Biol., † Med.; Peel, T., M.A., Bursar and Steward, *Engin.*; Peskett, A. G., M.A.; * Ramsey, A. S., M.A., President, *Maths.*; Salter, F. R., M.A., Dean, *Hist.*; Martin, B. K., B.A.; Turner, F. M. C., B.A.; Vernon Jones, V. S., M.A., Asst. Tutor and Prælector, † *Classics.*

Other Directors of Studies, etc.: Adie, R. H., M.A., † Agric.; Petherbridge, F. R., M.A., † Agric.; Vulliamy, E. O., M.A., † Mod. Langs.; Brindley, H. H., M.A., † Biol.; Florence, P. S., M.A., *Econ.*; Winfield, P. H., LL.D., † Law; Foster, W. H., M.A., † Chem.; Richards, I. A., M.A., *Engl.* and *Mor. Sc.*

PEMBROKE COLLEGE. Founded 1347. Master—W. S. Hadley, LL.D. *Classics and Mod. Hist.*

Fellows: Attwater, A. L., Prælector, M.A., *Engl.*; Bethune-Baker, J. F., M.A., D.D., Prof. of Div.; Birtwistle, G., M.A., Assistant Tutor, *Maths.*; Browne, E. G., M.A., M.B., F.R.C.P., Prof. of Arabic, President; Comber, H. G., M.A., Treasurer (Estates), *Mod. Langs.*; Hutchinson, A., O.B.E., M.A., F.R.S., Asst. Tutor, *Nat. Sc.*; * Lawson, J. C., O.B.E., M.A., *Classics and Mod. Greek*; McCleland, N. P. K. J. O'N., M.A., Bursar (Home), *Nat. Sc.*; Minns, E. H., M.A., Litt.D., Librarian, *Russian*; Pennell, V. C., M.A., M.B., B.Ch., F.R.C.S., † Med., *Nat. Sc.*; Spittle, J. T., O.B.E., M.A., † Mech. Sc., Asst. Tutor, Tutorial Bursar; Whibley, L., M.A., *Anc. Hist.*; Wynn, H. E., M.A., Dean, Asst. Tutor, *Hist.*

Other Lectrs., etc.: Dobb, M. H., M.A., † Econ.; Vulliamy, E. O., M.A., *Mod. Langs.*; Ziegler, C. H., LL.M., *Law.*

PETERHOUSE OR ST. PETER'S COLLEGE. Founded 1284. Master—Rt. Hon. Lord Chalmers, P.C., G.C.B., M.A., LL.D.

* Tutor. † Director or Supervisor.

Fellows: Barnes, W. E., D.D. (Prof. of Div.); Butterfield, H., B.A.; Dickson, J. D. H., M.A.; Francis, E. C., B.A., † *Maths.*, Senior Bursar, Librarian; Gillet, C. S., M.A., † Theol., Dean, Chaplain, Junior Bursar and Prælector; Hallward, B. L., B.A., † *Classics*, Steward; Lubbock, R., M.A., † Mech. Sc., Asst. Tutor, Tutorial Bursar; Temperley, H. W. V., M.A., O.B.E., Asst. Tutor, † *Hist.* (Reader in Mod. Hist.); * Vellacott, P. C., M.A., † *Hist.*; Walker, T. A., M.A., LL.D.

Other Lectrs., etc.: Debenham, F., M.A., † Geog.; Girdlestone, C. M., M.A., † Mod. and Med. Langs.; Guillebaud, C. W., M.A., † Econ.; McCance, R. A., B.A., † Med.; Scarborough, H. A., B.A., † Nat. Sc.; Willey, B., M.A., † Engl.; Winfield, P. H., LL.D., † Law; Wright, C. W. B., M.A., † Agric.

QUEENS' COLLEGE. Founded 1448. President—T. C. Fitzpatrick, D.D., † Nat Sc.

Fellows: Browne, A. D., M.A., Bursar, † *Mech. Sc.*; Cook, A. B., M.A., *Classics* (Reader in Class. Archæol.); Gray, J. H., M.A., Vice-President and Catechist, *Classics*; Kennett, R. H., D.D., Prof. of Hebrew; Laffan, R. G. D., M.A., Chaplain, *Engl. Hist. and Lit.*, † Hist.; Munro, A., M.A., Bursar and Steward, *Maths.*; Potts, L. J., B.A., † Engl.; * Sleeman, C. M., M.A., *Nat. Sc.*; Wood, C. T., M.A., Dean and Chaplain, *Div. and Hebrew.*

Other Directors of Studies, etc.: Momber, R. M. S. T., M.A., † Mod. Langs.; Carr, F., LL.D., † Law; Plaistowe, F. G., M.A., Librarian.

ST. CATHARINE'S COLLEGE. Founded 1473. Master—The Rt. Rev. T. W. Drury, D.D., † *Theol.*

Fellows: Biffen, Sir R. H., M.A., F.R.S., Prof. of Agr. Bot.; Carr, E. T. S., M.A.; Chaytor, H. J., M.A., Asst. Tutor, Dean, Librarian, † *Mod. Langs.*; Jones, W. H. S., M.A., Bursar and Steward, † *Class., Anc. Hist.*; Newman, L. F., M.A., † *Agric.* and Nat. Sc.; Portway, D., M.A., † *Mech. Sc.*; * Rushmore, F. M., M.A., Senr. Tutor, President and Prælector, † *Hist.*; Withers, J. J., C.B.E., M.A.

Other Lectrs., etc.: Alston, L., M.A., † Econ.; Carr, F., LL.D., † Law; Fox, C., M.A., † Mor. Sc.; Hoskyns, E. C., M.A., † Theol.; Munro, A., M.A., † Maths.; Naylor, E. W., Mus.D., † Music; Perrett, G. B., M.A., † *Hist.*; Roderick, H. B., M.D., M.Ch., † Med.; Steers, J. A., M.A., Junior Dean, † Geog.; Willey, B., M.A., † English.

ST. JOHN'S COLLEGE (1511). Master—Sir Robert F. Scott, M.A.

Fellows: Appleton, E. V., M.A., † Physics and Mineral.; * Armitage, B. F., M.A., † Anat.; Arundell, D. D., B.A., Mus.B.; Baker, H. F., Sc.D., F.R.S., Prof. of Astron.; Bartlett, F. C., M.A., † Mor. Sc.; * Benians, E. A., M.A., † *Hist.*; Blackman, F. F., M.A., F.R.S.; Briggs, G. E., M.A., † Botany; Bromwich, T. J. I'A., M.A., Sc.D., F.R.S., Prælector in *Mathematics*; Charlesworth, M. P., M.A., *Classics*; Coulton, G. G., M.A.; Creed, J. M., M.A., Dean, † *Theol.*; Cunningham, E., M.A., Steward, Tutorial Bursar, † *Maths.*; Engledow, F. L., M.A., † Agric.; Evans, I. L., B.A.; Foxwell, H. S., M.A., † Econ.; Glover, T. R., M.A., *Classics*; Greaves, W. H. M., B.A.; Harker, A., M.A., F.R.S.; Hartree, D. R., M.A.; Heitland, W. E., M.A.; Howard, Sir Henry F., K.C.I.E., C.S.I., Senior Bursar; Jeffreys, H., M.A., *Maths.*; Larmor, Sir Joseph, Hon. Sc.D., F.R.S., M.P., Prof. of *Maths.*; Lees, S., M.A.; ‡ Liveing, G. D., Sc.D., F.R.S., President; MacAlister, Sir Donald, Bart., M.A., M.D.; Marr, J. E., Sc.D., F.R.S., Prof. of Geol.; Newman, M. H. A., M.A.; Palmer, W. G., M.A., † Chem.; † Prior, O. H. P., M.A., Prof. of French; Rapson, E. J., M.A., Prof. of *Sansk.*; Raven, E. E., M.A., Chaplain;

* Tutor. † Director or Supervisor. ‡ *Ob.* 26.12.24.

Rootham, C. B., Mus.Doc., Organist, † *Music*; Shore, L. E., O.B.E., M.P., Junior Bursar, † Med. and Physiol.; * Sikes, E. E., M.A., † *Classics*; Stevens, A. J., M.A.; Tanner, J. R., Litt.D., *Hist.*; Wagstaff, J. E. P., M.A.; Ward, J. T., M.A.; Watkins, A. E., B.A.; Webb, R. R., M.A.; White, F. P., M.A., *Maths.*; Wilson, J. T., M.A., Prof. of Anat.; Winfield, P. H., LL.D., † *Law*; * Wordie, J. M., M.A., † Geog.; Yule, G. U., M.A.

Other Lectrs., etc.: Brindley, H. H., M.A., † Biol. and Zool.; Peake, A. H., M.A., † Mech. Sc.; Bennett, H. S., B.A., † Engl.; Girdlestone, C. M., B.A., † Mod. and Med. Langs.; Sherrington, Sir Charles S., O.M., G.B.E., F.R.S., *Physic* (Linacre); Woods, H., M.A., F.R.S., † Geol.; Previté-Orton, C. W., M.A., Prælector and Librarian.

SIDNEY SUSSEX COLLEGE. Founded 1596. Master—G. A. Weekes, M.A.

Fellows: Carrell, J. A., B.A., Research Fellow; Davenport, A. H., M.A., Bursar, † Mech. Sc.; Hackforth, R., M.A., *Classics*, Prælector; * Knox-Shaw, T., M.A., *Maths.*; McNeile, A. H., M.A., D.D.; Mayall, R. H. D., M.A., *Maths.*; Passant, E. J., M.A., *Hist.*, Steward; Pope, Sir Wm. J., K.B.E., M.A., F.R.S., Prof. of Chem.; Robson, H. C., M.A.; Smith, B. T. D., M.A., *Theol.*, Dean; Thacker, C. R. A., M.A., M.D., B.Ch., *Nat. Sc.*, † Biol. and Med.; Wilson, C. T. R., M.A., F.R.S. (Reader in Elec. Meteorol.).

Other Directors of Studies: Mills, W. H., M.A. Jes., Chem.; Petherbridge, F. R., M.A., Agric.; Wheatcroft, W. H., LL.D. Down., Law; Debenham, F., M.A., Geog.; Lyon, T. H., M.A. Corp., Archit.; Sargant-Florence, P.; Sells, A. L., B.A., French; Tillyard, E. M. W., M.A., Engl.; King, W. B. R., M.A., Geol.

TRINITY COLLEGE. Founded 1546. Master—Sir Joseph J. Thomson, Hon. Sc.D., O.M., F.R.S. (Prof. of Physics).

Fellows: Adrian, E. D., M.A., M.D., F.R.S., Director of Medical Studies, *Nat. Sc.*; Aston, F. W., Sc.D., F.R.S.; Ball, W. W. R., M.A.; Bevan, A. A., M.A., *Oriental Langs.*; Boughey, A. H. F., M.A.; Broad, C. D., Litt.D., *Mor. Sc.*, Philos. of the Sciences (Tarner); Burkill, J. C., B.A.; Burnaby, J., M.A., Junr. Bursar, Steward, and Prælector; Butler, J. R. M., O.B.E., M.V.O., M.A., Lecturer in *Hist.*; Buxton, P. A., M.A.; Capstick, J. W., M.A., O.B.E.; Cherry, T. M., Ph.D.; Cornford, F. M., M.A., *Classics*; de Navarro, J. M., M.A.; Dean, W. R., B.A.; Duff, J. D., M.A.; * Dykes, F. J., M.A., *Mech. Sciences*; Eddington, A. S., M.A., F.R.S., Prof. of *Astron.*; Ellis, C. D., Ph.D., *Nat. Sc.*; Fletcher, Sir Walter M., M.D., Sc.D., K.B.E., F.R.S.; Fowler, R. H., O.B.E., M.A., *Maths.*; Frazer, Sir James G., O.M., Hon. Litt.D., F.R.S., *Anthropology*; Glaisher, J. W. L., Sc.D., F.R.S.; Glazebrook, Sir Richard T., M.A., K.C.B., F.R.S.; Glauert, H., M.A.; * Harrison, E., M.A., *Classics*; Henry, D. C., M.A.; Herman, R. A., M.A.; Hicks, R. D., M.A.; Hollond, H. A., D.S.O., O.B.E., M.A., LL.M., Dean of College, Reader in *Engl. Law*; Hopkins, Sir F. G., M.A., F.R.S., Prof. of Bio-Chem.; Housman, A. E., M.A., Prof. of Latin; Ingham, A. E., B.A.; Innes, H. McL., M.A., Senior Bursar; Kirkpatrick, Very Rev. A. F., D.D.; Kitson-Clark, G. S. R., B.A.; Langley, J. N., Sc.D., F.R.S., Prof. of Physiol.; * Lapsley, G. T., M.A., *Hist.*; Laurence, R. V., C.V.O., M.A., *Hist.*; Lennox-Conyngham, Sir Gerald P., M.A., F.R.S., Prælector in Geodesy; Littlewood, J. E., M.A., F.R.S., *Maths.*; ‡ McTaggart, J. McT. E., Litt.D.; Marshall, T. H., M.A.; Milne, E. A., M.A., *Maths.*; Neill, S. C., B.A.; Newall, H. F., M.A., F.R.S., Prof. of Astro-Physics; Nicholas, T. C., O.B.E., M.A., *Nat. Sc.*; Parry, R. St. J., D.D., Vice-Master; Pearson, A. C., Litt.D., Prof. of Greek; Pollard, S., M.A., *Mathematics*; Post-

grte, J. P., Litt.D.; Proudman, J., M.A.; Pye, D. R., M.A., *Mech. Sc.*; Quastel, J. H., Ph.D.; Ritchie, A. D., M.A.; Robertson, D. H., M.A., *Econ.*; Robertson, D. S., M.A., *Classics*; Roughton, F. J. W., M.A.; Rutherford, Sir Ernest, O.M., M.A., F.R.S., Cavendish Prof. of Experim. Physics; Salt, H. E., LL.B., *Law*; Sedgwick, R. R., M.A.; Simpson, F. A., M.A., *Hist.*; Stewart, H. F., D.D., Dean of Chapel, Prælector in French; Struckmeyer, O. K., B.A.; Taylor, G. I., M.A., F.R.S.; Taylor, H. M., M.A., F.R.S.; Tennant, F. R., D.D., *Theol.*; Ward, Jas., Sc.D., Hon. LL.D., Prof. of Mental Philos. and Logic; Whetham, W. C. D., M.A., F.R.S.; Whitehead, A. N., Sc.D., F.R.S.; * Winstanley, D. A., M.A., *Hist.*

Other Lectrs., etc.: Abercrombie, L., *Engl. Lit.* (Clark); Adams, H. M., M.A., Librarian; Bartlet, J. V., *Eccles. Hist.* (Birkbeck); Murry, J. M., *Engl. Lit.* (Clark); Nosworthy, F., *Mil. Hist.* (Lees Knowles); Winfield, P. H., LL.D., *Law*; Loiseau, J., *French.*

TRINITY HALL. Founded 1350. Master—H. Bond, LL.D, *Law.*

Fellows: Angus, C. F., M.A., Librarian, Asst. Tutor, *Classics*; Bell, W. G., M.A; Campbell, Hon. I M., D.S.O., M.A., Bursar, † *Agric.*; * Chase, G. A., M.A., Vice-Master, Senior Tutor, Dean, and Prælector, *Div.*; Crawley, C. W., B.A., *Hist.*; Dean, H. R., M.D., Prof. of Pathology; Hayes, R. A., M.A., *Engin.*; Oliver, D. T., LL.M., *Law*; Potts, F. A., M.A., Asst. Tutor, *Nat. Sc. and Med.*; Rendell, W. R., M.A.; Rideal, E. K., M.B.E., M.A., † *Chem. and Phys.*

Other Lectrs.: Sheldon, F. H., M.A., Chaplain; Turner, J. W. C., M.A., *Law.*

SELWYN COLLEGE PUBLIC HOSTEL. Founded 1882. Master—J. O. F. Murray, D.D.

Fellows: * Borradaile, L. A., Sc.D., *Nat. Sc.*, † Med.; * Jordan, W. E., M.A., Vice-Master, *Classics, Hist.*; Knott, H. C., M.A., Prælector and Bursar, *Maths.*; * Marsh, F. S., M.A., Dean, Librarian, *Theol.*; Perrett, G. B., M.A., *Hist.*; Williams, W. N., M.A., LL.B., *Classics*, † Law; Durrant, P. J., B.A., *Nat. Sc.*; Peacey, J. R., B.A., Junior Dean and Precentor, *Theol.*

Other Lectrs., etc.: Pennell, V. C., M.A., † Anat.; Wood, C., Mus.D., † Music; Wyatt, A. J., M.A., † Med. and Mod. Langs.; Wyatt, T. C., M.A., † Engin.; Ziegler, C. H., M.A., † Law.

NON-COLLEGIATE STUDENTS: FITZWILLIAM HOUSE. Established 1869. Censor—Thatcher, W. S., M.A.

Directors of Studies: Attenborough, F. L., M.A., Engl.; Barker, J. W., Ph.D., Med. and Mod. Langs.; Cohen, J. L., M.A., Econ.; The President of Queens', Nat. Sc.; Foster, W. H., M.A., Chem. and Physics; Fox, C., M.A., Mor. Sc.; Gaskoin, C. J. B., M.A., *Hist.*; Goudy, A. P., M.A., Med. and Mod. Langs.; Gray, J., M.A., Zool.; Harvey, W., M.A., Asst. Censor, Bursar and Chaplain; Hayes, R. A., M.A., Mech. Sc.; Hughes, H. M., D.D. (Lond.), Theol.; Johnson, E. W., B.D., *Theol.*; Joseph, C. G., M.A., Geog.; King, W. B. R., M.A., Geol.; Munsey, S. W. U., B.A., Agric.; Reddaway, W. F., M.A., Med. and Mod. Langs.; Shepherdson, J. F., M.A., Mus.B., Music; Vernon Jones, V. S., M.A., Classics; Vines, H. W. C., M.A., Med.; Wadham, S. M., M.A., Bot.; Winfield, P. H., LL.D., Law; Wyatt, A. J., M.A., Med. and Mod. Langs.

WOMEN'S COLLEGES recognized by the University:

GIRTON COLLEGE. Founded 1869. Mistress—Miss B. S. Phillpotts, O.B.E., Litt.D. Dub.

* Tutor † Director or Supervisor.

Directors of Studies: F. E. Cave-Browne-Cave, M.A. Dub. (Maths.); J. R. Bacon (Classics); E. M. M. Whetnall, M.A. Lond. (Moral Sc.); M. B. Thomas (Natural Sc.); M. G. Jones, M.A., N.U.I. (Hist. and Law); K. T. Butler (Mod. and Med. Languages); M. Tappan, Ph.D. Col. (Econs.); H. M. R. Murray, M.A. Dub. (English and Philology), Vice-Mistress; Resident Lectr. in Maths.: Mrs. Veitch. Asst. Lectr. in French: Mlle. R. M. Chavannes.

Bursar—Miss E. M. Allen. Secy.—Miss M. Clover, M.A. Dub. Junior Bursar—Miss P. K. Leveson, M.A. Dub. Librarian and Registrar of the Roll—Miss E. S. Fegan, M.A. Dub. Research Fellows—see Appendix XXIV. (1.).

NEWNHAM COLLEGE. Founded 1871. Principal—Miss J. P. Strachey, M.A. Dub.

Vice-Principal and Tutor—A. B. Collier, M.A. Dub. (Old Hall); Tutors—Mrs. Palmer (Peile Hall); M. Steele Smith (Clough Hall), Lectr. in Engl.; E. M. Chrystal, M.A. Edin. (Sidgwick Hall), Junr. Bursar.

Other Lectrs.: L. M. Swain (Maths.); H. Richardson (Classics); E. R. Saunders (Botany); G. L. Elles, D.Sc. Dub. (Geol.); J. M. W. Slater, D.Sc. Lond. (Chem. and Physics); A. M. Cooke, M.A. Manc. (Hist.); Anna C. Paues, B.A. Dub., Ph.D. Upsala (English); E. M. Whetnall (Moral Sc.); M. Tappan (Econ.). Bursar—Mrs. Lacy. Registrar of the Roll—E. M. Sharpley.

GENERAL INFORMATION

CONSTITUTION — COLLEGES — MATRICULATION — ADVANCED STANDING, AFFILIATION—INCORPORATION—INDIAN STUDENTS—TERMS—DEGREES—ARTS—DIVINITY—LAW—MEDICINE—MUSIC—SC.D., LITT.D.—DIPLOMAS—TRAINING FOR CIVIL SERVICES—MILITARY INSTRUCTION—TRAINING OF TEACHERS—TRAINING FOR HOLY ORDERS—RESEARCH STUDENTS—SCHOLARSHIPS — EXPENSES — APPOINTMENTS — WOMEN — LIBRARY — MUSEUMS, ETC.—OBSERVATORY—LOCAL EXAMINATIONS—UNIVERSITY EXTENSION—PUBLICATIONS.

The SENATE, consisting, generally speaking, of all Masters of Arts and Masters of Laws who have retained their membership of the Univ. by the fulfilment of prescribed formalities and payment of proper dues, has full power to legislate for the Univ. subject to the Univ. Statutes, and allows degrees, appoints most of the Univ. officers, and elects the 2 members who represent the Univ. in the House of Commons.

The executive authority of the Univ. rests in theory with the Chancellor, but as he is by custom a non-resident officer, it devolves in practice upon his deputy, the Vice-Chancellor, who is appointed every year from among the Heads of Colleges. With the Vice-Chancellor is associated a Council of 16 members known as the *Council of the Senate*, which is elected under certain restrictions by (practically) the resident part of the Senate—known as the *Electoral Roll*. This Council, besides its executive position, has also an important position in respect of legislation, as no Grace can be put to the Senate unless it has first received the sanction of the Council. The Univ. appoints *Syndicates* to administer various departments of Univ. business and *Special Boards of Studies* to superintend Univ. teaching and examns. in the various subjects of study. The system of teaching as a whole is under the supervision of a *General Board of Studies*, on which all the more important subjects of study are represented. All proposals involving the spending of money are submitted by the Council to the *Financial Board*.

The COLLEGES are corporate bodies distinct from the Univ. They possess and manage their own property; they are self-governing and elect their own officers; and for nearly all purposes they are independent of Univ. control. The connexion between them and the Univ., however, is of the most intimate kind. The Univ. is in part supported by contributions from them, and without any formal agreement to that effect the Univ. and the Colls. do as a matter of fact recognize each other's regulations. Nearly all the members of the Univ. belong to the Colls., and all the members of the Colls. belong to the Univ. The work of teaching is divided between the Univ. Profs., Lectrs., etc., and the more numerous body of College Lectrs.

NON-COLLEGIATE STUDENTS reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by becoming members of Fitzwilliam House, obtain opportunities for taking part in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

MATRICULATION is effected by signing in a register following upon admission as a member of a Coll. or as a Non-Collegiate student; the Univ. does not require any examn. to be passed before Matricn., but an applicant for admission to a Coll. must, in general, satisfy its authorities by passing the Coll. Entrance examn. or otherwise that his attainments are sufficient to enable him to pass the Univ. examns. in due course, and ultimately to proceed to a degree. In effect the *Previous* examn. (v. *infra*) takes the place of the Matricn. examn. of other Univs., and the Senate has approved (June 13, 1924) a Statute making it (or an equivalent) a condition precedent to matriculation except for duly admitted research students and other persons or classes of persons approved by the Council of the Senate.

For admission as a member of a Coll. or as a Non-Coll. student application should be made to the proper officer, namely, the Senior Tutor, Christ's, Cai., St. John's; the Tutor, Clare, Cath., Corp., Down., Magd., Pet., Sid.; one of the Tutors, Trin. or Trin. H.; the Provost or Tutor, King's; the President, Queens'; the Bursar, Selwyn; the Master of any of the other Colls.; the Censor, Fitzwilliam House (Non-Coll. students). It is important for those who wish to have rooms in Coll. to apply for admission a long time beforehand.

As regards *Colonial and Foreign students*, see Appendix XXIII.

ADMISSION TO ADVANCED STANDING. I. A graduate with First Class Honours (or equivalent record) * or—provided that he passed, when qualifying for his degree, in English, 2 other languages, one of which is either Latin or Greek,† and Maths.—with Second Class Honours (or equivalent record) ‡ of an approved university || at which he has attended classes not less than 3 years, will be accepted as an *Affiliated Student*, and will then be entitled to (1) be exempt from the Previous Examn.; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of all provisions respecting the standing of candidates for (*a*) Tripos examns., or for degrees in Medicine, Surgery, or Music, and (*b*) Degrees other than the ordinary B.A. Degree or Degrees conferred under the regns. for Research Students; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

* In U.S.A., generally speaking, graduation in the first sixth of his class with evidence of exceptional ability in some subject.

† Arabic, Chinese, Sanskrit, or Pali is accepted in lieu of 2 other languages in the case of a native of Asia or Africa not of European descent.

‡ In U.S.A., generally speaking, graduation in the first half of his class.

|| V. list in Appendix XXIII.

II. Students at an *Affiliated Local Lectures Centre* (at present Exeter, Leicester, Southport) will be admitted to Nos. (2) and (3) of the above privileges provided that they have (*a*) attended a series of courses of lectures and classes for 6 terms, extending over such period of years as may be approved by the Syndicate, in one of the following groups: A, Natural, Physical, and Math. Science; B, History, Pol. Econ., Mental Science, Literature, Art; (*b*) attended in each of 2 terms a course of lectures in the other of the groups A, B; (*c*) satisfied the examiners in the examn. held after each course of lectures.

INCORPORATION. Students who before admission as members of this Univ. have kept terms by *bona fide* residence at Ox. or Dub. are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb.

ADVISER OF INDIAN STUDENTS: W. S. Thatcher, M.A., Fitzwilliam House, Trumpington St., Secy., Intercollegiate Indian Students' Committee.

TERMS. In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of 2½ miles' radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin: Jan. 14, Apr. 20, Oct. 13, 1925; Jan. 15, Apr. 20, Oct. 12, 1926; end—Mar. 14, June 11, Dec. 11, 1925; Mar. 15, June 11, Dec. 10, 1926.

DEGREES. B.A., M.A., M.Litt., Litt.D., M.Sc., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Chir., M.Chir., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

ARTS. The qualifications for the B.A. are: (i.) 9 terms' residence; (ii.) passing or being exempted from the *Previous* examn.; (iii.) passing the examns. for the ordinary degree or a Tripos examn.; (iv.) (for the ordinary degree) a certificate of diligent study.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. *supra*).

(ii.) The ***Previous*** examn. includes Latin or Greek, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details, see Appendix XXI.

Exemption from (ii.) can be obtained by students who hold certain certifs. granted by various Univs. of the U.K., or by the Scotch Education Dept., or by certain Australasian, S. African, and European authorities (v. App. XXIII.); such exemption is also granted to students entitled to the privileges of affiliation.

As regards (iii.), the ordinary B.A. is obtained by qualifying in 5 subjects of which 3 at least must be "principal" and 1 at least must be chosen from each of 2 groups. The principal subjects are—in Group I.: Bible, Church Hist., Engl., Gk., Lat., Fr., Ital., Span., Ger., Rus., Geog., Hist. I., Hist. II., Econ. I., Econ. II., Moral Philos., Psych., Law I., Law II., Educn., Music, Mily. Subjects I., History of Art; in Group II.: Maths., Physics, Chem., Applied Chem., Metal., Bot., Zool., Physiol., Geol., Geog., Engin. I., Engin. II., Mily. Subjects II. There are 4 subsidiary subjects in each group.

Students of ***Agriculture*** and allied subjects may proceed to the ordinary B.A. by means of certain courses dealing with their scientific and practical sides, and including also prescribed literary training.

The Honours B.A. is obtained by passing in the following Triposes:

Anthropol., Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Med. and Mod. Langs., Mor. Sc., Nat. Sc., Oriental Langs., Theol.

A Bachelor may be admitted *Inceptor* in Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his *inauguration* (which occurs on Dec. 30 following admission to the title of a degree). The Inceptor is *created* M.A. on June 30 in each year.

DIVINITY. A M.A. or LL.M. proceeds to the B.D. on or after the 11th of June in the 7th year from his *creation*, either (1) by submitting an original dissertation composed by himself in Latin or English on some subject connected with Biblical Criticism, Exegesis, or History, or with the Evidences of Christianity, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his Dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 5 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

LAW. A student who has kept 9 terms and obtained Honours in both parts of the Law Tripos or Honours in some other Tripos and subsequently Honours in either part of the Law Tripos is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained honours in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the Honours standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. A LL.B. who has fulfilled certain conditions may be admitted *Inceptor* in Law at the end of 6 yrs. from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his *inauguration*. A M.A. who has fulfilled these conditions may also be admitted Inceptor in Law. A LL.M. who makes an original contribution to the advancement of the science or study of Law may be admitted LL.D. 5 yrs. after *creation*.

MEDICINE. The qualifications for the M.B. and B.Chir. are: (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous* examn. (v. *supra*); (iii.) 5 yrs.' Medical study; (iv.) passing in due order 3 examns. and presenting an approved thesis. Admission to the 2nd M.B. examn. is conditional on proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the 3rd M.B. is conditional on proof of 3 yrs. of hospl. practice, 5 yrs.' Medical study, and diligent attendance on prescribed courses of instruction and practical work. A M.B. in the 9th term after *inauguration* (v. *supra*) and a M.A. in the 12th after *creation* may be admitted M.D. on submission of a thesis or dissertation, but the M.A. must have attended lectures and hospl. practice and passed examns. as required for the M.B. A B.Chir. after 3 yrs. from inauguration may be admitted Inceptor in Surgery and so by creation to the M.Chir. degree. A M.A. may be admitted also if legally qualified to practise Surgery. A candidate for the M.Chir. must either pass the examn. for the degree or be exempted therefrom in consideration of a contribution to the advancement of the Science or Art of Surgery. Addenbrooke's Hospl., containing 192 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B.: 1st examn. for B.Sc. in Agr. of Univ. of S. Africa (subject for subject); 1st examn. for medical degrees in Univ. of Adel., Melb., or Syd., or 1st examn. in Science in Physics, Chem., and Biol. in Univ. of Queensland, W. Aust., or Tasm.

MUSIC. The qualifications for the Mus.B. include (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous* examn.; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since *inauguration* (v. *supra*) as Mus.B. and after passing the prescribed examn.

Persons not less than thirty years of age who have graduated in some Faculty of the Univ. and given proofs of distinction in musical composition may be candidates for the Mus.D.

The Sc.D. and LITT.D. Any person may be a candidate for either degree who is a M.A., LL.M., or M.Ch. of not less than 5 yrs.' standing or a M.B. of not less than 7. These degrees are granted in consideration of original contributions to the advancement of Science or Learning.

DIPLOMAS. In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 5 Diplomas which are open to other persons—in Geog., in Psych. Med., in Pub. Health, in Med. Radiology and Electrology, and in Tropical Med. and Hygiene; and 8 which are almost entirely restricted to members of the Univ.—Agric. Sc., Anthrop., Class. Archæol., Education, Forestry, Horticult. Sc., Hygiene, and Oriental Languages, the diplomas in Anthrop. and Orient. Langs. being open to non-members in certain exceptional circumstances only. Among overseas Mental Hospitals recognized for clinical work for the Dip. Psych. Med. are the Pretoria and the Gladesville (Sydney). *Certificates*, open to members of the Univ. only, are conferred in Architecture (open to graduates only) and in certain foreign languages. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The Diploma in Hygiene, established in 1921 in response to a communication from the League of Red Cross Societies at Geneva, is intended for *foreigners* who possess a qualification to practise medicine or surgery which, though not registrable in Great Britain, is recognized by the authorities of their own countries. The full course must extend over 9 months. The requirements are similar to those demanded for the English D.P.H. except that no detailed knowledge of English public health laws is required.

The Univ. makes provision for training candidates for the Higher CIVIL SERVICES; Probationary Vice-Consuls; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service and for service under the Govts. of Egypt and the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A.), and from H. A. Roberts, M.A., Univ. Offices, St. Andrew's St., who is Secy. to the Board of I.C.S. Studies, Foreign Service Students Committee, Director of Studies for the General Consular Service, and Appointments Board.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit. Studies (Secy.—Hon. I. M. Campbell, D.S.O., Trin. H.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces. See Appendix I.

The TRAINING OF TEACHERS is under the management of the Teachers Training *Syndicate*, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—Warkworth House).

Exams. for the Univ.'s *Certificate of Proficiency*, held in June and Dec., are open to students of certain colleges, and to teachers who have had at least a year's experience in an approved Secondary School, if their attainments are satisfactory.

Students of the *University Training College* (Principal—C. Fox, M.A., Chr.; address—Warkworth House) devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several scholarships and exhibitions are offered to intending schoolmasters who have been Bursars, Student Teachers, or Pupil Teachers.

There is also a Post-graduate Training Coll. for Women. Principal—Miss M. H. Wood, M.A. Lond., Litt.D. Dub., Girton; address—Wollaston Rd.

Candidates are trained for HOLY ORDERS at Ridley Hall, founded in 1879 (Principal—A. J. Tait, D.D. Joh.); or at the Clergy Training School, Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, M.A. Trin.). These and other similar institns.—the Westminster Coll., founded 1844 (Principal—J. Oman, M.A. Qu., D.Phil., and D.D. Edin., Presbyterian); Cheshunt Coll., founded 1768 (Resident Tutor—Sydney Cave, D.D. Lond., Undenominational); St. Edmund's House, founded in 1896 (Principal—Rev. T. F. McNulty, M.A., Roman Catholic) and Wesley House, founded 1924 (Principal—H. Maldwyn Hughes, D.D. Lond.)—are not directly or definitely concerned or connected with the Univ. Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 respectively.

RESEARCH STUDENTS. Each application for admission must be accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments, and previous study; (iii.) a certif. or declaration that the applicant has attained the age of 21 yrs. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (*a*) that the course of research can conveniently be pursued within the Univ., and (*b*) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course.

Asst. Registrary for Research Studies: R. E. Priestley, M.A. Clare.

A Research student pursues his course under direction and supervision, prescribed by the Degree Committee of the Special Board of Studies concerned. If he wishes to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by the V.C. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as research students, the M.Sc. or M.Litt. may be obtained. For the Ph.D. (v. p. 16) 3 yrs. are ordinarily required, including 2 (in special cases 1) in the Univ. In exceptional cases a course extending over 2 yrs. instead of 3 may be accepted.

UNIVERSITY SCHOLARSHIPS open to graduates number about 57, and are worth about £5600 p.a. In almost every instance they are open only to persons who have graduated in or are members of this Univ., and in some cases only to those who have kept a certain number of terms. For details see *Students' Handbook* (price 7s. 6d., Univ. Press), which also gives details of *Entrance* Scholarships.

EXPENSES. See p. 209.

APPOINTMENTS. (1) The University Appointments Board is concerned with appointments of all kinds (Secy.—H. A. Roberts, M.A., Univ. Offices; Educational Secy.—R. S. Goodchild, M.A.); (2) the Scholastic Agency is

concerned with scholastic appointments only (Director—Prof. W. J. Lewis; office at Mineralogical Museum).

WOMEN. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the *Previous* examn., the Tripos examns., and certain examns. in Med. and Music. They were subsequently admitted to the courses and examns. for the Diplomas in Agric., Horticulture, Forestry, and Geog., and for the Training of Teachers, and were made eligible for Certifs. of Research. Finally in Oct. 1921 a Grace admitting them to titular degrees was passed. Women students must reside either at Girton or at Newnham or within the precincts of the Univ. under the Regulations of one or other of these colleges.

The UNIVERSITY LIBRARY contains over 1,000,000 vols., including many early printed books, and over 10,000 MSS. and 160,000 maps. It is entitled under the Copyright Act to a copy of every book published in the U.K., and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following remarkable collections: Acton library (mediæval, ecclesiastical, and modern history, ab. 60,000 vols.); W. G. Aston's Japanese library; Sir T. Wade's Chinese books; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.).

Each College and Hostel has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. There are also many departmental libraries, such as the Class. Archæol.; the Seeley Memorial (works on Hist. and Comp. Politics originally collected by John Symonds, Regius Prof. of Mod. Hist. from 1771 to 1807, and added to by his successors); Economics; Law (Squire Law Library); Mod. Langs.; Moral Sciences; Bendall (Sanskrit, etc.); Pathological School; Music collections in the Fitzwilliam Museum and Museum of Archæol.; Conchol. and Ornithol. (in Museum of Zool.); Robertson Smith (Oriental books); Selwyn Div. School. The Library of the Philos. Soc. maintains a special relation to all the Scientific Depts. and is very rich in sets of Journals and Scientific Transactions. The Balfour Library contains a large collection of books and periodicals on biological subjects. The annual budget of the Univ. library is about £14,000.

MUSEUMS of Art and Archæology. The Fitzwilliam (Director and Marlay Curator—S. C. Cockerell, M.A.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs and early printed books; the Museum of Class. Archæol. (Curator—A. B. Cook, M.A. Qu.) contains a collection of casts illustrating the history of Greek sculpture.

The Museum of Ethnol. and Archæol. (Curator—L. C. G. Clarke, M.A. Trin. H.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collection, and numerous others resulting from scientific expeditions by Cambridge men.

The "Museums of Science" include museums, laboratories, lecture-rooms, class-rooms, and workshops for Agric., Bio-Chem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs., and drawing office), Exper. Physics, Hum. Anat., Ethnol., Forestry, Medicine, Mineralogy (collection very largely increased in recent years and one of the best in the country), Physiol., Psychol., Zool. and Comp. Anat. The Zool. Lab., in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology. The Museum of Zool. includes very complete series of verte-

brates and invertebrates, the fishes obtained by Charles Darwin during the voyage of H.M.S. *Beagle*, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry [Supt.—C. F. Cooper, M.A. Trin.; Strickland Curator (Birds)—H. Gadow, M.A., F.R.S. (King's); Curator in Entom.—H. Scott, Sc.D. Trin.]. The Sedgwick Museum of Geol. includes a fine collection of British and foreign building stones lately added to the Economic section.

In addition to the laboratories of the School of Agric. there are Field Labs. covering about 10 acres, provided by means of Govt. grants for an Institute for Research in *Animal Nutrition*; also a Univ. Farm (Director—A. Amos, M.A. Down.) of 200 acres and *Plant-breeding* Farm of 230 acres. The *Botanic Garden* (Director—H. Gilbert-Carter, M.A. Trin.) has excellent facilities for study. The Molteno Institute for research in *Parasitology*, and a *Low Temperature* Station for research in *Bio-Chemistry* and *Bio-Physics* were established in 1921.

A *Horticultural* Research Station was established in 1924 in co-operation with the Ministry of Agriculture.

A SCHOOL OF PATHOLOGY was endowed by the Rockefeller Foundation (£133,000) and Ernest Gates (£33,000) in 1924.

The OBSERVATORY (Director—Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of 8¼ in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial 12¼ in.; a number of smaller instruments, and a good library. The Solar Physics Observatory standing close to the older Obs. has the Newall telescope (25 in.), McClean cœlostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are conducted at various places throughout the country and overseas. Copies of the Regns. regarding the Junr. Local and School and Higher School Certificate examns. and the examns. (designed for teachers of not less than 20 yrs. of age) for Certifs. of Proficiency in Religious Knowledge and in English, may be obtained from the Secy., Local Examns. Syndicate, Syndicate Buildings.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, including places so distant as Southport, Newcastle, Gt. Yarmouth, and Exeter, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (i.) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the short essays written on these questions, and (iv.) the examn. The grades of certificates are: *Terminal*, awarded after a course of ordinarily 12 lectures; Terminal Certificate in Honours implying distinction; *Sessional*, for courses extending over not more than 2 yrs. and including at least 22 lectures; the *Vice-Chancellor's*, awarded to students who obtain Terminal or Sessional certifs. satisfying certain conditions and submit a satisfactory essay; and *Affiliation* certif., obtainable only at affiliated centres (Exeter, Leicester, and Southport) under special conditions. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres Union and the Workers' Educational

Assocn. Full particulars can be obtained from the Secy., Syndicate Buildings (Rev. D. H. S. Cranage, Litt.D.).

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assocn. They are managed by a Committee appointed by the Syndicate, consisting of 6 resident members of the Senate and 6 representatives nominated by the W.E.A.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 4s. 6d.; *Ordinances*, 1923 (fresh editions every 3 or 4 yrs.,*Supplementary Ordinances*, 1924, 2s. 6d.), 15s.; *The Students' Handbook*, annually in July, 7s. 6d.; *Facilities for Graduate Study and Research*, 1923; *Compendium of Univ. Regns.*, 9d.; *The Statutes of the Univ., with some Acts of Parlt.*, 7s. 6d.; *Endowments of the Univ. of Camb.*, 1904; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to 1751, Parts I. to III., A to R); *Matricns. and Degrees* (a list of all those who have entered the Univ.; 1544–1659, 1850–1900, 1901–1912); the *Calendar*, annually (Oct.), 15s.; the *Historical Register*, 20s.; *Historical Register Supplement*, 1911–20, 8s. 6d.; *Index to Tripos Lists*, 1748–1910, 10s.; *The War List of the Univ. of Cambridge*, 1914–18, 20s.; *University Extension: a Survey of 50 Years*, by the Master of the Temple, 3s. 6d. *Histories*: (*a*) *Annals of Cambridge*, by C. H. Cooper (5 vols.); (*b*) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.); (*c*) College Histories—Robinson's Series, various authors; Dent's Series—King's, St. John's, Trinity, 2s. each. *Magazines*: The *Cambridge Review*, the *Granta*, the *Old Cambridge*, the *New Cambridge*, weekly during term.

THE YEAR 1923–24

BENEFACTIONS. Rockefeller Trustees, £133,000 and E. H. Gates, £33,000 for building and endowment of School of Pathology; Sir Jeremiah Colman, £2000 for maintenance of Library of School of Bio-Chemistry; Sir P. Laurence, £7500 (additional to £2500 already given) for Library and support of classical studies or archæology; Mrs. Pinsent, Sir Horace Darwin and Lady Darwin, £5000 for studentship in mental pathology; Mr. and Mrs. Molteno, £5000 (addition to previous benefaction) for Institute of Parasitology; Mrs. A. P. Read, £3030 for scholarship; Master of Clare, Mayhew Prize (Maths.); Sir Esmé Howard, endowment of scholarship tenable in Spain; Mrs. Oppenheim and Governors of Trinity College, contribution to Whewell Scholarship Fund; Fishmongers' Company, £50 p.a. for 5 years for Russian lectureship; R.I.B.A., £70 for scholarship tenable alternately at Cambridge and Oxford; General Electric Co., Schenectady, N.Y., $5000, and British Thomson Houston Co., £250 for Cavendish Laboratory; Dr. J. Pierpoint Morgan, reprints of Coptic MSS.; Empire Cotton-growing Assocn., £1000 p.a. for 5 yrs. for Plant Genetics; estate of W. J. Newman, £500 for Library; estate of B. St. J. Attwood-Mathews, £3750; Lady Jebb, life interest in £3500 for literary studies; H.I.H. Taffari Makonnen, books and elephant tusks.

NEW POSTS. Asst. Director of Radio-active Research.

LEGISLATION. The Statutory Commissioners appointed in pursuance of the Report of the Royal Commission, 1922, dealt with fellowships, faculties, pensions, scholarships, the position of women, an entrance examn., and minor matters. The ordinances relating to Non-Collegiate students were remodelled and the financial position of the Board charged with their administration was stabilized.

OTHER IMPORTANT EVENTS. The Dunn School of Bio-Chemistry was taken over from the trustees on May 9. The Fitzwilliam Museum's Marlay galleries

were opened June 18. H.I.H. Taffari Makonnen of Abyssinia visited the Univ. on July 17. A scheme for the teaching of Scandinavian languages was introduced in co-operation with Univ. College, London. A scheme for establishing a horticultural research station in co-operation with the Ministry of Agriculture was adopted.

DEATHS. Sir A. W. Ward, June 19; V. H. Stanton, June 18; Dr. Alfred Marshall, July 13; P. W. Latham, Oct. 29; H. T. Francis, June 28; C. E. Sayle, July 4; Sir C. V. Stanford, March 29; K. J. J. Mackenzie, June 5; G. P. Moriarty, June 21; G. H. Leigh-Mallory, June —; Arthur Wright, April 12; T. G. Bonney, Dec. 9; G. M. Edwards, Jan. 10; J. M. Vaizey Hope, Nov. 13; Oscar Browning, Oct. 6; Miss K. Stephen (Principal of Newnham College, 1911–20). RESIGNATIONS. As Secy. to the Board of Research studies, Sir Geoffrey Butler; as commandant of the O.T.C., Lt.-Col. Thornton.

VISITORS FROM ABROAD WHO LECTURED. Constantine Nabokoff (formerly Russian Chargé d'Affaires); Prof. E. H. Warren (Harvard); Dr. Morton Prince (Boston, U.S.A.); Prof. C. Collin (Christiania); A. Thibaudet (Paris); Paul Vitry (Paris, Louvre); Prof. Brunschvieg (Sorbonne); Prof. E. Bourgeois (Sorbonne); Prof. Salvemini (Florence).

LONG VACATION courses for undergraduates were provided in Physics, Botany, Physiology and Physiological Chemistry, Geology, Zoology, Anatomy, Mineralogy, Engineering, Law, Agriculture, and Medicine and Surgery, and for I.C.S. selected candidates in Indian Law, Indian History, and Indian Languages.

RELATIONS WITH OTHER UNIVERSITIES AND COLLEGES. Students of the Univs. of Alberta, Berne, British Columbia, California, Cape Town, Dalhousie, Manitoba, Saskatchewan, Stellenbosch, and Witwatersrand were admitted to the privilege (withdrawn from those of some other Univs.) of affiliation. Recognition was accorded to matriculation examns. of Tasmania, British Columbia, McGill, and Toronto.

NUMBER OF STUDENTS. Total, 4977 (including women—460). Advanced students engaged in research work, 259 (w.—18); other advanced students, 82 (w.—12). Students preparing for first degrees, 4504 (w.—430); preparing for diplomas, 132 men.

Research students, April 1924, 206, of whom 62 were Cambridge graduates, while the others came from other Univs. in England (46—Liverpool 11, London 10, Manchester 8), the U.S.A. (17), India (16), Scotland (15), Wales (15), Ireland (15), other parts of the Empire (20), China (1), Japan (2), Switzerland (1), and Holland (1). The fields of research were chiefly Physics (24), Chemistry, and Physical Chemistry (25), Bio-Chemistry (17), Botany (16), Zoology (8), Physiology (6), Medicine (5), Agriculture (12), History (21), English (12), Divinity (8), Economics (7), Oriental Languages (6), Classics (5).

HONORARY DEGREES CONFERRED. *D.D.*—W. G. Whittingham, J. C. Hill, L. J. White-Thomson; *LL.D.*—His Excellency Agustin Edwards of Chile, Rt. Hon. S. M. Bruce, the Duke of Rutland, Rt. Hon. Earl of Crawford and Balcarres, H.I.H. Taffari Makonnen of Ethiopia; *Litt.D.*—Sir Arthur Evans, Sir C. J. Holmes, D. G. Hogarth; *M.A.*—J. B. Buxton.

OTHER DEGREES. B.A., 1184; LL.B., 108; M.B., 46; B.Chir., 45; Mus.B., 4; M.A., 240; LL.M., 5; M.Sc., 1; D.D., 2; LL.D., 1; M.D., 22; Sc.D., 4; B.D., 3; Ph.D., 31. Titles of degrees: diplomas conferred on women—B.A., 198; LL.B., 5; B.Chir., 2; M.A., 191.

DIPLOMAS (1922–23 and 1923–24). Agric., 19; 4; Anthrop., 0, 1; Class. Arch., 2, 2; Educn., 1, 2; Forestry, 12, 10; Geog., 17, 8; Hortic., 1, 3;

Hygiene, 1, 3 ; Med. Rad. and Elec., 24, 24 ; Psych.-Med., 4, 2 ; Pub. Health, 39, 46 ; Trop. Med. and Hy., 12, 8. Women included in above : Geog., 3, 0 ; M.R. and E., 4, 2 ; P.H., 14, 13 ; T.M. and H., 0, 1.

APPOINTMENTS BOARD. In 1923 377 appointments were obtained on the introduction of the Board. These included : educational, 118 ; manufacturing and technical, 88 ; administrative posts in commerce and industry, 77 ; government departments, mainly scientific, 20 ; colonial administrative, 19 ; agriculture and forestry, 18 ; Indian and Colonial railways, P.W.D. and Survey, 9 ; journalism and publicity, 7 ; secretaryships, 6 ; railway traffic, 5. Of 500 men who graduated from seven of the Colleges in June 1923 only 13 remained unemployed by the end of Jan., and 7 of these were known to have obtained employment before Oct. 1924. A large percentage of them were placed by the Appointments Board.

LOCAL EXAMNS. were held in Dec. 1923 at 282 centres, including 33 in India, 21 in Ceylon, 12 in Straits Settlements and Malay States, 3 in China, 14 in Africa, 14 in W. Indies, and others in Aden, Central and S. America, Bermuda, Gibraltar, Fiji, Mauritius, and Seychelles. The number of candidates was 13,119. In July 1924 the examns. were held in 328 centres, of which 16 were overseas, and the number of candidates was 9763.

LOCAL LECTURES centres numbered 62 ; the number of courses was 67 ; Final Examn. Certifs., 201 ; attendances at lectures and classes were 8494 and 2247. Thirteen TUTORIAL CLASSES, not included in above statistics, were arranged in connexion with the Workers' Educational Association.

BENEFACTIONS TO WOMEN'S COLLEGES. Bequest by Miss S. A. Turle to Newnham College for endowment of scholarships.

UNIVERSITY OF DURHAM

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—The Rt. Hon. the EARL OF DURHAM, K.G., G.C.V.O., D.C.L.

VICE-CHANCELLOR—Sir THEODORE MORISON, K.C.S.I., K.C.I.E., M A., D.C.L.

PRO-VICE-CHANCELLORS—Prof. ARTHUR ROBINSON, M.A., D.C.L.; J. S. G. PEMBERTON, M.A., D.C.L.; Prof. Sir DAVID DRUMMOND, C.B.E., M.A, M.D., D.C.L., LL.D.

PROCTORS—W. N. HAWORTH, Ph.D., D.Sc.; Rev. H. ELLERSHAW, M.A.

REGISTRAR—H. G. THEODOSIUS, M.A., B. ès L.

LIBRARIAN—E. V. STOCKS, M.A.

AFFILIATED AND ASSOCIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass examns., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., D.C.L., and L.Th. degrees:

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—J. C. Wippell, M.A., B.D.; Prof. of Theology—E. J. Lee, M.A.; Prof. of Classics—W. W. C. Dunlop, M.A.; Prof. of Medicine—W. B. Clarke, M.B., C.M.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone; Principal—James Denton, M.A. (acting); Vice-Principal—..... 3 Tutors and 5 Lectrs.

B. Ladies' College, Cheltenham; Queen's College, Harley St., London; Women's Training Colleges, Darlington and Ripon. Women students of 18 yrs. of age who have completed 2 yrs. of study and examn. at any one of these and passed the First Public Examn. in Arts may be allowed to count 2 yrs. kept at the College as 1 yr. towards the B.A. degree.

C. The following associated Theological Colleges:

St. Aidan's; St. Augustine's; Burgh; Chichester; Cumbrae; Dorchester; Edinburgh; Highbury; Jamaica; St. John's, Armidale, N.S.W.; Lichfield; Lincoln; Moore, Sydney; Queen's, St. John's, Newfoundland; Salisbury; Selwyn, Dunedin; Truro; Warminster; Bishop Wilson School, Isle of Man; Theol. Depts. of King's Coll., London, and of Queen's Coll., Birmingham; St. Andrew's College (Oyo, Nigeria).

Students may take in these Colleges courses extending over 3 years, which qualify for the Lic.Theol. Nine terms kept in one of these Colleges, after passing the matricn. examn., may be counted in lieu of 6 of the terms required for the B.A. degree in the case of a student who obtains the Lic.Theol.

GENERAL INFORMATION

The Univ. was established by Act of Parliament in 1832 and reconstituted in two divisions in 1908. The College of Medicine, founded in 1832, became associated with the Univ. first in 1852, and more closely, as "The University

of Durham College of Medicine," in 1870. Armstrong College was founded in 1871 as the Durham College of Physical Science, and assumed its present name in 1904. The Vice-Chancellorship is held in rotation by a representative of the Durham Colleges, College of Medicine, and Armstrong College for 2 years.

The Univ. has no teaching staff apart from those of the Durham Colls., the Coll. of Medicine, and Armstrong Coll. The Council of the Durham Colleges, the Coll. of Medicine, and Armstrong Coll. have respectively full power and authority to regulate teaching and discipline, and to provide for the appointment of all their teachers and other officers.

LIBRARIES. See under the Colleges.

FACULTIES AND DEANS. At Durham only: Theology, Prof. Walker, and Music, Prof. Bridge; at Durham and Armstrong: Arts and Letters, Prof. Wight Duff (Armstrong—Classics), and Science, Prof. Havelock (Armstrong—Maths.); at College of Medicine: Medicine, Prof. Howden (Anatomy); at Armstrong: Commerce, Prof. Latham (Mod. Langs.). University Committees of Education and of Military Education.

MATRICULATION. See Appendix XXI.

ADMISSION OF STUDENTS FROM OVERSEAS. The matricn. examns. of Sydney and the S. African Univs. and degrees in Arts of all Univs. of the British Empire are accepted. See also Appendix XXIII.

DEGREES. B.A., M.A., B.Litt. (obsolete), M.Litt., D.Litt.; B.Sc., M.Sc., D.Sc.; B.D., D.D.; B.C.L., D.C.L., LL.B.; M.B., B.S., M.D., M.S., D.Ch.; B.Hy., D.Hy.; M.D.S., B.D.S.; B.Mus., D.Mus.; B.Com., M.Com.; Ph.D. (v. p. 16).

Diplomas in Foreign Langs., Arabic, Theol., Psychiatry, Teaching, Public Health; L.D.S., Lic.Theol.

The B.A., B.Sc., or B.Com. may be obtained by a 3 yrs.' undergraduate course. For the 1st yr. of the B.Sc. course equivalent study in another Univ., and for the 1st yr. of the B.Com. course 2 yrs.' attendance as an evening student, may be accepted. For the B.Mus. two public examns. must be passed.

For the M.B. and B.S. at least 1 of the 5 yrs. of Med. study must be spent in the Coll. at Newcastle. The B.Hy. is open to graduates in Med. who have spent 1 yr. in professional study at Newcastle. The B.D.S. course is one of 5 yrs.

The B.C.L. may be taken by examn. by a B.A. of 6 terms' standing.

The LL.B. may be taken by a candidate of Intermediate grade in Arts or Science after a 3 yrs.' course.

The course for the Diploma in Teaching covers 3 terms after graduation.

The course for the Diploma in Arabic covers 3 terms.

The M.A. is open to a B.A. of 9 terms' standing who obtained 1st or 2nd Class Honours in the Final B.A. examn. or, after passing this examn., has passed the Dipl. Theol., B.D., B.C.L., M.B. or B.Sc., degree examn., or who qualifies by passing a special examn.

The M.Sc. can be obtained by a B.Sc. of 2 yrs.' standing by original work or examn.

The M.D.S. can be obtained by a B.D.S. of 2 yrs.' standing by thesis and practical dental work of high skill.

The D.Litt. or D.C.L. may be obtained by a B.A. (or B.Litt.) or B.C.L., respectively, of 10 yrs.' standing by a sufficient contribution to learning; the D.Sc. in the 7th year after admission to B.Sc.; the D.Mus. by a B.Mus. of 15 terms' standing.

For the M.D. a candidate must have had 2 yrs. of practice in a hospl. or Mily. or Naval service after graduation as M.B.

For the D.Ch. a candidate must have devoted 3 yrs. (including one at least

in the Univ. and 6 months at least abroad), subsequently to having obtained a registrable qualification, to the study of surgery and ancillary subjects.

For the D.Hy. 2 yrs.' experience of Pub. Health administration or research after obtaining the B.Hy. are necessary.

M.D. Degree Examn. for Practitioners. A person who has been registered by the Gen. Med. Council of the U.K. and in the active practice of his profession for 15 yrs. as a qualified practitioner and is not less than 40 yrs. of age may obtain the M.D. degree without fulfilling any conditions as to residence on passing an examn. instituted for this purpose by this Univ. and held in March and June. Candidates who have not passed previously to their professional examn. an examn. in Arts are required to pass an examn. in Classics and Maths. Natives of India are admissible if they bring evidence of having passed within the preceding year an examn. in Latin.

Degrees, etc., in Theology. The B.D. examn. is open to candidates who are graduates of a Univ. of the British Empire in Arts (or Letters) of 2 yrs.' standing; if of another Univ. they must have obtained the Dipl. Theol. of Durham. The Board of the Faculty may admit also non-graduates who keep three terms at Durham and pass the Dipl. examn.

The Lic. in Theol. is open to members of the C. of E. only. Nine terms must be kept at one of the Theol. Colls. in list C above.

The Dipl. in Theol. is obtainable by graduates of a Univ. of the British Empire who keep 3 terms at Durham and pass the Dipl. examn. Residence for a year at an approved Australian Coll. may be accepted in lieu of keeping 3 terms at Durham.

The D.D. is open to a B.D. of Durham who is a Master of Arts of 10 yrs.' standing on submission of a sufficient contribution to learning.

FEES. Matricn., £2. Examns and degrees, £2 to £10 (Examns. for D.Ch., £20; D.Hy., £20; M.D. for practitioners, 50 gs.; Final for M.B., B.S., £15).

PUBLICATIONS. *Univ. Calendar* (Sep.), 2s. 6d.; *Durh. Univ. Gazette*, 4s. annually; *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.

THE YEAR 1923–24

NEW DEVELOPMENTS. Affiliation of Neville's Cross Training College (see under Durham Division); affiliation of St. Andrew's College (Theological), Oyo, Nigeria; opening of Science Laboratories and institution of school of Pure Science with 2 Chairs, 3 readerships, and 2 lectureships, in the Durham Division; institution of degrees B.D.S., M.D.S., and LL.B.; lectureship in Law at Armstrong College; foundation of Province of Durham Masonic Scholarships; removal of age limit (25 years) for eligibility for B.D.; change of B.A. standing for B.C.L. from 9 terms to 6 terms.

HONORARY DEGREES CONFERRED. *D.D.*—Rt. Rev. J. Holden, Rt. Rev. G. Wright; *D.C.L.*—Sir F. W. Andrewes, Sir W. H. Bragg, Sir B. Bramwell, Sir G. Lunn; *D.Sc.*—W. C. McIntosh; *D.Litt.*—Maria Montessori, Violet Paget, C. S. Terry; *M.A.*—T. F. Brass, F. G. Simpson, W. N. Smith; *M.Sc.*—W. H. Young; *M.Com.*—H. Shaw.

OTHER DEGREES. B.D., 3; B.C.L., 2; M.D., 7; M.B., B.S., 64 (including women—12); B.Hy., 2; M.A., 43 (w.—6); B.A., 132 (w.—57); D.Sc., 1; M.Sc., 38 (w.—3); B.Sc., 104 (w.—7); M.Litt., 2 (women); D.Mus., 2; B.Mus., 5 (w.—1); B.Com., 8 (w.—2); Ph.D., 6 (w.—1); L.Th., 45; Dip.Th., 14; L.D.S., 7; D.P.H., 1; Dip.Psy., 1; D.Th.P.T., 42 (w.—20).

TUTORIAL CLASSES (W.E.A.) 39. In Durham, Northumberland, and Cumberland counties.

DURHAM DIVISION

President of Council—J. S. G PEMBERTON, M.A , D.C.L.
Secretary of the Council—C. S. WALLIS, M.A.
Secretary of Examinations—J. H. HOW, M A
Prælector—S. R. P. MOULSDALE, M.A., B.D.
Treasurer—F. W. RITSON, M.A.
Librarian—E. V. STOCKS, M.A.

PROFESSORS AND LECTURERS, January 1, 1925

Botany
Griffiths, B M., D Sc. Birm., F.L.S. Reader

Chemistry [Prof.
Masson, J. I Orme, D Sc Melb
Macbeth, A. K., M.A. St And., D.Sc Belf Reader.
Dobson, H J. E., B Sc Lond. Lectr.

Classics
Cruickshank, A. H., M.A. Ox., D.Litt. (Greek and Class. Lit) Prof.
How, J. H., M.A. Ox. (Latin) Prof.
Conway, G. S , B.A. Camb. Lectr.
Boden, J P., M A. Lectr.
Body, L. A., M.A. Camb. Lectr.
Donaldson, Rachel E. D., M.A. Ox. and Durh. Lectr.
Norman, R. T., M.A. Lond., B.A. Ox. Lectr.

Divinity and Eccl. History
Walker, D., M.A., D.D. Ox. Prof.

Divinity
Pace, E. G., M.A., D.D. Reader.

Economics and History
Hood, F. C., M.A. Edin. Lectr.

Education and Psychology
Robinson, A., M.A., D.C.L. Prof
Powell, T. W., M.A. Lectr. (Educn.).

English Lang. and Lit.
Ellershaw, H , M.A. Prof.
Colgrave, B , M.A. Camb. Lectr.

Geology
Holmes, A., D.Sc. Lond , A.R.C.S., D.I.C., F.G.S. Reader.

Hebrew and Oriental Langs.
Guillaume, A , M.A. Ox. Prof.

History [Reader.
Whiting, C. E., M.A., B.D., B.C.L.
Edwards-Rees, Désirée M. M. Lectr.

History, Ecclesiastical
Wallis, C. S., M A. Lectr.

Liturgiology [Lectr.
Moulsdale, S R P., M.A , B D.

Mathematics
Heawood, P. J., M.A. Ox. Prof.
Burchnall, J. L., M.A. Ox. Lectr.

Military Science [Lectr.
Currie, P. J. R., O.B.E., M.C.

Modern Languages [Prof.
Herdener, C. F., M.A. (B.A. Lond.) [Lectr. (French).
Lambley, Kathleen, M.A., Doc. Univ. Rennes
Houston, Gertrude C., M A. Belf. and Lond. Lectr. (German).
Lilly, R. M. Fr. Asst.
Janis, A. J. Fr. Asste.

Music
Bridge, J. C., M.A., D.Mus. Prof.

Palæography
Falkner, J. M., M.A. Ox. and Durh. Hon. Reader.

Philosophy [Prof.
Jevons, F. B., M A. Ox., D.Litt.

Physics
Wagstaff, J. E. P., M.A., B.Sc. Camb. Prof.
Alty, T., M.Sc., Ph.D. Lectr.

Psychology, v. Educn.

Theology, v. also Div.
Coleman, N. D., M.A. Camb. Lectr. in T. and Hellenistic Greek.
Derry, Ven. P. A., M.A. Ox. Lectr in Pastoral T.

University Extension

14 Tutors for 22 classes. Secy. to the Joint Committee: Rev. Dr. Pace. Organizing Secy. of N E. District of W.E.A.: Alderman W. N. Smith.

THE DURHAM COLLEGES

UNIVERSITY. Master—H. Ellershaw, M.A. Censor and Bursar—A. A. Macfarlane-Grieve, M.A. Chaplain—.....

HATFIELD. Master—A. Robinson, M.A., D.C.L. Vice-Master and Chaplain—E. G. Pace, M.A., D.D. Censor—C. F. Herdener, M.A. Bursar—J. L. Burchnall, M.A.

ST. CHAD'S. Principal and Chaplain—S. R. P. Moulsdale, M.A., B.D. Vice-Principal—C. E. Whiting, M.A., B.D., B.C.L. Classical Lectr.—L. A. Body, M.A. Fellow, Tutor, and Bursar—J. P. Boden, M.A.

ST. JOHN'S. Principal and Chaplain—C. S. Wallis, M.A. Vice-Principal—H. Y. Ganderton, M.A. Lectr. in Hebrew—N. D. Coleman, M.A. Classical Lectr.—O. W. Whaley, M.A. Elocution Teacher—A. D. Culley, M.A., Mus.B.

BEDE. Principal—*D. Jones, B.D. Lectrs.—T. W. Powell, M.A.; F. Bentley, B.A.; F. E. Dann, M.A., M.Litt.; G. Turley, M.Sc.; J. Longstaff, M.A. [*Retired, Feb., 1925.]

ST. MARY'S (for women). Principal—Rachel Donaldson, M.A. Censor and Tutor—Désirée M. M. Edwards-Rees, B.A. Bursar—Aline M. R. Macintyre, B.A.

ST. HILD'S (for women). Principal—Eleanor C. Christopher, M.A. Lectrs.—Winifred Hindmarsh, M.Litt.; Jean Templeton, M.A.; Margaret Dodgson; Gladys Hinde, B.A.; Gladys Green.

NEVILLE'S CROSS (Training College for women). Principal—Zeta G. D. May, M.A. Lectrs.—Mary Benson, M.A., B.Sc.; Marjorie C. Haywood, M.A.; Winifred M. A. Lomas, B.Sc.; Christina M. Muirhead, M.A.; Mary Sturt, M.A.

NON-COLLEGIATE STUDENTS. Censor—N. D. Coleman, M.A.

HOME STUDENTS (Women). Censor—Kathleen Lambley, M.A.

GENERAL INFORMATION (see also p. 63)

University College was formed at the opening of the Univ.; Hatfield was opened (as Bishop Hatfield's Hall) in 1846, St. Chad's in 1904, St. John's in 1909. Bede College, founded in 1839, was brought into connexion with the Univ. in 1919 as a licensed Hall of Residence for Undergraduates. St. Mary's College, opened in 1899, St. Hild's (established in 1858 as a C. of E.

Training College), and Neville's Cross (established in 1921 by the County Council as a Training College) are the residences for women.

LIBRARY, 39,000 vols., including rare theological and patristic books. MUSEUMS with collections of birds (including a nearly complete collection of British birds) and shells, and mineral specimens. OBSERVATORY with almucantar, etc.

MATRICULATION. See Appendix XXI.

FEES. Including admission, tuition, examns., board and lodging, subscriptions and gratuities, at Univ. College, £120 p.a.; Hatfield, £100; St. Chad's, £100; St. John's, £103 : 10s.; St. Mary's, £105; St. Hild's, £44; Neville's Cross, £45. Non-Coll. students pay £24 p.a., Univ. fees including club subscriptions; average cost of board and lodging per term £14 to £24.

FELLOWSHIPS, 3 Tutorial, £200 to £300, and 1 ordinary, £200, open only to candidates who have kept terms and taken B.A. in Durham Division.

THE YEAR 1923–24. The School for Pure Science was opened by Sir William Bragg on October 2, 1924, and a regular course of instruction therein was begun in the Michaelmas Term. The buildings will accommodate 100 students. Neville's Cross College was affiliated as a Hall of Residence. *New Posts:* Profs. of Chemistry and Physics, Readers in Geology, Botany, and Chemistry, Lecturers in Chemistry and Physics, Readers in Palæography (Hon.) and Archæology. Students, 261, including 93 women; also unattached students in Theol. (162) and Music (148).

COLLEGE OF MEDICINE, NEWCASTLE-UPON-TYNE

Chairman of the Court of Governors—W. J. SANDERSON, J.P.

President of the College and Vice-Chairman of the Court of Governors—Sir DAVID DRUMMOND, C.B.E., M.A., M.D., D.C.L., LL.D.

Registrar—Prof. R. HOWDEN, M.A., M.B., D.Sc.

Hon. Treasurer—C. A. COCHRANE, M.A., D C.L , J.P.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Anatomy

Howden, R., M.B., C.M. Edin., M.A., M.B., D.Sc. Prof.
Green, R. B., M.B., B.S. Lond., F.R.C.S. Lectr.
Whillis, J., M.B , B.S. Demr.
Lectrs. in Appl. A. :
Clay, J., K.H.S., C.B.E., M.B., B.S., F.R.C.S.
Lickley, J. D., M.D. Glas.

Bacteriology, v. Path. Comp.

Biology

Potter, M. C., M.A. Camb. and Durh., Sc.D. Camb., F.L.S. (Botany) Prof.*
Meek, A., D.Sc., F.Z.S. (Zool) Prof.*

Chemistry

Haworth, W. N., D.Sc. Manc., Ph.D. Gött., M.Sc. Prof.*
Briscoe, H. V. A., D.Sc. Lond., A.R.C.Sc., D.I.C. Prof.*

Children, Diseases of

Ogden, O. W., M.D. Lectr.

Dental Science, v. *infra*

Dermatology, Clinical

Bolam, R. A., O.B.E., M.D., LL.D., F.R.C.P. Lectr.
Thompson, S., M.B. Asst.

Hygiene, v. Pub. Health

Laryngology & Otology, Clinical

Whillis, S. S., M.D., B.S. Lectr.
Wilson, W. F., M.B., B.S. Lectr.

Materia Medica and Pharmacology

Hume, W. E., C.M.G., M.A., M.D., B Chir. Camb., F.R.C.P. Prof.

Medical Jurisprudence

Hall, G., C.M.G., M D. Lond., B.Sc. Lectr.

Medicine, Principles and Practice of

Oliver, Sir Thomas, D.L., M.D. Glas. and Durh , LL D. Glas., D.Sc. Sheff., M.A., D.C.L., F.R.C.P. Prof.
Beattie, T., M.D., F.R.C.P. Lectr.

Medicine, Clinical

Beattie, T., M.D., F.R.C.P. Lectr.
Prof. Hume (v. Mat. Med.) Lectr.
Drummond, H., M.D., B S. Lectr.
Parkin, A., M.D., F.R.C.S. Lectr.
Hall, G. (v. Med. Juris.) Lectr.
Patterson, D. W., O.B.E., M.B., B.S. Lectr.
Hunter, T. C., M.D., B.S. Lectr.
Nattrass, F. J., M.D., B.S. Lectr.

Midwifery and Gynæcology

Lyle, R. P. R., M.A., M.D. Dub. and Durh., B.Ch., B.A.O. Dub. Prof.

* Also in Armstrong Coll.

Murray, E. F., M D. St. And., F.R.C.S.
" Lectr. & Clin. Lectr.
Lectrs. in Clinical M. :
Ruxton, W. L., M.B., C.M.
Campbell, L. Mabel R., M.A., M.B., Ch.B.

Ophthalmology and Clin. Ophth.
Wardale, J. D., M.A., M.B., B.S. Prof.
Arkle, J. S., M.B., B.S. Asst.

Pathology and Clin. Path. [Prof.
McDonald, S., M.D. Edin., M.A.
Shaw, A. F. B , B.A., M.D. Dub., D.P.H. Lectr.
Smith, R. P., M.B., Ch.B., D.P.H. Demr.
Spence, J. C., M.D. Demr. (Path. Chem.).
Murray, E. F , M D , F.R.C.S. Demr (Gynæc. Path.).

Pathology, Comp., and Bacteriology
Hutchens, H. J., D.S.O., D.P.H. Ox., M.A. Heath Prof.
Clayton, F. H. A., M.D. Lectr.
Warren, S. H., M.R C.S., L.R.C.P., D.P.H. Demr.
Wallace, J. M., M.A. Camb., M.R.C S., L.R.C P. Demr.
Whitehead, H. R., M.Sc. Leeds, A.I.C. Demr.

Pathology, Medical
Prof. Hume (v. Mat. Med.) Demr.

Pathology, Surgical [Demr.
Drummond, H. (v. Surg. Clin)

Physics
Stroud, H., M.A. Camb. and Durh., D.Sc. Lond. and Durh., F.Ph.S.L. Prof.*
Todd, G. W., M.A., D.Sc. Prof.*

Physiology [Prof.
Burns, David, M A., D.Sc. Glas.
Leech, J. W. C., M.B., B.S. Demr.
Secker, J., M.Sc. Demr.

Psychological Medicine
MacPhail, H. D., O.B.E., M.A., M.D. Lectr.

Public Health
Kerr, H., O.B.E., M.D., Ch B. Edin., D P.H. Prof.

Surgery
Angus, H B , M B., M.S , F.R C S. (Lectr in Clin. S) Prof.
Turner, G. G., M B., M.S., F.R.C S., F.A.C.S. (and in Clin S) Lectr.

Clinical Lectrs. :
Martin, A. M., M.B., B.S.
Leech, J. W., M.D., M.S.
Clay, J. (v. Anat.)
Willan, R. J., M.V.O., M B., M.S., F.R.C.S.
Drummond, Hamilton, M.B , B.S.
Pybus, F. C., M.B , M.S., F.R.C.S.
Johnston, H. M , B A , M B. Belf., F.R.C.S.
Barclay, J. H., M.D., M.S., F.R.C.S.
Hodgson, N , M.B., M.S , F.R.C.S.
Hindmarsh, T. A , M.B., M.S., F.R.C.S.

Therapeutics
..... Lectr.
Armison, W. D., M.D., B.S. Lectr. (Electrotherapy).

Zoology, v. Biol.

Dental Science

Lectrs. :
Richardson, E. Y., L.D.S. (D. Anat. and Physiol).
Daniels, J. W., L.D.S. (D. Mechanics).
Lotinga, C , L.D.S. (D. Metallurgy).
Coltman, J., L.D.S. (D. Surg. and Path.).
Walkinsaw, T. R. D., L.D.S. (Op. D. Surg.).
Cooper, E. R., L.D.S. (Orthodontics).
Alderson, W. E., M.D. (D. Anæsthetics).

* Also in Armstrong Coll.

Bolam, J., L.D S. (D. Mat. Med. and Therap).
Laing, A. M., L.D S. (D. Microscopy and Histology).
7 Hon. D. Surgeons, 18 Hon. Asst. D. Surgeons, 1 Anæsthetist, 1 Hon. Radiographer.
Long, J. J., L.D.S. Prosthetic Tutor.
Head, L. H S., L.D.S. Tutorial D. Surgeon.
Phillips, B. J. G., L.D.S. Conservation-Room Tutor.

GENERAL INFORMATION (see also p. 63)

Instruction in Biology, Chemistry, and Physics is given at Armstrong College; in Clinical Medicine and Surgery, etc., in the Royal Victoria Infirmary and other hospitals. Post-graduation teaching is supervised by a committee representing the College and the hospitals. A Research Committee provides facilities for, helps towards financing, and otherwise encourages research work in the College.

LIBRARIES, 13,000 vols. MUSEUMS: Anat , Hygiene, Mat. Med., Path.

MATRICULATION. See Appendix XXI.

SCHOLARSHIPS open to graduate students of the Coll.: £25, £40; Durh. graduates only, £200.

FEES. For Tuition, 5-yrs.' course for M.B., B.S., about £200, including Hospl. Fees, Practical Midwifery, Instruction in Fevers and Vaccination, and Students' Union ; 4-yrs.' course for L.D.S., about £175 ; 5-yrs.' course for B.D.S. about £192. Examns. for M.B., B.S., £30 ; L.D S., £12 ; B.D.S., £23 ; M.D., £5 ; M S., £5 ; D.Ch , £20 ; D.P.H., 10 gs. ; D.Psy , 10 gs. ; B.Hy., 10 gs. ; D.Hy., £20 ; M.D. (for practrs.), 50 gs., including degree fee ; M.D.S., £5. Degree fees for M.B., B.S., £13 : 2s. ; B.D.S., £6 : 16s. ; L.D.S., £3 ; B.Hy., 6 gs. ; D.Hy., £10 ; M.D., £10 ; M.S., 6 gs. ; D.Ch., £10 , Ph.D., £5 ; D.P.H., £3 ; D.Psy., £3.

PUBLICATIONS. *Calendar* ; Students' *Gazette*.

THE YEAR 1923–24

BENEFACTIONS. Public subscriptions, £2216.

NEW BUILDINGS. The new Union Buildings are approaching completion.

RESIGNATIONS. Prof. T. Beattie (Therap.) ; G. J. Crawford (Path.), to take a post in the East London Hospital for Children ; G. A. Clarke (Physiol.), appointed Lectr. in Sheffield ; M. A. C. Buckell, appointed Bacteriologist to the city of Bradford.

STUDENTS. Graduate and research, 6 (women —1) ; undergrad. full-time, 367 (w.—47) ; part-time, 39 (w.—3). Degrees obtained, 76 ; Licenses and Diplomas, 10.

ARMSTRONG COLLEGE, NEWCASTLE-UPON-TYNE

President of the College—Rt. Hon. VISCOUNT GREY OF FALLODON, K.G., D.C.L.

Chairman of Council—C. A. COCHRANE, M.A., D.C.L.

Vice-Chairman of Council—PERCY CORDER, D.C.L.

Principal—Sir THEODORE MORISON, K.C.S.I., K.C.I.E., C.B.E., M.A. Camb., D.C.L.

Registrar and Secy. of Examinations—J. Y. T. GREIG, M.A., D.Litt. Glas.

Bursar—R. N. WILKINSON.

Librarian—F. BRADSHAW, M.A. Oxon, D.Sc. Lond.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Accounting
Bell, Albert, F.C.A. Lectr.
Thomas, J. R., A.C.A. Asst. Lectr.

Agriculture and Rural Economy, v. also Forestry and Vet. Sc.
Gilchrist, D. A., B.Sc. Edin., M.Sc. Prof.
Wheldon, R. W., M.Sc. Lectr.
Pawson, H. C. Lectr.
Findlay, D. H., B.Sc. Glas. Lectr.
Adam, D. T., B.Sc. Aberd. (Land Surv., etc.) Lectr.

Agricultural Botany [Lectr.
Redington, G., M.Sc. Leeds

Agricultural Chemistry
Collins, S. H., M.Sc., F.I.C. Adviser.
Hall, A. A., M.Sc. Liv. and Manc., Ph.D. Jena, F.I.C. Lectr.

Agricultural Mycology
Bennett, F. T., B.Sc. Adviser.

Agricultural Zoology
Gray, R. A. H., M.A., B.Sc. Aberd., M.Sc. Adviser.
Morrison, L., B.Sc. Aberd. Lectr.

Art (School of Fine Arts)
Hatton, R. G., Hon. A.R.C.A. Lond., M.A. Prof. and Dir. of School.
Bullock, R., M.A. Master of Painting and Asst. Dir.
Bertram, R. J. S., M.A. (Design)
Reid, J. M. W., A.R.C.A. (Sculpture).
Weightman, F. N., M.A. (Archit.).
Heslop, A. (Engraving).
5 Assts.

Botany, v. also Agric.
Potter, M. C., M.A., Sc.D. Camb., F.L.S. Prof.*
Blackburn, Miss K. B., M.Sc. Lond., F.L.S. Lectr.
Bartlett, A. W., M.A. Camb., B.Sc. Lond., M.Sc., F.L.S. Lectr.
Thomas, Meiron, B.A. Camb. Lectr.

Chemistry, v. also Agr.
Haworth, W. N., D.Sc. Manc., Ph.D. Gött., M.Sc. Prof.* (Organic C.) and Director of Dept.

Also in Coll. of Med.

Briscoe, H. V. A., D.Sc. Lond., M.Sc., A.R.C.Sc., D.I.C. Prof.* (Inorg. and Physical C.).
Madgin, W. M., M.Sc. Lectr
Robinson, P. L., M.Sc. Lectr.
Mallen, Miss C. E., M.Sc. Lectr.
Leitch, Miss G. C., M.A., B.Sc., Ph.D. St. And. Lectr.
Allpress, C. F., B.Sc. Birm. Lectr.
Hirst, E. L., M.A., B.Sc., Ph.D. St. And. Lectr.
Jolly, V. G., B.Sc., Ph.D. Lond. Lectr.

Classics and Ancient History
Duff, J. Wight, M.A. Aberd., Ox. and Durh., D.Litt. Ox. and Durh., LL.D. Aberd. Prof.
Shipley, Miss C. M., M.A. Lectr.
Waddell, W. G., M.A. Glas. and Lond. Lectr.
Whittick, G. C., B.A. Ox. Lectr.

Crystallography and Mineralogy
Fletcher, M., M.A. Camb. and Durh., M.Sc., F.G.S. Lectr.

Economics, v. also Accounting, Law
Hallsworth, H. M., O.B.E., M.A. Manc., M.Com. D. Dale Prof.
Jebb, Miss G. E. M., M.A. Lectr.
Ford, P., B.Sc. (Econ.) Lond. ,,
M'Callum, E. D., M.A. Glas. ,,

Education
Thomson, G. H., Ph.D. Stras., D.Sc. Prof.
Melville, Ellen L., M.A. Leeds and Durh. Lectr.
Brown, V., O.B.E., M.Sc. Lectr.
Bailes, Stella, B.Sc. Lectr.
..... Lectr.

Engin., Mechanical, Marine and Civil, v. also Nav. Arch.
Hawkes, C. J., M.Sc., A.M.I.C.E., M.I.N.A., M.I.M.E., R.N. (retd.) Prof.
Morrow, J., M.Sc. Manc. and Durh., D.Eng. Liv. Reader.
Hardy, G. F., M.Sc. Lectr.
Hall, J., M.Sc. Lectr.
Dixon, J. T. H., M.Sc. Lectr.
Davies, S. J., B.Sc. Lond., A.M.I.M.E. Lectr.
Martin, H. E. L., B.Sc. Bris. and Lond., A.M.I.C.E. Lectr.
Miller, C. V., B.Sc. Lond. Lectr.
Baker, H., M.Sc. Manc., Ph.D. Birm. Lectr.

Engineering, Electrical
Thornton, W. M., O.B.E., D.Sc. Manc., Liv., and Durh., D.Eng. Liv., M.I.E.E. Prof.
Wilcken, J. A., B.Sc. Copenhagen, Ph.D. La Plata Lectr.
Dickinson, J., M.A. Ox., M.Eng. Sheff. Lectr.

English
Renwick, W. L., M.A. Glas., B.Litt. Ox. J. Cowen Prof.
Wragge, Sybil, M.A. Lectr.
Taylor, A. B., M.A. Ox. Lectr.
Lochhead, J., M.A. Glas. Lectr.

Forestry [Lectr.
Hopkinson, A. D., B.Sc. Aberd.

Geology, v. also Cryst. [Prof.
Hickling, G. A., D.Sc. Manc., M.Sc.
Mockler, G. S., B.Sc. Manc. Lectr.
Allan, B.A., B.Sc. Lectr.
Tomkeieff, Serge Lectr.

History, Modern [Prof.
Morison, J. L., M.A., D.Litt. Glas.
Bradshaw, F., M.A. Ox. and Durh., D.Sc. Lond. Lectr.
Pybus, Miss H. J., M.A. Ox. Lectr.
Whitham, Miss E., M.A. Ox. Lectr.

History, Ancient, v. Classics

Law
Murray-Aynsley, C.M., B.A., LL.B. Camb., Bar.-at-Law Lectr.
Charlesworth, J., LL.D. Lond., Bar. at-Law Asst. Lectr.

Also in Coll. of Med.

Law, Commercial
Fenwick, C. B., M.A. Ox., Bar.-at-Law Lectr.

Mathematics
Jessop, C. M., M.A. Camb. Prof.
Caunt, G. W., M.A. Camb. and Durh., M.Sc. Reader.
Colborne, D. C., M.A. Camb. Lectr.

Mathematics, Applied, and Math. Physics
Havelock, T. H., M.A. Camb, D.Sc., F.R.S. Prof.
Goldsbrough, G. R., D.Sc. Reader in Dynamical *Astronomy* and Lectr. in Applied M.
Miles, W. H, B.A. Ox. Lectr.

Metallurgy
Smythe, J. A., D.Sc , Ph.D. Gott. Wm. Cochrane Lectr.
Pearson, C. E., B Met. Lectr.

Military Science [Lectr.
Currie, Maj. P. J. R., O.B.E., M.C.

Mining
Poole, Granville, B.Sc. Birm., M.I.E.E., F.G.S. Milburn Prof.
Whetton, J. T., B.Sc. Leeds Lectr.
Gilmour, J., M.B., M.S. Lectr. in *First Aid.*

Modern Languages
Latham, A. G., M.A. Lond. and Durh. Prof.
MacGregor, Lilias, M.A. Edin , D. de l'U. Gren. (Fr. and Ger.) Lectr.
Vallette, Jean, B. ès L. Paris (Fr.) Lectr.
Vallette, Mme. L. ès L. Paris Lectr.
Tomlinson, Mme. Asst.
Rees, J. W., B.A. Wales (Spanish) Lectr.

Music
Whittaker, W. G., D.Mus., F.R.C.O Lectr.

Naval Architecture
Welch, J. J., D.Sc., M.I.C.E., M.I.N.A. Prof
Alexander, F. H., M.Sc., M.I.N.A. Reader.

Philosophy, Mental and Moral
Ferguson, A. S., M.A. Ox. and St. And. Prof.
Alderson, Mrs., M.A. Aberd. Lectr.

Physics
Stroud, H., M.A. Camb. and Durh., D.Sc. Lond. and Durh., F.Inst P., M.I.E.E. Prof.*
Todd, G. W., M.A. Camb., D Sc. Birm., M.Sc., F.Inst.P. Prof (Expl. P.).
Bullerwell, J. W., M.Sc. Lectr.
Lunnon, R. G., M.A., B.Sc. Lond., M.Sc. Lectr.
Wood, J. F., M.Sc. Lectr.
Darbyshire, O., M.Sc. Manc. ,,

Religious Knowledge
Fletcher, Rev. M , M.A. Camb. and Durh., M.Sc. Lectr.
Fyffe, Rev. D., M.A Edin. Lectr.

Veterinary Science
Howie, G., F.R.C.V.S. Adviser.

Zoology, v. also Agric. [Prof.*
Meek, A., B.Sc. St. And , D.Sc.
Peacock, A. D., M Sc. Lectr.
Jorgensen, Olga, M.Sc. Lectr.
Harrison, J. W. H., D.Sc. Lectr.
Storrow, B., M.Sc. Naturalist at Marine Lab.
Meek, Edith M., M.Sc. Bio-Chemist at Marine Lab.

University Extension

Tutors : P. Ford and E. D. M'Callum (Econ.) ; W. G. Whittaker (Music) ; The Regr. (Psychology) ; T. Dixon Rutherford, M.A. ; H. M. Spink, M.A., B.Sc. ; S. Middlebrook, B.A. Hon. Sec. to Jt. Committee : P. Ford, B.Sc. [*Continued on p.* 76.

* Also in Coll. of Med.

GENERAL INFORMATION (see also p. 63)

LIBRARY, 41,000 vols. Access to Lit. and Philos. Society's 80,000 vols., and to library of N. of England Inst.M.M.E. Scientific periodicals subscribed for in co-operation with City Public Library. LABORATORIES with special facilities for research in Engineering and Hydraulics; special branches of Chem., Physics, and Agric.; Marine Biology (Dove Marine Lab., Cullercoats).

The Agric. Dept. controls and uses for teaching and research in Agric., Dairying, and Forestry several County and Crown estates, including Cockle Park (Northumberland) Agric. Exptl. Station.

ADMISSION. See Appendices XXI. and XXIII. For admission to study for the College Diploma (i.) in Agric., Mining, or Commerce, or for the Certificate in Fine Art no regular entrance examn. is required; (ii.) in Engineering or Naval Architecture an entrance examn. must be passed unless the student has passed some equivalent examn. (School Certificate standard in Extra Maths., Mechanics, Physics, and Chemistry); (iii.) in Fine Art an entrance examn. in English, and either French, or German, or Spanish is prescribed.

Complete COURSES for the Arts, Science, Law, and Commerce degrees and the Educn. Diploma of the Univ. The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy. The Teachers' Training Dept. trains for both Elementary and Secondary School Work.

College Diplomas in Architecture (5 yrs.), Engineering (3 yrs.), Naval Architecture (3 yrs.), Mining (2 yrs.), Agric. (3 yrs. of 2 terms each), Fine Art (3 yrs.), Commerce (2 yrs.). College Certificate in Fine Art (3 yrs.). Short courses are provided in Agric. (6 weeks and 6 months) and Naval Architecture (6 months).

A *Tutorial System* is established in all Faculties. Each student is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests.

FELLOWSHIPS, ETC. £300 for one year, open to a graduate in Science or Commerce; £150 for two years, open to a graduate of any Faculty; £150 for one year, open to a graduate in Science; £120, open to a graduate in Mining; £150 for one year, open to a graduate in Arts; £75 (two) studentships for one year, open to graduates of any Faculty. The total amount available for post-graduate fellowships, etc., is £1400 p.a.

RESEARCH FUND established in 1923 with endowment of £12,000. Administered by Standing Committees which allocates the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research.

FEES for Tuition for B.A. or B.Com., £30 p.a.; B.Sc., £35 p.a. (in Engin., etc., £40); Diploma in Agric., £22 : 10s.; in Teaching, £35; in Engin., etc., £40; in Fine Arts, £16; in Commerce, £5 : 10s. per subject (in evening classes, £3 a subject). Examns. for B.A. or B.Sc., £7; Students' Societies (men), £2 : 2s., women, £1 : 5s. Registration Annual (Degree students and some others), £2.

UNIVERSITY EXTENSION. Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short courses (winter programme issued in Oct.), lectures in French (Alliance Française), and popular Saturday evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in 16 centres (most of the tutors are regular members of college staff).

PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Annual Report* (Oct.); *The Northerner* (Students'), 5 issues annually.

THE YEAR 1923–24

BENEFACTIONS. Additional £20,000 (anon.) for new Students' Union; additional £200 from Alderman L. T. Penman to increase endowment for scholarship; £500 from Northern Archit. Assocn. to form nucleus of endowment fund for archit. educn.; £500 from J. H. Rennoldson to endow exhibitions in Law; £100 from Newcastle and Gateshead Water Co. to assist research on potable waters.

ORGANIZATION. New degree in Law (LL.B.) established in the Univ., and arrangements made in the College to undertake teaching for this degree in and after 1925.

DEATHS. P. Buckle (Agric. Zool.); D. Woolacott (Geol.). RESIGNATIONS: W. Faid, appointed Prof. of Physics in the Univ. of Hong-Kong; B. M. Griffiths, appointed Reader in Biology in Durham Colleges; F. H. Downie, Lectr. in Elec. Engin., appointed to a post in Metropolitan Vickers, Ltd.; E. C. S. Wade, appointed Vice-Principal, the Law Society's School, London.

STUDENTS. Post-graduation, 78 (women—29), including 58 (w.—26) reading for diploma in Educn.; graduating, Arts, 148 (w.—114); Pure Sc., 214 (w.—60); Engin., 106; Nav. Arch., 24; Mining, 21; Metall., 7; Agric., 15; Commerce, 16 (w.—5); full-time diploma, etc., Mining, 3; Commerce, 4 (w.—2); Educn. (2 yrs. Bd. of Educn. Certif.), 14 (w.—6); Fine Art, 76 (w.—63); total, full-time, 726 (w.—281); part-time, 345 (w.—77); total, all students, 1071 (w.—358).

Continued from p. 74—**University Extension**]

Tutors: Miss G. E. M. Jebb (Econ.); J. Lochhead (Engl.); Miss H. J. Pybus, and Miss E. Whitham (Hist.).

UNIVERSITY OF LEEDS

VISITOR—H.M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, K.G., G.C.M.G. G.C.V.O, LL.D.

PRO-CHANCELLOR—E. G. ARNOLD, LL.D.

VICE-CHANCELLOR—J. B. BAILLIE, O.B.E., M.A. Camb., D.Phil. Edin.

PRO-VICE-CHANCELLOR—Prof. J. KAY JAMIESON, M.B., C.M.

TREASURER—Hon. R. E. BECKETT.

REGISTRAR—A. E. WHEELER, M.A.

ACCOUNTANT—E. J. BROWN, B.Com.

CLERK TO THE SENATE—F. T. BAINES, B.A.

DEAN OF WOMEN STUDENTS—Miss A. SILCOX, B.Sc. Lond.

LIBRARIAN—R. OFFOR, B.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture, v. also Vet. Hyg.

Seton, R. S., B.Sc. Edin. Prof.
McMillan, J. A., B.Sc. Edin. Lectr.
Robertson, G. C. A., M.A., B.Sc. Aberd. Lectr.
Paton, A., B.Sc., N.D.A., N.D.D. Asst. Lectr.
Ruston, A. G., B.A., B.Sc. Lond., D.Sc. (Agric. Econ.) Lectr.
Preston, H., B.Sc. Asst. Science Tutor.
Wood, R. C., N.D.A. Asst. (Farm Costings).
Anderson, O., B.Sc. Asst. (Farm Costings).
Galt, A. S. (Hortic.) Lectr. & Organizer.
Parton, F. W. (Poultry) Lectr.
Pilling, G. F., B.A. Camb., N.D.A. Asst. Lectr.

Dist. Lectrs.:

Thompson, H., B.Sc. Manc., B.Sc.
Strachan, J., M.A., B.Sc. Aberd., N.D.A.
Thompson, J. H., B.Sc. Durh.
Robb, J., B.Sc. Aberd.
Anderson, A. W., B.Sc. Aberd.
McGregor, J., B.Sc. Glas., N.D.A., N.D.D.

9 Instrs. and Asst. Instrs. in Dairying, Hortic., Poultry, and Farriery

Agric. Botany

Millard, W. A., B.Sc. Bris. Lectr.
Bennett, F. T., B.Sc. Lond. Asst. Lectr.
Burr, S. Asst. Lectr.
Chalmers, C. H., B.Sc. Edin., N.D.A. Demr,
Jones, H. R., B.Sc. Demr.

Agric. Chemistry

Comber, N. M., D.Sc. Lond., A.R.C.S., A.I.C. Prof.
Saint, S. J., B.Sc. Lond. Asst. Lectr.
Milne, G., B.Sc. Asst. Lectr.
Jones, H. Trefor, M.Sc., A.I.C. Asst. Lectr.

Agric. Zoology

Taylor, T. H., M.A. R.U.I. Lectr.
Barker, A. S., B.Sc., N.D.A. Asst. Lectr

Anatomy [Prof.
Jamieson, J. Kay, M.B., C.M. Edin. (Dean of Med. Fac.)
Cave, A. J. E., M.B., Ch.B. Manc. Demr.
Inkster, R. G., M.B., Ch.B. Edin.
Morton, W. C., C.B.E., M.A., M.D. Edin. (H)
Richardson, A., M.B. Lond., F.R.C.S. (C.) (H.).
Tasker, R. B., L.D.S., Hon. Demr. in A. for Dental Students.

Bio-Chemistry, v. Physiol.

Botany [Prof.
Priestley, J. H., B.Sc. Lond., F.L.S.
Wager, H., D.Sc., F.R.S. (Mycology) Hon. Lectr.
Walker, N. (Morphol.) Lectr.
Pearsall, W. H., D.Sc. Manc. Reader.
Ewing, J., M.A., D.Sc. Aberd. Asst. Lectr.
Scott, Lorna I., B.Sc. Lond. Asst. Lectr..
Tetley, Ursula (R.).
Pearsall, Mrs. W. H., M Sc. Manc. Temp. Demr.
Rhodes, E., Ph.D., M.Sc. Demr. (Plant Physiol.).
Priestley, Mrs. (H.).
Grist, Mrs., B.Sc. Lond. (H.).
Tupper-Carey, Miss R. M. Research Asst.

Chemistry, v. also Physiol. and Tech.
Whytlaw-Gray, R. W., O.B.E., Ph.D. Prof.
Lowson, W., B.Sc. Lond., B.Sc., F.I.C. (Analyt. C.) Lectr.
Topley, B., B.A. Ox. Asst. Lectr. & Demr.
Gregory, J. C., B.Sc., F.I.C. Asst. Lectr. & Demr.
Burr, May S., D.Sc. ,, ,,
Clark, C. H. D., B Sc. Lond. Asst. Lectr.
Whitaker, H., M.Sc. (R.).
Hume, J., B.Sc., A.I.C. Demr.
Henderson, T., M.A., B.Sc. Demr.

Chemistry, Physical
Dawson, H. M , B.Sc. Lond., Ph.D. Gies., D.Sc. Prof.
2 Student Demrs.

Chemistry, Organic [Prof.
Ingold, C. K., D.Sc Lond., F.R.S.
Dutt, P. K., M.A. Calc., M.Sc., A.I.C. Asst Lectr. & Demr.
Wightman, W. A., B.A. Demr.
Baker, J. W., M.Sc. Lond Demr,
Goss, F. R., Ph D. Lond. (R.).

Classics . [Prof. (Greek).
Ormerod, H. A., M.A. Ox.
Connal, B. M., M.A. Ox. Prof. (Latin).
Bibby, E. E., M A Camb. Lectr.

Commerce, v. Economics

Dental Science, v. *infra*

Economics
Jones, J. H., M.A. Wales Prof.
Shimmin, A. N., M.A Manc. Lectr.
Dower, R. S., M.A. Camb. (Social Organization) Lectr.
Taylor, J. R., M.A. (Ec. Hist.) Lectr.
McCarmick, A. (Acctcy.) Lectr.
Dickinson, H. D., B.A. Camb. Asst. Lectr.
Wilson, Miss Tutor.

Education
Strong, J., C.B.E., M.A. Lond., LL.D. St. And. Prof.
Welpton, W. P., B.Sc. Lond. Lectr.
Monahan, A. J., M.A. Lectr.
Wynn-Jones, Ll., Ph.D. (Expl. E.) Lectr.
Curtis, S. J., B.A. Lond. Asst. M. of Method.
King, W. Norman, M.Sc. Asst. Lectr.
Blackburn, Eliz. M., M.A. M. of Method.
Robson, Winifred F., B.A. Asst. M. of Method

(C.) = Clinical Lectr. (H.) = Hon. Demr. (R.) = Research Asst.

Holgate, Jane, B.A. Asst. Lectr.
Newcomb, Edith, M.A. Asst. Lectr.
..... Art Teacher.
Hoggett, T. J., Mus.B. Durh. Music, etc.
Wall, Miss E. M. Needlework.

Engineering, Civil and Mech.

David, W. T., M.A., Sc.D. Camb., D.Sc. Wales, M.I.C.E., M.I.Mech.E. Prof.
Gilchrist, J., B.Sc. Edin., A.M.I.C.E. Lectr.
Naylor, T. M., B.Sc. Manc., A.M.I.C.E., A.M.I.Mech.E. Asst. Lectr.
Swift, H. W., M.A. Camb., B.Sc., A.M.I.Mech.E. Asst. Lectr.
Colles C., B.Sc. Manc., A.M.I.Mech.E. Demr.
Davies, W., B.Sc. Wales Demr.
Kelly, H. C., B.Sc.Tech. Manc. Demr.
Richardson, S. G. Demr.

Engineering, Elec.

French, W. E., A.M.I.C.E., A.M.I.E.E. Lectr.
Stuart, W. S., B.Eng. Liv., M.Eng. Asst. Lectr. & Demr.

English Lang. and Lit.

Abercrombie, Lascelles, M.A. Liv. Prof. (Lit.).
Tolkien, J. R. R., M.A. Ox. Prof. (Lang.).
Cowling, G. H., M.A. Lectr.
Gordon, E. V., M.A. Ox. Asst. Lectr.
Childe, W. R., M.A. Ox. Asst. Lectr.

French (and Romance Philol.)

Barbier, P., M.A. Lond. Prof.
Gunnell, Doris, M.A., D. de l'U. Paris Lectr.
Soltau, R. H., M.A. Ox. Lectr.
Murray, Jessie, M.A. St. And. Asst. Lectr.
Inebnit, J. P. Asst. Lectr.

Geography

Fawcett, C. B., B.Litt. Ox., M.Sc. Lond. Reader.
Williamson, A. V., B.Sc. Asst. Lectr.
Morgan, M. Kathleen, B.Sc. Wales Asst. Lectr.

Geology

Gilligan, A., D.Sc., F.G.S. Prof.
Versey, H. C., M.Sc. Lectr.
Hudson, R. G., M.Sc. Lond., F.G.S. Asst. Lectr.

German Lang. and Lit.

Gough, C. E., Ph.D. Basle Prof.
Caldwell, Mary C., B.A. Asst. Lectr.
Scott, Alice, M.A. Lond. Asst. Lectr

Hebrew

Blomfield, W. E., B.A., D.D., at Rawdon Coll.

Histology, v. Physiology

History

Grant, A. J., M.A. Camb. Prof.
Sellers, Maud, D.Litt. Reader.
Thompson, A. Hamilton, M.A., D.Litt., F.S.A. Prof. (Mediæval H.).
Dainton, A. H., M.A. Ox. Asst. Lectr.
Richardson, G. W., B.A. Asst. Lectr.

History, Eccles. (Recognized Teacher)

Underwood, A. C., M.A., B.Litt., B.D., at Rawdon Coll.

Law [Prof.

Hughes, J. D. I., M.A., B.C.L. Ox.

Lectrs.:

Haggen, G. L., M.A. Ox., B.C.L.
Burnham, R. E., B.A., B.C.L. Ox. Lectr.
Burrill, H. R., LL.B. (part-time).

Mathematics

Milne, W. P., M.A. Camb., D.Sc. Aberd., M.A. Prof.
Brodetsky, S., M.A. Camb., Ph.D. Leip. Prof. (Appd. Maths.).
Berwick, W. E. H., M.A. Camb. Reader.

Gilham, C. W., M.A. Camb., B.Sc. Lond. Lectr.
Smeal, G., B.Sc. Melb. (Graphics, etc.) Asst. Lectr.
Stoneley, R., M.A. Camb. Asst. Lectr. in Appl. M.

Medicine and Surgery, v. *infra*

Metallurgy, v. Tech.

Mining

Ritson, J. A. S., D.S.O. B.Sc. Durh. Prof.
Brown, T., M.Sc., A.M.I.C.E. Lectr. in Mine Surveying.
..... Lectr. in Met. M. and Ore Dressing.
Bentham, J. Colliery Electrician.

Philosophy

Gillespie, C. M., M.A. Ox. Prof.
Hallett, H. F., M.A. Edin. Lectr.

Physics

Whiddington, R., M.A., D.Sc. Camb. Cavendish Prof.
Allen, A. O., M.A., B.Sc. Lond., A.R.C.S. (Optics) Lectr.
Stoner, E. C., B.A. Camb. Lectr.
Menzies, A. C., B.A. Camb. Asst. Lectr. & Demr.
Ewles, J., M.A. Camb. Asst. Lectr. & Demr.
Long, F. A., B.Se. Lond. Demr.
Watson, Clara, M.Sc. ,,
2 Asst. Demrs.

Physiology and Histology

Shanks, W. F., B.Sc., M.B., Ch.B. Glas. Prof.
Winfield, G., M.A. Camb. Lectr.
..... Lectr.
Botwood, C.A., M.B. Demr. in P.
Wormall, A., B.Sc. (Bio-Chem.), A.I.C. Demr.
..... Demr.
Flint, E. R., M.B., Ch.B , F.R.C.S. (H.) (C.).

Russian Lang. and Lit.

..... Prof.
Kolni-Balozky, J. Lectr.

Russian History and Music

Frere, W. H., D.D. (H.).

Spanish Lang. and Lit.

..... Prof.
Penzol, P. Lectr.

Technology, v. *infra*

Veterinary Hygiene

Bowes, H. G., F.R.C.V.S. Lectr.

Zoology, v. also Agric. [Prof.
Garstang, W., M.A., D.Sc. Ox.
Percival, E., B.Sc. Lectr.
King, Mrs. W. O. R., B Sc. Asst. Lectr. & Demr.
Brown, F. J., M.Sc. Asst. Lectr.
..... Asst.
Garstang, Sylvia, B.A. Ox. (R.).

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Forensic Med. [Prof.
Eurich, F. W., M.D., C.M. Edin.
..... Demr. (H.).

Gynæcology, v. also Obst.

Gough, W., B.Sc., M.B., B.S. Lond., F.R.C.S. Lectr. (C.).
..... Demr. (H.) (C.).

Infectious Diseases

Pearson, A. E., M.R.C.S., L.R.C.P. (C.).

Materia Med., v. Therap.

Medicine and Clin. Med.

Griffith, T. W., C.M.G., M.D., C.M. Aberd., F.R.C.P. (C.) Prof.
Watson, G. W., M.D. Lond., F.R.C.P. (C.).
Vining, C. W., M.D. Lond., D.P.H. (C.).
Burrow, J. Le F. C., M.B. Edin. (H.) in Pharmacology, (C.).
MacAdam, W., M.A., B.Sc., M.D., Ch.B., D.P.H. Med. Tutor and Registrar.

(C.)=Clinical Lectr. (H.)=Hon. Demr. (R.)=Research Asst.

Mental Diseases

Bolton, J. S., M.D., D.Sc. Lond., F.R.C.P. Prof.

Obstetrics and Gynæcology

Oldfield, C., M.D. Lond., F.R.C.S. Prof.
Young, W. M., M.A., M.D. Glas. (C.).
Adamson, Mrs. R., M.D., B.S. Lond. Lectr. (Obst.) (C.).
Croft, E. O., M.D. Durh. (C.).
..... (H.).
Malan, D. J., M.B., Ch.B., B.A.O. Dub. Tutor.

Ophthalmology

Lee, H., B.A., M.B., B.Ch. Camb., F.R.C.S. (C.) Lectr.
Whitehead, A. L., M.B., B.S. (C.).

Otology

Bain, E. W., M.B., B.S. Lond., F.R.C.S. (C.) Lectr.
Munby, W. M., Ch.M. Edin., F.R.C.S. (C.).

Pathology & Bacteriology [Prof.

Stewart, M. J., M.B., Ch.B. Glas. (C.).
McLeod, J. W., O.B E., M.B., Ch.B. Glas. Brotherton Prof. of B.
Fowweather, F. S, M Sc., M.B., Ch.B. Liv. Lectr. (Chem. Path.).
Ross, G. R., M.B., Ch.B., D.P.H. Lectr. in B.
Sutherland, P. L., M.B. Glas., D.Sc. Lectr. (Path. of *Industrial Diseases*).
Gordon, J., M.B., Ch.B. Demr.
Taylor, A. L., M.B., Ch.B. ,,
Gleave, H. H., M.B., Ch.B. ,,
Hickman, Miss E. M., M.B., Ch.B. Demr.
Child, C. H., L.D.S. Hon. Demr. in Dental Path.
Cattley, R., M.B., C.M. Edin., B.Sc., D.P.H. Camb. Hon. Fellow.
Veale, R. A., B.A. Ox., M.D., B.S. Lond. Lectr. in *Dermatology* (C.).
Coupland, J. A., M.B., B.S. Lond., F.R.C.S. (C.) (H.) in Surg. P.
..... (H.) in Clin. P.
Stewart, Mrs., M.B., B.S. Lond. (H.).
..... (R.).

Pharmacology, v. Med.

Pharmacy, v. Therap.

Public Health, v. also Path.

Jervis, J. J., M.D. Edin., D.P.H. Lond. Prof. of P.H. Admn.
..... Demr. (H.).

Radiology and Electro-Therapeutics [Lectr.

Scargill, H. B., M.B , B S. Lond.
Cooper, M. G., B.A., M.D. Belf. Lectr.

Surgery and Clin. Surg.

Moynihan, Sir Berkeley G. A., Bart, K.C.M.G., C.B., M.S. Lond., F.R.C.S. Prof. (C.).
Coupland, J. A., M.B., B.S. Lond., F.R.C.S. (H.).
Symons, H. W., M.B., Ch.B. Clin. Asst.
Chamberlain, D., F.R.C.S., M.B., Ch.M. Clin. Asst.
Daw, S. W., M.B., B.S. Lond., F.R.C.S. Lectr. in Orth. S. (C.).
Dobson, J. F., M.S. Lond., F.R.C.S. (C.).
Seaton, D., M.B., Ch.B. Manc. (Anæsth.) Lectr.
Braithwaite, L. R., M.B. Manc., F.R.C.S. (C.).

Surgery, Operative

Collinson, H., C.B., C.M.G., M.B., M.S. Lond., F.R.C.S. Lectr. (C.)

(C.)=Clinical Lectr. (H.)=Hon. Demr. (R.)=Research Asst.

Therapeutics, Pharm., and Mat. Med.

Telling, W. H. Maxwell, M.D. Lond , F.R C P. ((C.) in Clin. Med.) Prof. of Therapeutics.

Gough, J. H. (P. and M.M.) Demr.

Vaccination

Greaves, F. W. M., M.B. Manc., D.P.H. Instr.

Venereal Diseases

Bibby, J. P., M.B. (C.).

Dental Science

Dental Anatomy and Physiology

Mawer, J. W., L.D.S. Lectr. & (C.).

Crawford, J. K., L.D.S. (H.) (C.)

Dental Mechanics

Rippon, C., L.D.S. Lectr.

Watt, G. V., L.D.S. Tutor

Dental Metallurgy

Lowson, W., B.Sc. Lond., B.Sc., F.I.C. Lectr.

Dental Radiology

Scargill, H. B , M.B., B S. Lectr.

Dental Surgery

Phillips, G. A., L.D.S. Lectr. & (C).

Hey, S. D., L.D.S. (Operative D.S) Lectr. & (C).

The Lectrs. in Dent. Anat. and Physiology, Dent. Mech., and Dent. Metallurgy Lectrs. and (C.).

Leigh, P. T., L.D.S. (C)

Marston, W., L.D.S. (C.).

Saville, D., L.D.S. (C.).

Thorburn, W. S., L.D.S. (C.).

Iles, G. D., L.D.S. (C.).

Wilkinson, G. L., L.D.S. (C.).

Harris, W. S., L.D.S. (C.).

Sykes, J. G., B.Ch.D. Tutor.

3 Hony. Clin. Tutors

Dentistry, Clinical

Palmer, E. K., L.D.S. Demr.

Wells, J., L.D.S. Prosth. Demr.

Technology, v. also Agr., Engin., Mining

Coal, Gas, and Fuel Industries with Metallurgy

Cobb, J. W., C.B.E., B Sc. Lond., B.Sc., F.I.C. Livesey Prof.

Hodsman, H. J., M.B.E., M.Sc., F.I.C. (Gas Chem) Lectr.

Houldsworth, H. S., M.Sc (Refractory Materials) (R) & Asst. Lectr.

Summers, P. F , A R.S.M. (Metall) Asst. Lectr.

Research Chemists :

Wood, J. W., M.Sc. Tech. Manc. (Gas Research).

Parker, A., D.Sc. (Gas Research).

Kerr, H. (Gas Research)

Monkhouse, A. C , Ph.D. (Gas Research).

Howarth, G. B , M.Sc. (Gas Research).

Hoffert, W. H., M A., B.Sc. Ox , A.I.C. (Benzole Research).

Claxton, G , B Sc. (Benzole Research).

Colour Chemistry and Dyeing

Perkin, A. G., F.R.S., F.I.C. Prof.

Forster, R. B., A R C.S.I , Ph D., D.Sc., F.I.C. Lectr. in Colour Chem.

King, P. E. (Dyeing) Lectr.

Cross, E. J , B.Sc. Asst. Lectr.

Leather Industries

McCandlish, D., M.Sc. (Applied Chem) Prof.

Atkin, W. R., M.Sc. Lectr.

Thompson, F. C., M.Sc. Lectr.

Salt, H., M.Sc. Demr.

Procter International Research Laboratory :

Procter, H. R., D.Sc., F.R.S., F.I.C. Hon. Director.

Thompson, F. C., M.Sc. (R.).

Textile Industries

Barker, A. F., M.Sc. Prof.

(C.) = Clinical Lectr. (H.) = Hon. Demr. (R.) = Research Asst.

Hollis, T.	Lectr.	**University Extension**
Yewdall, A.	Lectr.	Staff Tutors: Dainton, A. H., M.A. Ox.; Gibson, G. W., M.A.; Shimmin, A. N., M.A. Manc.; Stewart, D, M.A. N.U.I.; Taylor, J. R., M.A. Edin.; Walker, N.
Pickles, F.	Lectr.	
Speakman, J. B., M.Sc. Manc.	Lectr.	
Farley, W. A.	Asst. Lectr.	
Priestley, G.	Asst. Lectr.	

AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—G. Rees, M.A.) and RAWDON COLLEGE (Principal—W. E. Blomfield, B.A., B.D.). Students are exempt from attendance at the Univ. in the first of the 3 yrs. of study for the B.A. degree.

TECHNICAL COLLEGE, HUDDERSFIELD (Prin.—J. F. Hudson, M.A., B.Sc.). Similar exemption for B.A., B.Sc. (including Engin.), and M.B. and Ch.B.

DIOCESAN TRAINING COLLEGE, YORK. Similar exemption for the B.A. and B.Sc.

PRINTING DEPARTMENT OF THE LEEDS CENTRAL TECHNICAL SCHOOL. Affiliation granted with a view to the recognition of classes as part of the course for the degree of B.Com.

GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

LIBRARY, about 90,000 vols., includes special collections, (*a*) MSS. about Broad Cloth Act of 1740 and illustrating developments in textile industry about 1800; (*b*) 500 vols. in French printed before 1801; (*c*) 264 vols. contemporary records (Journal Officiel, newspapers of Metz, Strasbourg, and Nancy, etc.) of political events in France during 1870 and 1871. MUSEUMS: Anat., Colour Chem. and Dyeing, Materia Med., Path., Textile, Zool. LABORATORIES: Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Physics, Physiol., Textile (116 looms), Zool. OBSERVATORY, 18¼″ reflector telescope. FARM, 312 acres, including Dairy School; Research farm, 350 acres, near Scarborough. HOSPITALS available for Clinics: Infirmary (520 beds) and several others; Asylum (2000 inmates).

FACULTIES. Arts (including Economics and Law), Science, Technology [including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry). *Deans*: Profs. Strong (Educn.), Whiddington (Physics), McCandlish (Leather), Jamieson (Anat.).

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

MATRICULATION. See Appendices XXI. and XXIII. An *Overseas Students'* Committee has been appointed.

DEGREES. Obtainable after a 3 yrs.' course starting from matricn.—B.A.,

B.Sc. (Honours degree usually 4 years), B.Com. (which may be taken with Printing as one of the principal subjects: 3 yrs. for degree, or 4 yrs. inclg. Diploma of Printing Dept. of Leeds Tech. Sch.); LL.B.; after 5 yrs., M.B., Ch.B., B.Ch.D.

Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

Engineering students are advised to get at least one year's practical experience in works before taking up the Univ. course in Civil, Mech., or Elec. Engineering.

Mining students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Honours students of (1) French and (2) German normally spend the 3rd term of the 2nd year at (1) the Univ. of Caen, (2) a Univ. where the medium of intercourse is German.

Honours in Gas Engineering or Fuel and Metallurgy involve 1 yr. of research or special study after taking the ordinary degree; in Leather Manuf., 4 yrs.' study.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' examns. as well as for the Univ. degrees.

HIGHER DEGREES. M.A., LL.M., M.D., Ch.M., 1 yr.; M.Ed., M.Sc., 2 yrs. (for holders of Hons. B.Sc., 1 yr.) after the bachelorship. Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. XXV.) may obtain the M.A., Ph.D. (v. p. 16), or M.Sc. by 2 yrs. of research. Masters of Arts or Science of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

DIPLOMAS. In Education, for graduates, 1 year or 2 yrs. For Teachers of French or German, 2 yrs.' course in Methods of Teaching and Phonetics. In Commerce, 1 yr. (postgrad.). In Social Organization and Public Service, 2 yrs. In Geography, 1 yr. or 2 yrs. In Engin., Fuel and Metall., Dyeing, Textiles, Leather, 3 yrs., reducible under certain conditions to 2. In Gas Engin. or Fuel and Metall., special for graduates, 1 yr.; for apprentices, part-time, 4 yrs. In Colour Chem. and Dyeing, for apprentices, part-time, 5 yrs. In Public Health, 9 mos. In Psych. Med., 6 mos. In Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. In Dent. Surg., 4 yrs., including 2 in Univ.

Agric. Students are prepared for the National Diploma.

EVENING COURSES for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

FEES. Matricn., £2. Registration, £2. Composition fees or tuition (including Union): Arts, £33 a session; Science, £41; Technology, £45; Agric. (other than degree students, who pay the Technol. fee in the 2nd and 3rd yrs.), winter course, £20, summer course, £10; Law courses, 11 gs. a

session. Course for Dipl. in Educn., £42 p.a.; Dipl. in Social Organization, £26 p.a. Medicine: complete course for M.B., including hospl. practice, £215. Dentistry (including hospl. practice and pupilage): Dipl., £234; Degree, £252. Research fee, £12 a session. Examns.: Arts, Science, etc., £6; Medicine (including graduation), £18; Dentistry, B.Ch.D., £16; L.D.S., £14. Graduation fee, £6.

SCHOLARSHIPS, ETC., FOR GRADUATES. Fellowships, £200 for one year, renewable, for research in Gas, and £100, renewable, in Col. Chem.; £150 for 3 yrs. for Textile Research (preference to graduates in Science or Tech. and to natives or residents of Bradford, but not restricted to members of Leeds Univ.); also £150 for 2 yrs. for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics; £70 Scholp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin; £60, Colour Chem. and Dyeing; £20 (three), in Textile Dept.; £25, Forensic Med. and Hygiene.

RESIDENCE. One hostel for 120 men and 4 for women. Fees, men £64, women £56 to £65 per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

An OLD STUDENTS Assocn. was formed in 1923.

UNIVERSITY EXTENSION. Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Assocn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

The Yorkshire Summer School of Geography lasts 2 or 3 weeks. Cerificates are granted.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 4s.; *The Training of Professional Engineers*; Annual Reports of the Univ. and of Tech. Depts.; *Gryphon*, 3s. annually (students' magazine).

THE YEAR 1923–24

BENEFACTIONS. £5000 by Alfred Lund for Scholarships in the Cloth-workers' Departments; £239 for Forsyth Prize; collection of British mosses presented by family of late W. Ingham; various donations of machinery, apparatus, books, etc.

NEW BUILDINGS, ETC. Hostel (Devonshire Hall, formerly Headingley Wesleyan College) for 120 men students; Agric. Dept. building in course of erection (foundation stone laid by Minister of Agric.); staff common rooms; headquarters of Old Students' Assocn.; experimental gas plant opened.

NEW POSTS. Chairs of English, German, Mediæval History, Applied Maths., Agric. Chem., Lectureships in Law, Chemical Pathology, Midwifery, Medical Radiology, and Electro-Therapeutics; Asst. Lectureships in Educn. and Economics.

CHANGES IN REGULATIONS. New ordinance for M.Ch.D.; modification of B.A., B.Ch.D., M.D., and Ch.M. ordinances.

DEGREES CONFERRED. B.A., 84; B.Sc., 145; B.Com., 5; LL.B., 2; M.B., Ch.B., 44; M.A., 16; M.Ed., 6; M.Sc., 4; Ph.D., 4; M.D., 3; Ch.M., 1; Litt.D., 2; LL.D., 1.

STUDENTS. Full-time, reading for first degree, 1050 (including women—305); graduate, 34 (w.—6); others, 391 (w.—90). Part-time, reading for first degree, 6; graduate and research, 23 (w.—2); others, 174 (w.—63). Evening students, 236.

UNIVERSITY EXTENSION. Lectures on Problems of Modern Industry. Tutorial Classes (3 yrs.), 33; Yorkshire summer school of Geography; 585 lectures on Agric., Hortic., Vet. Hygiene, Farm. Econs., and Poultry at 161 centres.

UNIVERSITY OF LIVERPOOL

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL D.

PRO-CHANCELLORS—H. R. RATHBONE, M A., H. WADE DEACON, C.B.E.

VICE-CHANCELLOR—J. GEORGE ADAMI, C.B E , M.D., F.R.S.

TREASURER—C. SYDNEY JONES, M.A.

REGISTRAR—EDWARD CAREY, LL.B.

BURSAR AND ASSISTANT REGISTRAR—S. PRYCE PARRY, M.A.

LIBRARIAN—J. SAMPSON, M.A., D.Litt.

PROFESSORS, LECTURERS, ETC.—January 1, 1925

Anatomy [Derby Prof.
Wood, W. H., B Sc , M.B. Manc.
Simpson, G. C. E , O.B.E , B.A., B.Sc , M.B. Assoc. Prof.
Douglas-Crawford, D., M.B., C.M. Edin., F.R.C.S. (Applied and Surg. A) Independent Lectr.
Johnson, W., M.D. Lond. (Applied and Med. A.) Independent Lectr.
Broad, W. H., M.D. (Physical Anthropology) Lectr.
Richards, D. H. Lectr. & Sr. Demr.
3 Asst. Demrs.

Anthropology, Social ..... Prof.

Archæology, v. also Palæog. and Associated Institutions
Droop, J. P., M.A. Camb. (Classical A.) C. W. Jones Prof.
Peet, T. E., M.A. Ox. (Egyptology) Brunner Prof.
Garstang, J., D.Sc., M.A., B.Litt. Ox., F.S.A. (Methods and Practice of A.) Rankin Prof.
Barnard, F. P , M.A., D.Litt. Ox., F.S.A. (Mediæval A.) Reader.
Newberry, P. E , M A. (Egyptian Art) Reader.

Architecture, v. also Civ. Design, Engin.
Reilly, C. H., O.B.E., M.A. Camb., F.R.I.B.A. Roscoe Prof.
Budden, L. B., M.A., A.R.I.B.A. Assoc. Prof.
Marshall, J. E., B.Arch., M S.A., M.R.S.I. (Building Constn., etc) Sr. Lectr.
Cole, E. R F., B.Arch , A.R I.B.A. (Rendering, etc.) Lectr.
Scott, Sir Giles G , R.A., F.R.I.B.A. (Eccl. Archit) Reader.
Miller, B. A., A.R.I.B.A. (Design) Junr. Lectr.
Williams, J. W. (Constrn.) Junr. Lectr.
Allen, C. J. (Modelling) Recog. Teacher.
Sharpe, C. W., A.R.C.A. (Drawing from the Life) Instr.

Art of the Theatre
Robinson, Lennox
Spl. Lectr., 1924.

Astronomy
Plummer, W. E., M.A. Ox., F.R.A.S. Reader.

Bacteriology, v. Med.

Bio-Chemistry [Johnston Prof.
Ramsden, W., M.A., D.M. Ox.
Coope, R., M.D., Ch.B., B.Sc.
Lectr.

Book-keeping, v. Law

Botany
Thompson, J. McLean, M.A., D.Sc. Glas., F.L.S.
H. Gaskell Prof.
Demrs. and Lectrs. :
Knight, Margery, D.Sc., F.L.S.
Stirling, J., B.Sc. St. And.
Horton, W.
Hon. Lectr. in Plant Path.

Celtic, v. Welsh

Chemistry, v. also Bio-C.
Baly, E. C. C., C.B.E., M.Sc., F.R.S. (Inorg. C.) Grant Prof.
Heilbron, I. M., Ph.D. Leip., D.Sc. Glas., F.I.C.
H. Harrison Prof. (Org. C.).
Lewis, W. C. McC., M.A. Belf., D.Sc., F.Inst.P. (Physical C.)
Brunner Prof.
..... (Analyt. C.) Senr. Lectr.
Kay, F. W., M.Sc. Manc., Ph.D. Berl. (Applied Organic C.)
Senr. Lectr.
Lectrs. and Demrs. :
Guthrie, F. C., M.A. (Inorg.).
Edwards, D. M., B.Sc. (Inorg.).
Griffith, R. O., M.Sc. (Phys.).
Shutt, W. J., M.Sc. (Phys.).
M'Keown, A., M.Sc. (Phys.).
Doran, W., M.Sc., A.I.C. (Organ.).
Keffler, L. P. G., M.Sc. (Inorg.).
Nance, J. T., M.A. ,,
Occleshaw, V. J., M.Sc. ,,
Morton, R. A., Ph.D., B.Sc., A.I.C.
Demrs. :
Rogerson, H., M.Sc. Vict., F.I.C. (Inorg.).
McGookin, A., Ph.D., B.Sc. (App. Org.).

Chemistry, Pub. Health
Roberts, W. H., M.Sc. Assoc. Prof.
Jones, E. Gabriel, M.Sc., F.I.C.
Lectr.

Chinese [Reader.
Parker, E. H., M.A. Manc.

Civic Design
Abercrombie, L. P., M.A., A.R.I.B.A. Lever Prof.
Special Lectrs. :
Prof. Hope (Hygiene).
Brodie, J. A., Assoc. Prof. M.Eng., Past Pres. Inst.C.E., M.I.Mech.E. (Civic Engin.).
Kelly, S. A., F.S.I. (Civic Engin.).
Ward, H. B., M.Sc., M.Eng., A.M.I.C.E. (Civic Engin.).
Mattocks, R. H. (Landscape Design).
Clarke, J. J., M.A. (Law of Housing and Town Planning).

Classics
Campbell, A. Y., M.A. Camb. (Greek) Gladstone Prof.
Gillies, M. M., Ph.D. Edin., B.A. Camb. Junr. Lectr.
Slater, D. A., M.A. Ox. (Latin)
Prof.
Smiley, M. T., M.A. Dub. Lectr.
Chapman, Dorothy, M.A. St. And.
Lectr.
Rees, Frances M., B.A. Wales

Commerce [Chaddock Prof.
Dewsnup, E. R., M.A. Manc.
Dumbell, S., M.A. Lectr.
Allen, J. Sandeman, M.P. (Foreign Trade Procedure, etc.)
Spl. Lectr.
Lissenden, G. B. (Indust. Traffic Management) Spl. Lectr.
Taggart, P., F.S.A. (Accountancy)
Spl. Lectr.
Williams, A. (Banking) Spl. Lectr.

Dentistry, v. *infra*

Economic Science, v. also Com.
..... Brunner Prof.
Macdonald, R. A., M.A.
Lectr. in charge.
Redford, A., M.A., Ph.D. Vict.
Spl. Lectr.
Parry, Eliz. A., M.A. Tutor.

Education, v. also Music
Campagnac, E. T., M.A. Ox. Prof.
Senr. Lectrs.:
Heath, A. E., M.A. Camb.
Paget, G. W., M.A. Camb.
Lectrs.:
Collie, Frances A., M.A. Wales.
Kermode, Helen S., M.A.
Attlee, C. M., B.A. Ox.
Teacher of Drawing:
Laverock, Florence.
Assts. in Method:
Beszant, C. F.
Tuckett, W. J., B.A. N.U.I.
Williams, Catherine A.
Milne, Susan.

Engineering, v. *infra*

English Lang. and Philol.
Mawer, A., M.A. Camb. and Durh. Baines Prof.

English Lit.
Elton, O., M.A. Ox., D.Litt. Durh., LL.D., F.B.A.
King Alfred Prof.
..... A. C. Bradley Prof.
Martin, L. C., B.Litt. Ox., M.A.
Senr. Lectr.
Trenery, Grace R., M.A. Lectr.
Jones, Dorothy, M.A. Tutor.

Entomology [Dutton Prof.
Newstead, R., M.Sc., F.E.S., A.L.S., F.R.S.
Evans, Alwen M., M.Sc. Lectr.
Potts, W. H., B.A. Camb.
Asst. Lectr.

Fisheries, v. Ocean.

French [J. Barrow Prof.
Eggli, J. E., Ag. des L.
Renault, G. E., B. ès A. Dijon
Senr. Lectr.
O'Hagan, Eliz., M.A.
Junr. Lectr.
Ponsard, P., Lic. ès Let.
Junr. Lectr.
Agulhon, Gabrielle, B. ès L.
Tutor.
Jacquemin, Mariette, B. ès L.
Tutor.
Le Gohèrel, A., L. ès L. Tutor.

Geography [Rankin Prof.
Roxby, P. M., B.A. Ox.
Winchester, Lily, M.A., F.R.Met.S.
Lectr.
Ellerton, M. K., Cartographer.

Geology [Herdman Prof.
Boswell, P. G. H., O.B.E., D.Sc. Lond., M.I.M.M., F.G.S.
Double, I. S., M.Sc., F.G.S.
Lectr. & Demr.
Neaverson, E., D.Sc., F.G.S. (Palæont.) Lectr. & Demr.

German
Collinson, W. E., M.A. Lond., Ph.D. (also Hon. Lectr. in Comp. Philol.) Prof.
Picton, Ænid, B.A. Wales
Junr. Lectr.

Hebrew, v. Affild. Instns.

Hellenistic Gk., v. Affild. Instns.

History [Assoc. Prof.
Jones, W. Garmon, M.A.

Hist., Ancient [Rathbone Prof.
Halliday, W. R., B.A., B.Litt. Ox.

History, Eccl., v. Affild. Instns.

History, Mediæval
Coopland, G. W., B.Sc. Lond., M.A., Litt.D. Assoc. Prof.
Howden, Marjorie P., M.A. Lectr.

History, Modern
Veitch, G. S., M.A., Litt.D.
A. Geddes & J. Rankin Prof.
Routledge, F. J., B.Litt. Ox., M.A.
Lectr.
Lackland, Hilda M., M.A. ,,

Italian
Praz, Mario Senr. Lectr.

Law, v. also Civic
Blease, W. Lyon, LL.M., Bar.-at-Law Q. Vict. Prof.
Batt, F. R., LL.M. (Comml. L.) Prof.
Findlay, J., M.A. Ox: Warr Mem. Lectr.
Jones, J. W., M.A., LL.M. (Criminal L., etc.) Lectr.
Thomas, H.H. Judge A. P., B.A., LL.D. Lond. (Internat. L.) Hon. Prof.
Dowdall, H. H. Judge C , K.C., M.A., B.C.L. Ox. (Eccles. L.) (H).
McKnight, R. A., A.C.A. Lectr. (Book-keeping).

Mathematics [[Prof. (Pure M.).
Burkill, J. C., B.A. Camb.
Proudman, J., M.A. Camb., D Sc. (Applied M.) Prof.
Hargreaves, R., M.A. Camb. (Applied M.) Reader.
Street, R. O., M.A. Camb , M.Sc. (Applied M.) Sr. Lectr.
Doodson, A. T., D.Sc. (Analysis of Observations) (H.).
Wilson, B. M., M.A. Camb. M.Sc. Lectr. (Pure M.).
Ince, E. L., M.A. Edin., M.A. Camb. and Dub., D.Sc. Lectr. (Pure M.).
Boole-Stott, Alicia (H.).
Grace, S. F., M.Sc. Lectr. (Applied M.).

Medicine, v. *infra*

Music (Dept. of Education)
Pollitt, A. W., Mus.D. Durh., F.R.C.O., L.R.A.M., A.R.C.M. Lectr.

Naval Archit., v. Engin.

Oceanography
Johnstone, J., D.Sc. Lond. Prof.
Daniel, R. J., B.Sc. Lectr.
Jenkins, J. T., D.Sc. Lond., D.Sc. Wales, Ph.D. Kiel (Sea Fisheries) (H.).
Scott, A., A.L.S. (Econ. Ichthyol) (H.).
Chadwick, H. C., A.L.S. (Marine Biol.) (H.).

Palæography and Diplomatics
Twemlow, J. A., B.A. Ox. Assoc. Prof.

Parasitology, v. also Vet.
Yorke, W., M D. W. Myers Prof.
Southwell, T., A.R C.Sc., F.Z.S. Lectr. (Helminthology).

Philology, Comparative, v. German

Philosophy
Mair, Alex., M.A. Edin. Prof.
Field, G. C., M.A., B.Sc. Senr. Lectr.

Physics [L. Jones Prof.
Wilberforce, L. R., M.A. Camb.
Rice, J , M.A. Belf. Assoc. Prof.
Lectrs. and Demrs. :
Ablett, R., M.Sc.
Edwards, E., B.Sc. Wales, M.A. Tor.
Roberts, R. W., M.Sc.
Stewardson, E. A., B.Sc.

Physiology
Macdonald, J. S., M.A. Camb., F.R.S. Holt Prof.
Duffield, F. A., M.B , Ch.B. Edin. Lectr.
Waller, W. W., B.A., B.M. Ox.
Waller, J. C., M.A. Camb.
Wadsworth, T. W., M.D., D.P.H.
Walker, C. E., D.Sc., M.R.C.S., L.R.C.P. (Histology) Lectr.
Tozer, Frances M., B.Sc. Lond. (Histology & Cytology) Lectr.
2 Junr. Lectrs. and Demrs.

Poetry
De La Mare, W. Spl. Lectr.
Squire, J. C., M.A. Camb. ,, ,,

(H.) = Hon. Lectr.

Protozoology
Macfie, J. W. Scott, M.A. Camb., M.B., D.Sc. Edin. Lectr.

Russian Studies
Boswell, A. B., M.A.
Bowes Prof. of R. Hist. Lang. and Lit.
..... Asst.
Williams, H. W., Ph.D. Mun. (R. Ethnog.) Research Fellow.
Slepchenko, B. S. Recog. Teacher.

Social Studies
Carr-Saunders, A. M., M.A. Ox.
Charles Booth Prof.
Jones, D. Caradog, M.A. Camb.
Sr. Lectr. in Social Statistics.
Black, Ellinor I., B.Sc. Lond.
Lectr. in Social Science.
Parry, Eliz. A., M.A. Spl. Lectr.

Spanish
Peers, E. Allison, M.A. Camb. and Lond. Gilmour Prof.
Alonso, M. Jun. Lectr.

Vet. Science
Share-Jones, J., D.V.Sc., M.Sc., F.R.C.V.S. Dir. of Vet. Studies
Prof. of V. Anat.
Annett, H. E., M.B.E., M.D., D.P.H. (H.).
Elam, C. W., D.V.H., M.R.C.V.S.
Lectr.
Hanna, W., M.D. Belf., D.P.H. Camb. Lectr.
Hughes, H. V., B.V.Sc., M.R.C.V.S., D.V.H.
Junr. Lectr.
Isherwood, R., M.R.C.V.S. Lectr.
Mattinson, A. B., O.B.E., F.R.C.V.S. D.V.S.M. Vict.
Lectr.
Pillers, A. W. N., F.R.C.V.S. (H.) Clin. Vet. Parasitology.
Warburton, F. T., M.R.C.V.S.
Clin. Lectr.
White, C. F., M.B., Ch.B., D.P.H. Vict. Lectr.

Welsh
Davies, J. Glyn, M.A. Assoc. Prof.
Owen, E., Bar.-at-Law, M.A., F.S.A.
(Welsh Mediæval Antiq.) Reader.

Zoology, v. also Entom., Ocean., Parasit., Protoz.
Dakin, W. J., D.Sc., F.Z.S., F.L.S.
Derby Prof.
Bisbee, Ruth C , M Sc.
Lectr. & Demr.
Burfield, S. T., B A. Camb., M.Sc.
Lectr. & Demr.
Fordham, Mahalah G. C., B.Sc. West. Aus. Lectr. & Demr.

Engineering

Watkinson, W. H., M.Eng., M.I.C.E., M.I Mech.E.
Harrison Prof.
Mason, W., D.Sc. Manc., M.I.C.E., M.I.Mech.E. (Strength of Materials) Hughes Prof.
Scholes, G. E., M.B.E., M.Sc. Manc., M.I.Mech.E., M.I.A.E. (Thermodynamics)
Rankin Prof.
Mawson, H., D.Sc. (Eng.) Lond., A.R.C.S., A.M.I.C.E., A.M.I.Mech.E. Sr. Lectr.
Okill, J., M.Eng., M.I.A.E. Lectr.
Kearton, W. J., M.Eng., A.M.I.N.A., A.M.I.Mech.E.
Lectr.
Cole, E. B., B.Sc. Bris. Lectr.
Smith, G., B.Sc. Jr. Lectr.

Civil Engineering
Perrott, S. W., M.A.I. Dub., M.I.C.E. Prof.
Whitaker, H. A., B.Eng., M.Inst.Struct.E. Lectr.

Design [Lectr. & Demr.
Clark, J. J., M.Eng., A.M.I.Mech.E.
Hitchens, A. P., B.Eng., A.M.I.C.E., M.I.Struct.E.
Lectr. & Demr.
Webster, F., M C., M.Eng., A.M.I.C.E. (also Constr. Cold Storages) Lectr. & Demr.

(H.) = Hon. Lectr.

Dock and Harbour Engineering
Wilton, T. R., M.A. Camb., M.I.C.E. Assoc. Prof.

Electrical Engineering
Marchant, E. W., D.Sc. Lond., M.I.E.E. Jardine Prof.
Teago, F. J., D.Sc. Durh., M.I.E.E. (Elect. Machinery) Assoc. Prof.
Prescott, J.C., M.Eng., A.M.I.E.E. Lectr.
Waygood, O. C., M.I.E.E. Lectr.
Brookes, R. C., B.A. Camb., A.M.I.E.E. Junr. Lectr.

Law, Engineering
Gordon, C. G. S., LL.B., M.I.Min.E.

Marine Engineering
Lectrs.: The Harrison Prof. of E., the Prof. of Nav. Arch.

Metallurgy
Bannister, C. O., M.Eng., A.R.S.M., F.I.C. (also Lectr. in Dental M.) Wortley Prof.
Newcombe, J. A., A.R.S.M. Lectr.

Municipal Engineering
Brodie, J. A., M.Eng., M.I.C.E., M.I.Mech.E. Assoc. Prof.

Municipal Electrical Engineering
Dickinson, H., M.I.C.E., M.I.Mech.E., M.I.E.E. Hon. Lectr.

Naval Architecture
Abell, T. B., O.B.E., M.Eng., R.C.N.C. (ret.), M.I.N.A. A. Elder Prof.
Wilson, J. C. M., M.Eng., R.N.C., A.M.I.N.A. Lectr. & Demr.

Railway Engineering
Aspinall, Sir J. A. F., D.Eng., Past Pres. I.C.E., Past Pres. I.Mech.E. Assoc. Prof.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology
Beattie, J. M., M.A. N.Z., M.D., C.M. Edin. Prof.
Ashcroft, L. S., M.B., Ch.B., D.P.H. Lectr.
Shrewsbury, J. F. D., M.B., Ch.B. (Public Health Bact.) Lectr.
Fitch, A. A., M.R.C.S., L.R.C.P. Lectr.
James, G. R., M.B., Ch.B., D.P.H. Garrett Fellow.

Cytology, v. also Physiology
Walker, C. E., D.Sc., M.R.C.S., L.R.C.P. Assoc. Prof.

Dermatology
MacKenna, R. W., M.A., M.D. Edin. Lectr.

Diseases of Children
Fordyce, A. D., M.D. Edin., F.R.C.P. Lectr.

Diseases, Infectious
Rundle, C., O.B.E., M.D. Lond., D.P.H. Lectr.

Diseases, Mental
Reeve, E. F., M.B., B.S. Lond. Lectr.

Diseases, Specific
Wilson, F. P., M.D., M.Sc. Lectr.

Forensic Medicine [Prof.
Buchanan, R. J. M., M.D., F.R.C.P.
MacFall, J. E. W., M.D., D.P.H. (Toxicol.) Lectr.

Hygiene
Hope, E. W., O.B.E., M.D., D.Sc. Edin. Prof.
Mussen, A. A., B.A., M.D. Dub., D.P.H. (Practical San.) Lectr.
Hanna, W., M.A., M.D. Belf., D.P.H. (Admn. and Vaccn.) Lectr.

Laryngology
Guthrie, T., M.D. Hon. Lectr.

Mat. Med. and Pharm.
Marsden, P. H., F.C.S. Lectr.

Medicine
Hay, John, D.L., M.D., F.R.C.P. Prof. & Clin. Lectr.
Clinical Lectrs.:
Bligh, J. Murray, M.D.
Gullan, A. G., M.D. Lond., F.R.C.S.
Macalister, C. J., M.D. Edin., F.R.C.P.

Johnson, W. (v. Anat.).
Matthews, J. C., M.A., M.D. Camb.
Owen, J., T.D., M.D. Lond., D.P.H.
Pemberton, H. S., M.B.

Midwifery and Gynæc.
Bell, W. Blair, M.D., B.S. Lond. Prof. and Clin. Lectr.
Hendry, R. A., M.D., Ch.B. (Obst. and Gyn.) Lectr.
Wilson, J. St. G., M.B., Ch.M. Demr.

Clin. Lectrs. :
Gemmell, J. E., M.B., C.M. Edin.
Ivens, Mary H. F., M.B., M.S. Lond.
Murray, H. Leith, M.D. Aberd.
Willett, J. H., M.D.

Neuro - Pathology of Mental Diseases
Watson, G. A., M.B., C.M. Edin. Hon. Lectr.

Ophthalmology
Chavasse, F. B., M.A., M.D., D.O.M.S. Ox. Lectr.

Pathology
Glynn, E. E., M.A., M.D., C.M. Camb., F.R.C.P. Holt Prof.
Evans, W. Howel, B.Sc., M.B., Ch.B. Lectr.
..... Junr. Lectr.
Owen, D. R., B.A. Camb. M.R.C.S., L.R.C.P. Demr.

Pharmacology, v. also Mat. Med.
Dilling, W. J., M.B., Ch.B. Aberd. Lectr.

Public Health, v. Hyg. and Chem.

Radiology [Lectr.
Holland, C. Thurstan, D.L., Ch.M.

Surgery
Parker, R., M.B., B.S. Lond., F.R.C.S. Prof.
Kelly, R. E., C.B., M.D., B.Sc., F.R.C.S. Prof. and Clin. Lectr.
Jones, Sir Robert, C.B., K.B.E., Ch.M., D.Sc., F.R.C.S. (Orthopædics) Lectr.
Monsarrat, K. W., M.B., C.M. Edin. (Operative S.) Lectr. and Clin. Lectr.
Kennon, R., M.D., F.R.C.S. (Practical S.) Lectr.
Nuttall, H. C. W., M.D., F.R.C.S., D.P.H. Demr.

Other Clinical Lectrs. :
Armour, T. R. W., M.B., C.M. Edin., F.R.C.S.
Douglas-Crawford, D., M.B., C.M. Edin., F.R.C.S. (v. Anat.).
Evans, A. J., F.R.C.S. Edin.
Heaney, F. Strong, M.A., M.D. Dub.
Jones, T. C. Litler, F.R.C.S.
Simpson, G. C. E., B.A., M.B., B.C. Camb., B.Sc., F.R.C.S.
McMurray, T. P., Ch.M. Belf.
Thomas, W. Thelwall, M.B.E., Ch.M., F.R.C.S. (Lectr. in *Tropical Surgery*.
Williams, O. Herbert, M.B. Edin., F.R.C.S., D.P.H. Ox.

Tropical Med.
Stephens, J. W. W., B.A., M.D., F.R.S., D.P.H. Camb. Sir A. Jones Prof.
..... Clinical Pathologist.
Thomas, H. W., M.D., C.M., Director of Research at Manaos (Yellow Fever).
3 Research Assts.

Tropical Diseases of Africa
Blacklock, D. B., M.D. Edin. D.P.H. Prof., and Dir. of Sierra Leone Research Lab.
Gordon, R. M., M.D. Asst. Dir.

Tropical Sanitation
Kennan, R. H., B.A. Dub., M.D., F.R.C.S., D.P.H., D.T.M. Lectr.
Prout, W. T., C.M.G., M.B., C.M. Edin. Hon. Lectr.

Vaccination, v. Hygiene

Dentistry

Dental Surgery
Gilmour, W. H., M.D.S., L.D.S. (Dir. of D. Educn.) Cohen Prof.
Barker, H. E., L.D.S. Demr.
Collinge, J. S. H., L.D S. Demr.
Lyall, G. L., L.D.S. Demr.
Harvey, F. G., B.D.S. Demr.

Anæsthetics
Smith, G. F. R., M.B., B.S. Lond., M.D. Lectr.
Clothier, B., L.D.S. Demr.

D. Anat., Histol., and Physiol.
Woods, J. A., M.D.S., L.D.S. Lectr.
Guyler, T. W. C., B.D.S. Demr.

D. Mechanics [Lectr.
Osborn, L. J., M.D.S., L.D.S.
Newton, A. S., L.D.S. Demr.

D. Metallurgy, v. Met.

Operative D. Surgery
Bennette, H. W. P., M.D.S., L.D.S. Lectr.
Meeson, A. E., B.D.S. Demr.
Lyall, G. L., L.D.S. Demr.

Clin. D. Surgery
7 Lectrs.

Orthodontia
Mountford, E. H., L.D.S. Lectr.
Watkin, H. G., L.D.S. Demr.

University Extension

Secy. to the Univ. Extension Board :
E. Hickinbotham, B.A.

ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, Pinches, T. G., LL.D.; *Numismatics*, Milne, J. G., M.A.; *Central American Arch*, Gann, T. W. F., M.R.C.S., L.R.C.P.

TIDAL INSTITUTE. Established 1919. Administered by a Joint Committee representing the Mersey Docks and Harbour Board and the BIDSTON OBSERVATORY (administered by the same Committee).

ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. R. T. Howard, M.A. Affild. for first year of degree course and, in subjects in which instruction is not provided in the Univ., up to half of the entire course for the B.A.

Recognized Teachers in—*Hellenistic Greek*, Dobson, H. W., M.A.; *Eccl. Hist.*, ...; *Hebrew*, Keith, K. E., M.A.

EDGE HILL TRAINING COLLEGE. Principal, Miss E. M. Smith. Recognized Teachers in—*Maths.*, Smith, Miss E. M.; *English Lit.*, Deakin, Miss M. H., M.A.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, M.A. Recognized Teachers in—*Latin*, Sampson, Miss M., M.A.; *English Lit.*, Healey, Miss M. J., B.A.

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. New Laboratories opened 1920 Ward for Tropical Diseases at Royal Infirmary, Liverpool. Departments with research laboratories at Manaos and Sierra Leone. For training in the conduct of original research and organization of prophylactic measures. Has sent out numerous expeditions to tropical countries. Publishes Memoirs and *Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. Diploma course, 3 months.

PATHOLOGICAL LABORATORY, County Asylum, Rainhill. *Pathologist*, Watson, G. A., M.B., C.M.

GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 95,000 vols., and includes among special collections great series, such as Migne, Pertz, Muratori, and Acta Sanctorum. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne, and Maitland Clubs, and over 100 incunabula, among them the final sheets of the Constitutiones of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Medical and Science Departments.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Bio-Chem., Bot., Chem., Physical and Electro-Chem., Electricity (Applied), Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Expl. Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool, Sierra Leone and Manaos), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab. has been transferred to the Univ. by an Act of Tynwald. HOSPLS. available for Clinics, 4 general and 6 special, containing 1445 beds, which together constitute the clinical school. The trade of the port ensures frequent importations of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Laboratories for research work at prescribed fees.

FACULTIES. (1) Arts (with Schools of Archit., Social Studies, Local History and Records, Russian Studies; Departments of Civic Design, Commerce, and Educn.); (2) Science; (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans:* (1) G. C. Field (Philos.), (2) Prof. Lewis (Chem.), (3) W. J. Dilling (Pharmacology), (4) Prof. Blease, and (5) Prof. Bannister (Metallurgy). Director of Dental Educn., Prof. Gilmour; of Veterinary studies, Prof. J. Share-Jones.

MATRICULATION. See Appendices XXI. and XXIII.

DEGREE COURSES: 3 yrs., B A., B.Com., B.Sc., LL.B.; 3 or 4 yrs., B.Eng. (*plus* 2 yrs.' appr'ship); 5 yrs., B. Arch., M.B., Ch.B., B.D.S., B.V.Sc.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' examns. as well as for the Degree. The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES: Ph.D., v. p. 16. (1) *Graduates of Liverpool in Faculty concerned.* Obtainable after Bachelorship: 1 yr., (after Hons. B.Sc.) M.Sc.; 15 mos., M.Ch. Orth; 2 yrs., M.A., M.Com., (after ord. B.Sc.) M.Sc., M.D., Ch.M., M.H. (Hygiene), M.D.S., M.V.Sc., LL.M., M.Eng. After Mastership: 5 yrs., D.Litt., D.V.Sc., LL.D. After Mastership or Ph.D.: 5 yrs., D.Sc., D.Eng.; 10 yrs., after B.Arch., on distinguished archit. work, M.Arch. (2) *Graduates of approved Univs.* After Bachelorship and 2 yrs.' higher study or

research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Com., M.Sc., M.D., M.H., M.V.Sc., LL.M., M.Eng. The M.A. and M.Com. are also open under certain conditions, to B.Arch. and grads. in Liv. Univ. of a Faculty other than Arts. (3) *Non-Graduates.* After 3 yrs.' higher study or research in Liv. Univ.: M.A. (1 yr. elsewhere), M.Sc., LL.M., M.Eng.

The M.Ch. Orth. is open to grads., other than Med., of this or approved Univs. who are F.R.C.S. (Eng., Ed., or I.) or Fellows of the American Coll. of Surg.

DIPLOMAS. Archæol., 1 yr. course; Archit., 5 yrs.; Civic Design, 1 yr.; Commerce, 3 yrs.; Social Studies, 1 or 2 yrs.; Educn. (for grads.), 1 yr.; Geography, 2 yrs.; L.D.S., 4 yrs.; D.P.H., 1 yr.; D.T.M., 3 mos.; D.M.R.E., 2 terms; D.V.H., 6 mos.; Engin., 2 yrs. after Certif.

CERTIFICATES. Archæology, 2 yrs.' course; separate Arts subjects, 2 yrs.; Architectural Design, 1 yr.; Civic Design, 2 terms; Social Studies, 1 or 2 yrs. (qualification for entry lower than for Diploma course); Educn., 1 yr.; Engin., 3 yrs.; Univ. extension courses, 3 yrs.

FEES. For Matricn., £2. Guild of Undergrads., £2 : 7 : 6 p.a. DEGREE COURSES: B.A., or B.Com. (3 yrs.), £90; M.A. or M.Com. (sessional), £5; B.Arch. (5 yrs.), £150; B.Sc. (3 yrs.), £115 to £160; M.Sc. (sessional), Maths., £5; other subjs., £10; M.B., Ch.B. (5 yrs.), £228; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.H. (2 yrs.), £80; M.Ch. Orth. (15 mos.), £41; B.D.S. (5 yrs. complete course in the University), £250; M.D.S. (2 yrs.), £27 or £32; B.V.Sc. (5 yrs.), £175; LL.B. (3 yrs.), £50; LL.M. (sessional), £5; B.Eng. (3 or 4 yrs.), £144-£192; M.Eng. (Research), £10; Ph.D. (2 yrs.), £27. Apparatus fee per session, M.Sc., M.Eng., Ph.D. in Chem., £20, other subjects except Maths., £10. DIPLOMA COURSES: Archit. (5 yrs.), £150; Civ. Des. day, £35; eveng., £15; Educ. (1 yr.), £20; Com. (3 yrs.), £90; Soc. Studies (2 yrs.), £25; Archæol. (1 yr.), £10; Geography (2 yrs.), 1st yr., £20, 2nd yr., £10; D.P.H. (1 yr.), £45; D.T.M. (3 mos.), £21; D.M.R.E. (2 terms), £24 : 5s.; L.D.S. Liv. (complete course in the University) (4 yrs.), £198; M.R.C.V.S. (4 yrs.), £120; D.V.H. (6 mos.), £21; Eng., £96. CERTIFICATE COURSES: Archit. Des. (1 yr.), £35; Civ. Des. (2 terms), £10; Soc. Studies (2 yrs.), £25; Archæol. (2 yrs.), £30; Educ. (1 yr.), £20; Engin. (3 yrs.), £96-£144.

EXAMN. FEES. M.B. and Ch.B., B.V.Sc., B.D.S., £15; B.Arch., £5; other bachelor degrees, £4; Master's degree (examn. or on application), M.H., 10 gs.; Ch.M., M.V.Sc., M.D.S., £5; others, £3; Doctor's (on application), £10. Diploma examns., L.D.S., £15; Comm., £4; Archæol., £3; Educn., Soc. Studies, Eng., £2; others, £5 or 5 gs. Certifs. Examns., Eng., £6; others, £2. Degree Admission Fees, £5. Dipl. Eng., £3; Certif. Eng., £2; others, £1.

SCHOLARSHIPS, ETC., FOR GRADUATES. Research Fellowships and Scholarships of the aggregate value of over £6000 are offered annually in all faculties; Garrett International Fellowship for Research in Bact., Path., or Physiol. open to members of Univs. and Med. schools in the U.S.A. and of other foreign schools, £100 for 1 yr. with possible extension 2 yrs. (applications by May 31); Johnston Colonial Fellowship of same value, for research in Bio-Chem. with teaching, open to members of Colonial Univs. and Med. Schools, not excluding Colonial candidates with British qualifications (applications by May 31); Lloyd's Register Scholps. in Naval Archit., £100 p.a. for 3 yrs. for British subjects, men, not over 23.

RESIDENCE, ETC. Two hostels for 83 men (fees, £70); one for about 90 women (fees from £63 to £72). Students' Union Club House cost £20,000.

ASSOCIATION OF GRADUATES. Besides the statutory assocn.—"Convoca-

tion "—there is an Old Students' Assocn., the functions of which are mainly social.

A UNIVERSITY EXTENSION Board is responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; Students' Magazine, *The Sphinx*, 6d. (4 numbers per session); *Inaugural Lectures; Report of the Senate upon Research.* Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898–1920, 10s. 6d.

THE YEAR 1923–24

BENEFACTIONS. Wm. Prescott bequest, £20,000 for endowment of Chair, "The Care of Animals—Causation and Prevention of Disease"; Sir Max Muspratt, £5000 for endowment of Dept. of Physical Chem.; Mrs. Alsop, £3000 for endowment of Lectureship in Music (in memory of the late Pro-Chancellor Alsop); Joseph Chadwick, £1200 for endowment of Research Scholarship; Sir Heath Harrison, £2500 for additional endowment of Chair of Organic Chem.; Miss Holt, £2000 for additional endowment of Holt Fellowships in Pathology and Physiology; Anonymous donors, £1000 for research scholarship.

NEW DEPARTMENTS OR POSTS, ETC. Senior Lectureships in Education, in Architectural Engineering and Quantity Surveying, and in Social Statistics; Lectureships in Social Science, in Physiology, and in Applied Physiology; Lady Jones Lectureship in Orthopædic Surgery; Lady Jones Fellowship in Orthopædic Surgery; two Research Scholarships; Bishop Chavasse, Lundie Essay, Lundie Memorial, and F. S. Carey Prizes.

LEGISLATION. Diploma in Geography, Honours degrees in Commerce and in Dentistry, established. Honours Schools of English Literature and English Language merged into one Honours School of English. Ordinances for Medical and Dental Degrees, and L.D.S. re-drafted to include most of the recommendations of the G.M.C.

SPECIAL LECTURES. Under the auspices of the Anglo-American Society: Prof. A. F. Pollard. Series of afternoon and evening Public Lectures.

DEGREES. B.A., 97 (including 78 women); M.A., 28 (w.—10); B.Com., 8 (w.—2); B.Arch., 12; B.Sc., 117 (w.—52); M.Sc., 12 (w.—5); D.Sc., 1; M.B., Ch.B., 91 (w.—17); M.D., 5 (w.—1); B.D.S., 2; B.V.Sc., 3; LL.B., 7 (w.—1); LL.M., 1; B.Eng., 28; M.Eng., 18; Ph.D., 4.

STUDENTS reading for Bachelorship: 1349 (including 502 women); Diplomas and Certificates, 464 (w.—96); Research and Higher Degrees, 219 (w.—45); occasional, 121 (w.—38). Total: 2153 (w.—681).

RESIGNATIONS. Prof. J. Hill Abram (Medicine) (Emeritus Professor); Prof. J. Wemyss Anderson (Eng.-Refrigeration); H. Leslie Roberts (Dermatology); W. Permewan (Laryngology); F. C. Lewis, appointed Asst. Bacteriologist, Birmingham Corporation; T. H. Mawson (Landscape Design); Mr. R. H. Kinvig (Geog.), appointed Lectr. in Birmingham Univ.

UNIVERSITY EXTENSION. Lectures and classes in 27 centres. Extension courses for (i.) Poor Law Officials and (ii.) Teachers in Secondary Schools (Geography). Tutorial classes, 36 (997 students) Christmas lectures to Juveniles (1150). Summer School in Spanish at the Univ. and in Spain (60).

UNIVERSITY OF LONDON

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—Rt. Hon. EARL OF ROSEBERY AND MIDLOTHIAN, K.G., K.T., D.C.L., etc.

VICE-CHANCELLOR—Prof. E. A. GARDNER, Litt.D.

CHAIRMAN OF CONVOCATION—S. L. LONEY, M.A.

PRINCIPAL OFFICER—Sir E. COOPER PERRY, M.A., M.D., F.R.C.P.

ACADEMIC REGISTRAR—EDWIN DELLER, LL.D.

REGISTRAR OF THE COUNCIL FOR EXTERNAL STUDENTS—G. F. GOODCHILD, M.A., B.Sc.

REGISTRAR OF THE UNIVERSITY EXTENSION BOARD—J. LEA, M.A.

FINANCIAL OFFICER and SECRETARY TO THE SENATE—H. CLAUGHTON, C.B.E., B.A.

SUPERINTENDENT OF EXAMINATIONS—F. J. PORT, LL.B.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

REPRESENTATIVE IN PARLIAMENT—E. G. GRAHAM LITTLE, M.D., B.A.

Incorporated Institutions and University Departments

UNIVERSITY COLLEGE, v. p. 113.
KING'S COLLEGE, v. p. 121.
GOLDSMITHS' COLLEGE, v. p. 169.
BROWN ANIMAL SANATORY INSTITN., v. p. 102.
FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS, v. p. 118.
SCHOOL OF ARCHITECTURE, v. p. 118.
INSTITUTE OF HISTORICAL RESEARCH, v. p. 102.
COMMERCE DEGREE BUREAU AND APPOINTMENTS BOARD, v. p. 108.

Associated Institutions (v. next page)

35 SCHOOLS OF THE UNIVERSITY.
24 OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS.

PROFESSORS, READERS, LECTURERS, ETC.

Note.— University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there are "Recognized Teachers of the Univ." For explanation of these terms, see second para. of General Information on p. 101. The names

of teachers of the several subjects will be found in the subsections indicated by symbols as follows:

UNIVERSITY COLLEGE, p. 113 (U)
KING'S COLLEGE, p. 121 (K)

Schools of the University

IMPERIAL COLLEGE, p. 128 (Im.).
EAST LONDON COLLEGE, p. 133 (EL).
BIRKBECK COLLEGE, p. 135 (Bk.).
LONDON SCH. OF ECONOMICS, p. 137 (E).
S.E. AGRIC. COLL., WYE, p. 140 (Ag.).
LONDON DAY TRAINING COLL., p. 141 (Tr.).
SCHOOL OF ORIENTAL STUDIES, p. 142 (O).
KING'S COLL. FOR WOMEN, HOUSEHOLD AND SOCIAL SCIENCE DEPT., p. 124 (KH).
BEDFORD COLL. FOR WOMEN, p. 144 (BW).
ROYAL HOLLOWAY COLL., p. 146 (Ho.).
WESTFIELD COLL., p. 147 (Wf.).
5 THEOLOGICAL SCHOOLS, p. 148 (Th.).
19 MEDICAL SCHOOLS, p. 150 (Med.).

Laws Faculty, p. 164 (Law).
24 *Other Institutions having recognized Teachers*, p. 165 (RI).

Accountancy and Business Methods (E).
Administration, v. Public
Aeronautics (Im., EL).
African Languages (O).
Agriculture (Ag., RI).
Anatomy (U, K, Med.)
Anatomy, Morbid (Med.).
Anthropology, v. also Social A. (U, K).
Arabic (O).
Aramaic (Th.).
Archæology (U, K).
Architecture (U).
Art (Fine Art) (U, K, Ho., RI).
Astronomy (U, Im.).
Astrophysics (Im.).
Aviation (Im., EL).
Bacteriology (K, KH, Med.).
Banking and Currency (E).
Bibliography (K).
Bio-Chemistry (U, Im., Med.).
Biology (Im., KH, Med.).
Botany (U, K, Im., EL, Bk., Ag., BW, Ho., Wf., RI).
Celtic (U).
Chemical Engineering (U, Im.).
Chemical Technology (Im.).
Chemistry (U, K, Im., EL, Bk., Ag., KH, BW, Ho., Med., RI).
Chemistry, Organic (U, K, Im., BW, RI).
Chemistry, Pathological (U, Med.).
Chemistry, Physical (K, Im., BW).
Chemistry, Physiological (Med.).
Chinese (O).
Classics (U, K, EL, Bk., BW, Ho., Wf., Th., RI).
Commerce and Industry (E, RI).
Coptic (U).
Czecho-Slovak (K).
Danish (U).
Dental Science (Med.).
Dutch (U, BW).
Economics (U, E, Bk., KH).
Economic Geography (U, E).
Economic History (K, E).
Education (K, Tr., RI).
Egyptology (U).
Embryology (U).
Engineering—
Aviation (Im., EL).
Chemical Engineering (U, Im.).
Civil Engineering (U, K, Im., EL, RI).
Electrical Engineering (U, K, Im., EL, RI).
Engineering Design (U, Im.).
Heating and Ventilating (U).
Mechanical Engineering (U, K, Im., EL, RI).
Mining and Power Engineering (Im.)

Engineering—Contd.
Municipal Engineering (U).
Optical Engineering (Im.).
Railway Engineering (U).
Surveying (U, RI).
Waterways, Harbours, and Docks (U).
English (U, K, EL, Bk., E, BW, Ho., Wf.).
Entomology (Im., Ag., Med.).
Ethnology (E).
Eugenics (U).
Finance, Public (E).
Forestry (Im.).
French (U, K, EL, Bk., E, BW, Ho., Wf.).
Fruit Culture (Ag.).
Fuel Technology (Im.).
Geography (U, K, EL, E, Bk., BW).
Geology (U, K, Im., EL, Bk., Ag., BW., RI).
German (U, K, EL, Bk., E, BW, Ho.).
Greek, Modern, and Byzantine History (K).
Hebrew (U, K, Th., RI).
Historical Research and Sources of English H. (*v. also p.*) (K)
History (U, K, EL, Bk., E, O, BW, Ho., Wf., RI).
History and Culture of British Dominions in Asia, with Special Reference to India (O).
History and Records of London (U).
History, Imperial (K).
History and Instns., Modern French (U, E).
History, Central European (K).
History of Medicine (U).
History and Method of Science (U).
Horticulture (Ag.).
Household Science (KH).
Hygiene (U, K, KH, Med.).
Indian Economics (E).
International Relations (E).
Italian (U, K, Bk., BW).
Journalism (U, K, BW, E).
Languages, v. African, Arabic, etc.
Law (Law, Bk., E, O, RI)
Librarianship (U).
Logic, v. Philos.
Mathematics (U, K, Im., EL, Bk., BW, Ho., Wf., RI).
Medicine and Surgery (Med.).
Metallurgy (Im., RI).
Meteorology (Im.).
Microscopy (K).
Military Science (U, K).
Mineralogy (U, Im.).
Mining (Im.).
Music (Ho., RI).
Mycology (Ag).
Norwegian (U).
Oil Technology (Im.).
Optical Engineering and Optics (Im.).
Oriental Langs., v. also Semitic, Tibetan (O).
Palæography and Econ. Hist. (K).
Palæontology (Im.).
Pedagogy (K, Tr., RI).
Pharmacology (U, K, Med.).
Philology, Comparative (U, K).
Philosophy, Psychology, and Logic (U, K, Bk., E, BW, Ho., Th.).
Philosophy of Religion (K).
Phonetics (U).
Physics (U, K, Im., EL, Bk., KH, BW., Ho., Med., RI).
Physics, Astronomical (U, Im.).
Physiology (U, K, KH., BW, Med., RI).
Polish (K).
Political Economy, v. Economics
Political Science (E).
Political Theory (E).
Portuguese (K).
Poultry (Ag.).
Protozoology (Med.).
Psychology, v. Philosophy
Public Administration (E).
Public Health (U, K, Med.).
Refractory Materials and Silicates (Im.).
Romance Philology (K).
Roumanian (K).
Russian (K).
Russian Institutions and Economics (E).
Scandinavian (U).
Semitic Languages (U, Th., RI).
Serbian (K).
Shipping (E).
Slavonic Languages (K).
Social Anthropology (E).
Social Science (E, KH. BW).
Sociology (E).
Spanish (K, EL).

Statistics	(U, E).	*Transport*	(E).
Surveying	(U, RI).	*Veterinary* Science (v. also p.)	
Swedish	(U).		(Ag., RI).
Theology	(K, Th.).	*Woods and Fibres, Technology of*	
Thermodynamics	(U).		(Im.).
Tibetan	(U).	*Zoology*	(U, K, Im., EL, Bk., BW,
Town-planning, v. Architecture			Med., RI).

GENERAL INFORMATION

[NOTE. *The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.*]

Central offices—South Kensington, S.W.7. Telegraphic address—University, Southkens, London. Telephone—Kensington 7000.

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs. of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate is empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and is required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition may be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, and the School of Oriental Studies have been admitted in this category.

The Senate has the power also to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions within a radius of 30 miles, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses, to examns. for degrees in all subjects except Medicine, Mining, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical, but the statutes require that "the degrees conferred on both classes of students shall represent as far as possible the same standard of knowledge and attainments."

Since the reconstitution of the Univ., its two original colleges, University Coll. in 1905 and King's Coll. in 1908, have been incorporated in it, the Senate, which is the supreme Univ. body, taking over the responsibility for their administration.

LIBRARIES. The Libraries belonging to and connected with the Univ.

contain in the aggregate about half a million volumes, distributed over every branch of knowledge. The Univ. Library in the Central Building, S. Kensington, contains about 100,000 volumes and pamphlets. It provides well-equipped special collections to promote research work and also serves as a lending library from which students can borrow expensive works for home study. It includes the Goldsmiths' Library of Economic Literature (45,000 vols.), which is restricted to purposes of research and reference. The British Library of Political Science at the London School of Economics has 160,000 vols. There are, in addition, large departmental libraries in the several Colleges and various collections of books on special subjects, too numerous for mention. Access can also be obtained to the library of the British Museum (2½ million printed books), the Record Office, the Royal Colonial Institute Library (150,000 vols. and pamphlets relating to the Empire overseas, including India), and other collections described in *Libraries of London* (v. *infra*—Publications).

MUSEUMS. Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.).

LABORATORIES. The most important are mentioned in the sub-sections relating to the several colleges. The following are not attached to any college:

The Brown Animal Sanatory Institution, 149 Wandsworth Rd., Vauxhall, S.W.8. Superintendent—F. W. Twort, M.R.C.S., L.R.C.P. Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries, any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases of animals are carried on. Both In- and Out-Patients (some 5 or 6 thousand per annum) are treated. Clin. students may be admitted to the Vet. Depts., and Research students are received in the Lab.

The Institute of Historical Research, Malet St., W.C.1, is the University Laboratory of History, devoted exclusively to post-graduate and research work. It is situated close to the British Museum, and consists of a systematically planned series of seminar libraries, provided with the books containing or describing the main sources of mediæval and modern history (especially those whose manuscript originals are in the Record Office and other London Archives). It is open not only to every professor, reader, or other teacher of history in the Univ., and his research students, but to historians, archivists, and teachers and research students from other Univs., approved by the Committee. *Chairman of Committee*, A. F. Pollard, M.A., Litt.D., F.B.A., Prof. of Engl. Hist.; *Secretary* and *Librarian*, H. W. Meikle, M.A., D.Litt., Advisor to External Research Students in History.

FACULTIES. 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans: 1. Bishop Gore (see p. 148). 2. Prof. Butler (Univ. Coll., Classics). 3. Prof. Gutteridge (p. 164) 4. Stewart Macpherson of the R.A.M. 5. Sir Cuthbert Wallace (p. 158). 6. Principal J. L. S. Hatton of East London College. 7. Prof. Lamb (East Lond. Coll.). 8. Prof. Dicksee (Lond. Sch. of Ec.).

Standing Committees of the Senate. The more important are—The Academic

Council, the Council for External Students, the Board to Promote the Extension of Univ. Teaching, the Matricn. Board, the Establ. and Genl. Purposes, Finance, Library, and Scholarships Committees. There are 26 other Committees besides the 43 Boards of Studies.

TERMS for Univ. and Inter-collegiate courses, 1924–25: Oct. 2-Dec. 17, Jan. 15-March 25, April 23-June 25.

DEGREES. B.D., D.D.; B.A., M.A., D.Lit.; LL.B., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.D.S.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Science, Engin., and Econ.)

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Pure Sc., Agric., Hortic., Vet. Sc., and, for External students, Estate Management, and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics; the M.Sc. in Science (including Agric., Vet. Sc., and, for Internal students, Hortic. and Household and Social Science), and, for Internal students, Engineering and Economics.

ADMISSION. The Univ. holds 3 times a year in London and twice a year in certain Provincial centres a Matricn. examn. open to all persons of 16 yrs. of age and upwards. The examn. can also be held by special arrangement in any of the British Colonies or Dominions. Candidates are required to pass on one and the same occasion in 5 subjects: English, Maths., Latin or Greek or a scientific subject, 2 other subjects of which one must, if neither Latin nor Greek is chosen for 3rd subject, be a language. The General School examn. (v. p. 109), if passed in a combination required for Matricn., is equivalent to the Matricn. examn., and several other examns. are also accepted on conditions as exempting from it, namely, those numbered 2, 6, 7, 8(*a*), 8(*b*), 9, 10, 12, 19, in Appendix XX., and Matricn. examns. of the Univs. of Adelaide, Melb., and W. Aust.

STUDENTS FROM OTHER UNIVERSITIES.—The graduates of any of the Univs. of the United Kingdom and of some overseas Univs.* can also claim exemption. Other students of 19 yrs. of age and upwards who present certificates of Matricn. in Colonial Univs. or Indian or foreign certifs. from educational authorities indicating an education equivalent in their own country to that required in England for the Matricn. examn. may apply for *examination under Statute* 116 (in lieu of taking the Matricn. examn.) with special reference to the line of study they propose to follow. This examn., which it has been the practice to hold four times a year, is described on p. 640. Students who do not propose to proceed to a degree are not required to pass any Univ. examn., but must submit evidence that they are sufficiently advanced in their studies.

PERSONS OVER 25 YEARS OF AGE who in virtue of professional qualifications or otherwise are specially qualified to proceed to a Degree course may apply for examn. under Statute 116. See the preceding paragraph.

EXTERNAL students preparing for the Bachelorship undergo Intermediate and Final examns. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc.) to 3 yrs. in all. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

* Namely: In Canada—Alb., Br. Columbia, Dal., King's, Laval, McG., McM. (B.A. only), Manit., Montreal, Queen's, Tor., Vict.; Australasia—Adel., Melb. Qld., Syd., Tas., W.A. (Arts, Sc., Agr., Eng.), N.Z.; S. Africa—Cape, Cape Town, S. Afr., Stell.; India—Aligarh, All., Benares, Bom. (L.M. and S. also recognized), Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Panj., Rang.; Hong-Kong.

EXAMINATIONS IN THE OVERSEAS DOMINIONS. Certain of the examns. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India only the examns. in the Faculty of Theol. are thus held, but the Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at 70 Colonial centres. In Ceylon the Univ. examns. in Science and Arts have also been held under special arrangement; in this latter case with certain modifications of the Regns., such as have made them suitable for the special needs of the Colony in question; with the result that the Ceylon Govt. now awards its scholarships upon the results of these Univ. examns.

An INTERNAL student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first Degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Interm. course generally extends over 1 yr. As a general rule, Honours may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Interm. may be accepted subject to regns. in lieu of a course taken in this Univ.

Any person who has passed the Interm. examn. as an *External* student may be allowed to take the final examn. for the first degree after having attended for 2 years as an Internal student an approved course of study for it, but the degree will not be conferred until a further year's course of approved study has been pursued.

ARTS. In both Interm. and Final (Pass) examns. 2 langs. must be taken, including either Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Sanskrit, or Classical Chinese. The Honours subjects for the Final examn. are Archæol., Chinese, Classics, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psych., Engl., French, Ger., Ital., Portuguese, Span., Slavonic Studies, Indo-Aryan, Arabic, Persian, also Celtic for External students, and, for Internal students, Greek, Latin, Dutch, Scandinavian Langs., Anthropology, Sociology.

The B.A. course in Archit. extends over 5 yrs., but graduates of approved Univs. may be exempted from such part of the earlier years' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class., Hist., Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., and, for Internal students only, in Geog., Comp. Philol., Psychol., and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Honours at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is a *viva-voce* examn.

The D.Lit. is open to M.A.'s and Ph.D.'s only (except as regards students excused under Statutes 113 and 129—v. p. 107), and is conferred for original work; minimum age—30, or 5 yrs. after passing Ph.D. or M.A. examn.

Diplomas. Teacher's, 1 yr. course for graduates and others similarly qualified (also for External students); Fine Art (3 yrs.); Dramatic Art

(2 yrs.); Slavonic studies (2 yrs.); History (4 yrs. part-time or 1 yr. full-time); History of Art (4 yrs. part-time); Journalism (2 yrs.); Literature (4 yrs. part-time or 1 yr. full-time); Town Planning and Civic Archit. or Civic Engin. (2 evenings a week for 2 terms or 1 day a week for 3 terms); Academic Dip. in Geog. (180 hours); External Dip. in Geog.; Sociol., etc. (v. *infra*, Econ.); Librarianship (2 yrs. for day students, 3-5 yrs. for evening students); Academic Dip. in Psychology; Academic Dip. in Theology.

SCIENCE. For the Interm. examn. Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (Pass) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthrop., Milit. Sc., Logic and Method (Ext. students), Statistics (Int. students). An Honours student selects 1 principal and (except in case of candidate for Honours in Human Anatomy and Morphology or in Maths.) 1 subsidiary subject. Internal students may take the B.Sc. "by research" (v. p. 107). For the M.Sc. for Internal students a thesis is required except in Maths.

Among other subjects of advanced study which may be offered by candidates for the M.Sc. degree is "The Principles, History and Methods of Science." University College, King's College, and the Imperial College co-operate in providing a course in this subject.

For the Degree in Agric. the Interm. examn. includes Chem., Bot., Zool., and 1 selected subject; the Final—Agric., Agric. Chem., Agric. Bot., and 2 selected. For the Degree in Hortic. the Interm. subjects are Chem., Bot., Zool., Physics, Geol., and Surveying; for the Final, Practice of Hortic., Book-keeping, Principles of Hortic., and Entom. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order: Prelim. (Inorg. Chem. and Phys.), Interm. Pt. I. (Org. and Applied Chem., Genl. Biol., and Vet. Anat.), Pt. II. (Vet. Physiol.), and Final (Vet. Pathol. and Vet. Hyg.). There is no Doctorate in Agric. or in Vet. Sc., Bachelors of Science (Agric. or Vet. Sc.) being held to be eligible for the ordinary D.Sc. For the Degree in Household and Social Science there are 3 examns.: 1st Interm. (Phys., Inorg. Chem., Biol., and Social and Econ. Hist.); 2nd (Chem.—Org. and Phys., Gen. and Econ. Biol., Principles of Econ.); and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol., and Household Work). For the Degree in Estate Management there are 2 examns., Interm. and Final. Interm.: Pt. I.—Surveying, Econ., and Agric. or Town Planning; Pt. II.—Accounting and Land Law; (Pts. I. and II. may be taken separately). Final: Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II.—Building Construction, and Agric. or Town Planning, and two of—Forestry, Urban Sanitation, Munic. and Local Govt. Law; (Pts. I. and II. may be taken separately).

THEOLOGY. The Interm. course is in Bibl. Langs., Greek, Latin, Psych., and Philos.; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Honours examn. is distinct from the Pass, and may be taken 1 yr. after graduation in Div.; the subjects are Hebrew and Aramaic, including Syriac, Greek N.T. and Apocrypha, Church Hist., Bibl. and Hist. Theol., Study of Religion. Candidates for the D.D. degree must have taken Honours in Theol. in this Univ.

LAWS. The subjects of the Interm. course are Rom. Law, Engl. Const. Law and its Hist., Jurispr., and Crim. Law and Crim. Procedure, *or* Indian Penal Code and Crim. Procedure. Candidates for the LL.D. degree must have taken Honours at the LL.B. examn. or subsequently unless specially exempted.

MEDICINE. The course extends normally over 5½ yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Org. Chem. (the only subject at Pt. I. of the 2nd examn.), Hum. Anat. and Embryol., Physiol., Pharmacol. Pt. II. of the 2nd examn. is normally taken 18 mos. after passing the 1st. In the Final course for the M.B., B.S. degrees the subjects are divided into 2 groups as follows: Group I.—Med., Path., For. Med. and Hyg.; Group II.—Surg., and Obstetrics and Gynæcology. The groups may be taken separately or together, but degrees are not conferred until candidates have passed in both groups.

Institutions outside the U.K. certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees, are accepted by the Univ. of London: Univs. of Bishop's Coll., McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras; Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med., Path., Psych. Med., Midw. and Dis. of Women, State Med., Trop. Med.

The M.S. may be taken in Surg., Dent. Surg., Ophth., or Laryn., Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 years—there are four examns. The subjects of the Final examn. are Dental Surgery, Operative D.S. and Orthodontics.

Diploma in Psychological Medicine.

MUSIC. The subjects for the Interm. examn. are Harmony, Counterpoint, and Hist. of Mus. For the B.Mus. the subjects of examn. are Harmony; Counterpoint, Fugue, and Canon; Free Composition; Hist. of Music; and Musical Analysis. Every candidate for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn., and a musical exercise is also required.

ENGINEERING. Interm. examn. subjects: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing and Design, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed; in *Mining* 6, of which Mining Geol. and Mineral., Mining, Mine Surveying, Mineral Dressing, and Assaying are compulsory; in *Metall.* 6, of which Metall., Metall. Analysis, Metallography and Pyrometry, Electro-Metall., and Fuel and Refractory Materials, are compulsory. For an Honours degree in Engin., Mining, or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken.

ECONOMICS. The subjects for the Interm. examn. are Economics, British Constitution, either Mathematics or Logic and Scientific Method or Elements of English Law, Geog. For the Final—Econ., Hist. of the Great Powers, Political Sc., and a selected subject. Passages are set from French and German works for translation and comment.

For the B.Com. the Interm. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., an approved Modern Lang. Pt. II.—Accounting as applied to Traders and Trading Companies, or a second Approved Mod. Foreign Lang.; Modern Econ. Development of the Empire. The B.Com. examn. is in: the Present Organization of Industry, Banking, Trade, and Transport; Econ. Develop-

ment of the Great Powers; Elements of Comml. Law; Statistical Method; 1 selected group of subjects.

Diplomas. Academic Dip. in Sociology and Social Administration (2 yrs'. course, at least 150 hours in each); Dip. in Economics and Social Sc. (4 yrs.' part-time or shorter full-time course), *either* E. Hist. and Theory, Soc. and Pol. Sc., *or* Conditions of Soc. and Indust. Well-being and of Health—Dip. for Civic workers.

MILITARY EDUCATION. See Appendix I. Military Science is one of the optional subjects for the Interm. and Final (Pass) B.A. and B.Sc. examns. The Officers' Training Corps Contingent supplied 4200 officers for the war, of whom 650 are known to have fallen.

POST-GRADUATE STUDY AND RESEARCH. In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. Under Statutes 113, 113*a*, and 129 External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or Doctor in the several Faculties (but not in Medicine and Surgery), and for the degrees of Master of Arts and Master of Science. Application for registration may be submitted with evidence of graduation, etc., through the authorities of the College, School, or Institution at which the applicant proposes to study, and supported by their certificate of his fitness to undertake a course of study or research with a view to the proposed degree, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School, or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the Session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs. (v. *infra*—Publications).

An Internal student who is a candidate for the Ph.D. degree must have previously graduated in the Univ. in the faculty of Theology, Arts, Science, Engineering, or Economics, or have been registered as a candidate for the degree under Statute 113 or 129. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a Candidate for the Ph.D. degree as an External Student on receiving the approval of the Council for External Students.

The B.Sc. degree, in the Faculties of Science and Econ., may also be taken "by Research" by Internal students under Statute 112. Candidates must have attained the age of 19 and must have passed the Interm. examn. The research must extend over at least 2 yrs.

FEES.—Matric.—2½ gs.; Examn. and Graduation—15 gs. (Med., 29 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

STUDENTSHIPS AND SCHOLARSHIPS. Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Archæology; one of £50 in Physiology; £100 in Arts; £100 in Econ.; £200 for the

man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of post-graduate research. The Gilchrist Trustees provide funds for two Studentships, viz. one of £100 for a woman graduate preparing for a profession; and one in Mod. Langs., £80, open to a B.A. who took Honours in French or German, for a course of study abroad with a view to the profession of teaching. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet obtainable post free on application to the Univ. gives details of many others. In Dec. 1924 it was resolved to institute 2 Univ. *Travelling Scholarships* of £275 each, open to Internal and External graduates in all faculties, and 3 Univ. studentships of £150 each, open to Int. and Ext. graduates in Theol., Arts, Laws, Music, and Engineering. See also next para.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. Offices were opened in 1922 under a Board of Governors at 46 Russell Square, W.C.1, where the work of the Bureau is associated with the general UNIVERSITY APPOINTMENTS BOARD work. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. J. Sargent, M.A.). Prospectus and enquiry forms obtainable on application to the Secretary, H. J. Crawford, B.A.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass Part I. of Final Examn. in Commerce in 1925, and propose to pursue study of Commerce abroad.

RESIDENCE. Hostels recognized by the Senate: Univ. Hall of Residence, 10 and 11 Carlyle Square, Chelsea; Univ. Coll. Hall, Ealing, for 52 men students (fees for residence, 30s. to £3 a week); College Hall, Byng Place, Gordon Square, W.C., for women students; King's Coll. Theological Hostel, Vincent Square; The Platanes, Denmark Hill, S.E., for King's Coll. and its Med. School. Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart's, Guy's and Middlesex Hospl. Med. Schools, the Theological Colleges at Hampstead and Highbury, and the Women's Colleges.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, Malet St., W.C.1. There is also an ASSOCN. OF LONDON GRADUATES. A UNIVERSITY COUNTRY CLUB at Chequers was formed (by a private company) in 1924.

UNIVERSITY EXTENSION DEPARTMENT. The work of the *Board to Promote the Extension of Univ. Teaching* falls under the following heads: (*a*) Univ. Extension Lectures and Tutorial Classes for Working-people; (*b*) Holiday Courses for Foreigners; (*c*) Inspection and Examn. of Schools; (*d*) Examn. for the Certif. in Religious Knowledge; (*e*) Examns. for the Certifs. in Danish, English (for foreigners), French, German, Italian, Norwegian, Russian, Spanish, and Swedish; (*f*) Examns. for Diplomas in History, Literature, Economics and Social Science, History of Art; (*g*) Examn. for Diploma in Psychological Medicine; (*h*) Examn. for Diploma in Dramatic Art.

(*a*) *Univ. Extension Lectures* have been carried on by the Board since 1902, and, prior to that, since 1876, by the London Society for the Extension of Univ. Teaching. By agreement with the Univs. of Oxford and Cambridge the work is restricted to the Metropolitan area. Courses are held, at about 60 centres, on

Hist., Lit., Art, Econ. and Social Sc., Philos., Psychology, and Nat. Sc. A class is held in connexion with each lecture, and students are encouraged to do regular paper-work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 lectures) of a *pioneer* or illustrative character are arranged; in connexion with these there is no examn. Continuous study over several years is encouraged by the Vice-Chancellor's Certif. of Continuous Study (awarded to students who obtain 4 Sessional Certifs. in subjects chosen from certain groups) and by the *Diplomas in the Humanities* (Hist., Lit., Econ. and Social Science, Hist. of Art), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study covering 4 yrs., and pass an examn. on the work of each Session, and a final examn. on the whole course. *Diplomas in History* and *Literature* are also awarded on the result of One Year Full-time study.

The *Tutorial Classes for Working-people* are under the immediate direction of a Joint Committee of 7 members nominated by the Board and 7 nominated by the Workers' Educational Association. The classes extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular paper-work for the Tutor. Certifs. are not awarded. There were 35 classes in 1923–24.

(*b*) A *Holiday Course* for Foreigners is held annually in London during four weeks from the middle of July. Special stress is laid upon Phonetic teaching. The course is designed to widen the student's knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, a choral society, excursions, etc. The total number of students admitted to the course is limited to about 200, and the number in each class to 8. During the 16 years 1904–1914 and 1919–1924 the course was attended by 3970 students from 34 countries.

(*c*) *Inspection and Examination of Schools.* A close relationship between examination and inspection has been carefully and continuously developed by the Univ. Extension Board. The County Councils of Surrey and Middlesex have placed their Secondary Schools to the number of 60 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ. The Board of Educn. and the Univ. inspect alternately and exchange Reports.

Inspection may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as Examinational Inspection, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for Certificates* are held only in Schools inspected by the Univ. or under other approved inspection; the course of study in the school must also be approved. The examns. are of 3 grades: I. Higher, II. General, and III. Junior; for I. the (*a*) Higher School, (*b*) External Intermediate (Arts or Science) Certif.; II. the (*a*) School, (*b*) Matricn., or (*c*) School Commercial Certif.; and III. the Junior School Certif., respectively. Certifs. I. (*a*), II. (*a*), and II. (*c*) are not awarded until the pupil leaves school. The Examn. fees are from 1 to 3 gs.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. (v. p. 4) respectively, and the Certifs. I. (*a*) and II. (*a*) awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it. A candidate who

takes the *Higher* with a view to qualifying for the External Intermediate Arts or Science Certif. offers for examn. the same syllabuses as those of the Ext. Interm. examns. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of 17s. 6d. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age. For Certif. II. (*c*) the combination of subjects required differs from that required for II. (*a*), and the subjects are treated from the commercial standpoint. The Senate have established a Panel of Advisors, consisting of a number of the leading authorities on Comml. subjects, to advise them in matters of policy and principle in connexion with the Scheme.

The *Junior School Examination* is intended for pupils about the age of 15.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science are optional, except in the case of grade I. and in Genl. Elem. Science at grade II., in which they form an essential part of the examn.

(*d*) The *Examination for the Certificate in Religious Knowledge*, instituted in 1909, is held once a year in June. It may be held at certain of the Provincial centres at which the June Matricn. examn. is appointed to be held, as well as in London.

(*e*) *Examinations for the Certificates in French and in German* (instituted in 1913), in *Italian, Russian, and Spanish* (instituted in 1919), and in *Danish, Norwegian,* and *Swedish* (instituted in 1921), are held in July and Aug.; in *English* (for foreigners; instituted in 1920) in Aug. or as may be arranged. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written.

(*f*) The *Examinations for the Diplomas in History*; *Literature*—English Lang. and Lit. or General Lit.; *Economics and Social Science*—either Economic History and Theory, Social and Political Science, or Conditions of Social and Industrial Well-being and Conditions of Health (Dip. for Civic Workers); *History of Art*—are held once a year in Oct. for students who have followed a recognized course of study for 4 yrs. as part-time students or for a shorter period as full-time students.

(*g*) The *Examn. for the Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register. There are two varieties of this Dip., for those desiring to specialize in Mental Diseases and in Mental Deficiency respectively.

(*h*) The *Examn. for the Diploma in Dramatic Art* will be held once a year, beginning in July 1925, and will be open to students of not less than 17 years at Training Schools or Institutions where courses have been approved.

[*Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, South Kensington, S.W.7.*]

PUBLICATIONS. The following are obtainable from the Univ. of Lond. Press, Ltd., 17 Warwick Sq., London, E.C.4:

The Calendar, pubd. in Sept., price 6s. net, postage 9d. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 9d. The Courses are pubd. separately for the several Faculties, The *Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net,

postage 6d.; *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Supplts.; annual subs., including postage, 5s.; single no., 8d. *Matriculation Pamphlet*, issued after each Examn., containing the Regns. and Examn. Papers, 1s. 8d. post free. *Examn.* Papers, published as soon as possible after the several Examns.; prices vary from 1s. 1d. to 3s. 10d. *Libraries of London*: a Guide to Students, by R. A. Rye, Goldsmiths' Librarian, 6d., postage 3d.; 2nd edition, 2s. 6d., postage 6d. *Historical Record of the Univ.*, pubd. in 1912; contains (*a*) a Hist. of the Univ.; (*b*) the Univ. Charters, and Acts of Parliament referring to the Univ.; (*c*) former Fellows; (*d*) Donations and Trusts; (*e*) Graduates; (*f*) persons to whom prizes, etc., have been awarded, and other information of historical interest; 5s. net., postage 6½d. Students' *Union Magazine* monthly, *Vincula* fortnightly.

Regulations. The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and Certificates in special subjects; for Ph.D. Degree; Scholarships pamphlet. Applications for any of these should be addressed to the Principal.

O.T.C. Handbook obtainable from the Secy., 46 Russell Sq., W.C.1.

Regns. for Admission of Students from other Univs. as Candidates for Higher Degrees (except in Med. and Surg.), and *Regns. under Statutes 113a and 125a*, obtainable from the Academic Registrar.

THE YEAR 1923–24

BENEFACTIONS. Grant (in part conditional) by L.C.C. for triennium, £34,800 p.a. *plus* non-recurrent grants of £1000 for libraries and a grant for 1923–24 of £500 for Scandinavian studies at Univ. College; grants for Council year 1924–25, by Middx., £3500, Kent, £2500, Surrey, £2500, Essex, £500, Hertford, £200, Croydon, £300, Southend, £200, East Ham, £100, and West Ham, £10 a head for each full-time day student domiciled in West Ham. Special (additional to the annual) Treasury grants to Univ. College £2500 (for refectory and athletic ground), King's £5000 (for new hostel), and Bedford £2500 (for hostel extension and athletic ground). Grants for Univ. Extension from Court of Common Council, various charities, and Merchant Taylors', Drapers', Goldsmiths', and Cutlers' Companies. The Chancellor, £5000 towards a University Athletic Ground; Laura Spelman Rockefeller Memorial Trustees' gift to London School of Economics, $25,000 for building and $90,000 for research; Miss Agnes Metcalfe's residuary bequest for scholarships in the same School; Cassel Trustees' endowment of Chair of International Relations in the same School for 5 years; G. E. Duveen, £10,000 for lectureship in Otology; F. C. Stoop, £1000 for Dutch studies; Chadwick Trustees, renewed grant for Municipal Engineering and Hygiene; Carnegie trustees, £3000 during the 5 years 1925–29 for School of Librarianship; H. E. Corbett, £500 for Prize at Institute of Historical Research, in memory of Sir Julian Corbett; and various donations for Chemical Engineering.

NEW BUILDINGS. Rockefeller buildings for Anatomy and Physiology completed. Foundation stone of Obstetric Hospl. and Nurses' Home laid by the King and Queen.

NEW POSTS. Chairs of English Law, International Relations, French Lang. and Lit., Education, Medicine, Physics; Readerships in Pharmacology, Statistics, Accounting and Business Organization, Med. Econ. History, Sociology.

IMPORTANT CHANGES IN REGULATIONS AND OTHER DEVELOPMENTS. M.Sc.

Degree instituted in " The Principles, History and Method of Science " ; B.Sc. Degree regns. amended ; new regns. for M.Com. and for Diploma in Dramatic Art ; M.A. degree in Geog. for internal students and Diploma in Theology instituted. Value of the 19 university scholarships increased from £75 to £80. Maudsley Hospital and Bethlem Royal Hospital were admitted as Schools of the Univ. Arrangements were made for uniting the new School for Hygiene (Rockefeller Foundation) with the London School of Tropical Medicine as one School of the University (of Hygiene and Tropical Medicine).

INTERNAL STUDENTS, 8865. Admissions to the Univ. in 1923 without passing the matriculation examn. numbered 1759, including 300 graduates of 67 other Univs. (Camb. 37, Ox. 23, Manc. 14, Wales 19, Glas. 20, Edin. 17, Calc. 19, Panj. 18, Madras 17, Bom. 15). Of those admitted on School Certificates, 455 held Cambridge and 362 Oxford certifs. CANDIDATES AT EXAMNS. : matricn. and registration, 20,813 ; for first degrees, 3013 ; for higher degrees, 344. Students examined finally for degrees : internal, 2080 ; external, 1277.

Visitors from other countries who delivered lectures : Prof. Riccobono of Palermo, Prof. Petsch of Hamburg, Prof. Pirenne of Ghent, Prof. Driesch of Leipzig, Don Jose Castillejo of Madrid, Sir Robert Garran, Prof. Brönsted of Copenhagen, Prof. Brigham of Colgate Univ., Mr. Miller of Ontario, Prof. Millikan of California, Prof. Prince of Boston, Prof. van Wijhe of Groningen, Mr. van Lidth de Jeude and Prof. Zeeman of Amsterdam, M. Halévy of Paris, Prof. Eijkman of Utrecht, Profs. Garter and van der Hoeve of Leiden.

UNIVERSITY EXTENSION courses 156, terminal enrolment 13,066. Work started in 13 new centres, and revived in 5. The total number of courses increased slightly. *Tutorial classes*, 35. Summer school on 4 Saturdays with average attendance of 375. *School Examns.* : 12 schools added to list, making total 332. General school examn. taken by 11,634 candidates. Higher school examn. taken by 1118 candidates. *Holiday Course for Foreigners* attended by 236 students from 24 countries : Switzerland 51, Sweden 41, Denmark 31, Germany 25, Norway 21, France 13, Italy 8, Czecho-Slovakia 6, Japan 6, Finland 5, Hungary 5, Great Britain 3, Latvia 3, Jugo-Slavia 3, Belgium 2, Esthonia 2, Holland 2, Portugal 2, Spain 2, and Austria, China, Poland, Roumania, and the United States, 1 each. In 1925 the course will be from July 17 to Aug. 13.

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE

CHAIRMAN OF THE COLLEGE COMMITTEE—THE VISCOUNT CHELMSFORD, G.C.S.I., G.C.M.G., G.C.I.E., G.B.E.

VICE-CHAIRMAN—Sir JOHN ROSE BRADFORD, K.C.M.G., C.B., C.B.E., M.D., D.Sc., F.R.C.P., F.R.S.

TREASURERS—E. DE Q. QUINCEY; F. V. SCHUSTER, B.A.

PROVOST—Sir GREGORY FOSTER, B.A., Ph.D.

SECRETARY—W. W. SETON, M.A., D.Lit., Dr. J., F.S.A.

TUTOR TO WOMEN STUDENTS—WINIFRED SMITH, B.Sc.

LIBRARIAN—L. NEWCOMBE.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Anatomy

Smith, G. Elliot, M.A. Camb., Litt.D., M.D., M.S. Syd., F.R.C.P., F.R.S. Prof.
Hill, J. P., D.Sc. Edin., F.R.S. Prof. (*Embryol.*).
Perry, W. J., M.A. Camb. Reader (*Cult. Anthrop.*).
Woollard, Herbert, M.D., B.S. Melb. Asst. Prof.
Harris, H. A., M.B., B.S., B.Sc., F.Z.S. Sr. Demr. & Curator.
Kulchitsky, N., M.D. Kharkov Lectr. (*Histology*).
2 Hon. Lectrs. (*Radiology*) and 2 Hon. Research Assts.
5 Demrs. and Assts.

Archæology, v. also Ass., Egyp.

Gardner, E. A., Litt.D. Camb. Yates Prof.

Architecture [Prof.

Richardson, A. E., F.R.I.B.A.
Adshead, S. D., M.A. Liv., F.R.I.B.A. Prof. (*Town Planning*).
Stratton, Arthur, F.R.I.B.A., F.S.A. Reader and Tutor.
Jaggard, W. R., F.R.I.B.A. Lectr. (Building Constn.).
3 Assts.

Art (*Fine Arts*)

Tonks, H. Slade Prof.
Borenius, Tancred, Ph.D. Helsing Prof. (History of Art).
Russell, W. W., A.R.A. Asst. Prof.
Steer, P. W. Asst. Prof.
Mawson, Sidney Lectr.
Porter, A. T., M.A. Camb. Lectr.
Child, C. Koe Sr. Asst.
6 Assts.

Assyriology

Pinches, T. G., LL.D. Glas. Lectr.

Astronomy, v. Maths.

Bio-Chemistry, v. Physiol.

Botany

Oliver, F. W., M.A. Camb., D.Sc., F.R.S. Quain Prof.
Hill, T. G., A.R.C.S. Reader (Plant Physiol.).
Haas, P., Ph.D. Freib., D.Sc. Reader (Plant Chem.).
Salisbury, E. J., D.Sc. Reader (Plant Ecol.).
Smith, Winifred, B.Sc. Lectr.
Cutting, E. M., M.A. Camb. Sr. Asst.
3 Assts.

Celtic
Flower, R. E., B.A. Ox. Lectr.

Chemistry
Collie, J. Norman, Ph.D. Würz., LL.D. Glas., D.Sc. Liv. and Belf., F.R.S.
Prof. (Organic C.) and Dir. of Labs.
Donnan, F. G., C.B.E., M.A., Ph.D. Leip., D.Sc. Liv., F.I.C., F.R.S. Prof. (General C.).
Brady, O. L., B.A. Cape, D.Sc., F.I.C. Reader (Org. C.).
Garner, W. E., M.Sc. Birm. and Lond. Reader (Physical C.)
Evans, H. J., B.Sc.
Sr. Lectr. (Med. Students).
Goodbody, F. W., B.A. Dub., M.D. Lectr. (Med. C.).
Barratt, S., B.A. Asst. Lectr.
Terrey, H., B.Sc. Asst. Lectr.
Gilbert, L. F., B.Sc. Asst. Lectr.
Bailey, C. R., B.Sc. Asst. Lectr.
Sowerby, A. L. M., B.A., M.Sc. Asst. Lectr.
Day, J. N. E., B.Sc., A.R.C.S., A.I.C. Asst. Lectr.
Thierry, E. H., M.Sc. Asst. Lectr.
1 Asst.

Chemical Engineering
Williams, E. C., M.Sc. Manc. Ramsay Prof.
Moore, Burrows, M.Sc., Ph.D., F.I.C. Asst. Lectr.

Classics
Platt, J. Arthur, M.A. Camb. Prof. (Greek).
Butler, H. E., M.A. Ox. Prof. (Latin).
Solomon, L., M.A. Ox. Sr. Lectr.
2 Assts.

Danish, v. Scand.

Dutch History
Geyl, P., Lit.D. Leyd. Prof.

Dutch Lang. and Lit.
Harting, P., Lit.D. Utrecht Reader.

Economics, v. Polit.

Economic Geography
Lyde, L. W., M.A. Ox. Prof.
Shackleton, Margaret R., B.A. Sr. Asst.
Matthews, H. A., B.A. Asst. Lectr.
Forde, C. D., B.A. Asst. Lectr.

Egyptology and Coptic
Petrie, Sir Flinders, D.C.L. Ox., LL.D. Aberd., F.B.A., F.R.S. Edwards Prof.
Murray, Margaret A. Asst. Prof.
1 Hon. Asst.

Embryology, v. Anatomy

Engineering, Electrical
Fleming, J. A., M.A. Camb., D.Sc., F.R.S. Pender Prof.
Clinton, W. C., B.Sc., M.I.E.E. Asst. Prof.
Hawkins, C. C., M.A. Ox., M.I.E.E. Lectr.
Barlow, H. E. M., B.Sc., Ph.D. Lectr. (Design).

Engineering, Civil and Mechanical
Coker, E. G., M.A. Camb., D.Sc. Edin., F.R.S., M.I.C.E. (*Dean*) Prof.
The Prof. of Munic. Eng. Reader (Surveying).
Lloyd-Evans, B. J., B.Sc. Sr. Lectr.
Davidge, H. T., B.Sc., M.I.E.E. Sr. Lectr.
Barker, A. H., B.A., B.Sc. Lectr. (Heating and Ventilating).
Cookson, A. C., M.I.C.E. Lectr. (Railway E.).
Cunningham, Brysson, D.Sc. Belf., B.E. N.U.I., M.I.C.E. Lectr. (Waterways, Harbours, and Docks).
Sprague, E., A.M.I.C.E. Sr. Asst.
Webb, A. E., B.Sc., A.M.I.C.E. Sr. Asst.
Collins, H. J., M.Sc. Birm. Asst. Lectr.
1 Hon. Research Asst., 4 Assts.

Engineering, Municipal
Ormsby, M. T. M., A.R.C.S. Dub., M.I.C.E.I. Chadwick Prof.
Knight, B. H., B.Sc., A.M.I.C.E. Asst. Lectr.

English [Quain Prof.
Chambers, R. W., M.A., D.Lit.
Sisson, C. J., M.A. Edin., D.-ès-L. Dijon Reader.
Grattan, J. H. G., B.A. Sr. Lectr.
Blackman, Elsie, M.A. Sr. Lectr.
Doughty, O., M.A., B.Litt. Ox. Sr. Lectr.
Foster, Sir Gregory, B.A., Ph.D. Stras. Lectr.
Baker, E. A., M.A., D.Lit. Lectr.
3 Assts.

Eugenics, Applied Statistics and
Pearson, Karl, M.A. Camb., LL.D. Aberd. and St. And., F.R.S. Galton Prof.
Greenwood, M., M.R.C.P., M.R.C.S. Reader (Med. Stats.).
Elderton, Ethel M. Asst. Prof., Galton Research Fellow.
Stocks, P., M.A., M.D., B.Ch. Camb., D.P.H. Med. Officer.
6 Assts. and 3 Hon. Research Assts.

French, v. also Hist.
Brandin, L. M., M.A., Ph.D. Greifs. Fielden Prof.
Mackie, Marie D. Lectr. (and at Bedford Coll.).
Jeaffreson, J. W., B.A. Sr. Asst.
4 Assts.

Geography, v. also Ec.
Garwood, E. J., M.A., Sc.D., F.R.S. Yates - Goldsmid Prof. (Physical G.).
Lyde, L. W., M.A. Ox. Prof. (Economic G.).
The Prof. of Munic. Engineering Reader (Surveying).
3 Assts.

Geology and Mineralogy
Elsden, J. V., D.Sc. Lectr.
Goodyear, Edith, B.Sc. Sr. Asst.
1 Demr.

German
Priebsch, R., Ph.D. Graz Prof
Robertson, J. G., M.A., B.Sc. Glas., Ph.D. Leip. Prof
Perrett, W., B.A., Ph.D. Jena Reader
2 Assts.

Hebrew, v. also Semitic
..... Goldsmid Prof.

History, v. also Art
Montague, F. C., M.A. Ox. Astor Prof. (Mediæval & Modern H.).
Pollard, A. F., M.A. Ox., Litt.D. Manc., F.B.A. Prof. (English H.).
Davis, Eliza Jeffries, M.A. Reader (London H.)
Aston, Maj.-Gen. Sir George, K.C.B. Lectr. (Military H.).
Bolland, W. C., M.A. Camb. Lectr. (Sources of Legal H.).
Temperley, H. W. V., M.A. Lectr. (Diplomatic H.).
Seton, Walter W., M.A., D.Lit., F.S.A. Hon. Lectr. (Scottish H.).
Adair, E. R., M.A. Camb. Sr. Asst. and Tutor to Civil Service Students.
Thornley, Isobel D., M.A. Asst. Lectr.
Neale, J. E., M.A. Liv. ,, ,,
Vaucher, Paul, L.-ès-L. Paris Prof. (Mod. *French* H.).
Cary, M., M.A., D.Litt. Ox. Reader (Ancient H.).
Baynes, Norman H., M.A. Ox. Reader (Roman Empire).
3 Assts.

History and Method of Science
Wolf, A., M.A. Camb., D.Lit. Prof. (Logic & Scientific Method).
Singer, C., D.M., D.Litt. Ox., F.R.C.P. Lectr. (H. of Medicine).
2 Hon. Research Assts.

Hygiene and Public Health
Delafield, M. E., M.A., M.B.
Acting Head of Department.
Foulerton, A. G. R., F.R.C.S., D.P.H. Camb. Lectr.
1 Asst., 1 Demr.

Italian [Prof.
Cippico, Senator A., Dr. J. Graz.
Gardner, E. G., M.A., Litt.D. Camb.
Prof. (Early I. Lang. and Lit.).
1 Asst.

Journalism [Tutor.
Solomon, Laurence, M.A. Ox.

Law, v. p. 164

Librarianship
Baker, E. A., M.A., D.Lit.
Director and Lectr.
Newcombe, L. Asst. Dir.
8 Assts.

Mathematics (Applied) and Mechanics
Filon, L. N. G., B.A. Camb., M.A., D.Sc., F.R.S. Prof.
The Senior Lectr. (Davidge) in Civil and Mech. Engin.
Harris, H. J., B.A. Sr. Lectr.
Jessop, H. T., M.Sc. Sr. Lectr.
Gregory, C. C. L., M.A. Camb., F.R.A.S.
Asst. Lectr. (*Astronomy*).
2 Assts.

Mathematics (Pure) [Astor Prof.
Jeffery, G. B., M.A., D.Sc.
Wren, T. L., M.A. Camb.
Reader (Geom.).
Titchmarsh, E. C., B.A. Ox.
Sr. Lectr.
Harris, H. J., B.A. Sr. Lectr.
Howland, R. C. J., M.A., M.Sc.
Sr. Lectr. to *Engineering* students.
Wood, Florence M., M.A.
Sr. Asst.
1 Hon. Research Asst. and 2 Assts.

Military Science [Lectr.
Phillips, Lt.-Col. G. P. A., O.B.E.

Norwegian, v. Scand.

Pharmacology
Clark, A. J., M.D., B.A. Camb., F.R.C.P., D.P.H. Prof.
Dreyer, N. B., B.A., Ph.D. Asst.

Philology
Thomas, F. W., M.A., Ph.D.
Lectr. (Comparative P.).
Priebsch, R., Ph.D.
Prof. (Germanic P.).
Brandin, Louis M., M.A., Ph.D.
Prof. (Romance P.).

Philosophy and Psychology
Hicks, G. Dawes, M.A., Litt.D. Manc., Ph.D. Leip.
Prof. (Philos.).
Spearman, C., Ph.D. Leip.
Grote Prof. (Mind & Logic).
Flugel, J. C., B.A. Ox. Sr. Lectr.
Philpott, S. J. F., B.Sc.
Asst. Lectr.
3 Assts. and 2 Hon. Demrs.

Phonetics
Jones, Daniel, M.A. Camb. Prof.
Perrett, W., Ph.D. Jena, B.A.
Reader (German).
Armstrong, Lilias E., B.A.
Sr. Lectr.
Jones, S., B.Sc. Wales
Laboratory Supt.
Ward, Ida C., B.Lit. Durh.
Sr. Asst.
Lloyd-James, A., M.A. Camb.
Sr. Asst.
Coustenoble, Hélène Sr. Asst.
Quick, Edith E., B.A. Sr. Asst.
4 Assts.

Physics [Prof.
Porter, A. W., D.Sc. Melb., F.R.S.
Orson-Wood, D., M.Sc., A.R.C.S., F.I.P. Sr. Lectr.
Richards, R. C., B.A. Camb., M.Sc.
Quain Lectr.
Smith, J. H., M.Sc. Liv.
Asst. Lectr.

Bates, L. F., B.Sc. Bris., Ph.D. Camb., F.Inst.P. Asst. Lectr.
Eumorfopoulos, N., B.Sc. Hon. Research Asst.
4 Assts.

Physiology
Hill, A. V., O.B.E., M.A., Sc.D. Camb., F.R.S. Jodrell Prof.
Drummond, J. C., D.Sc., F.I.C. Prof. (*Bio-Chem.*).
Harris, D. T., M.B., B.S. Wales, Ch.B. Manc., B.Sc. Asst. Prof.
Anrep, G. V., M.D. Petrograd, D.Sc. Sr. Asst.
Cannan, R. K., M.Sc. Sr. Asst. (Chem. P.).
6 Assts., 4 Hon. Assts., 5 Demrs.
Starling, E. H., C.M.G., M.D., B.S., Sc.D. Camb. and Dub., F.R.C.P., F.R.S. Foulerton Prof. (Royal Soc.).

Political Economy
Foxwell, H. S., M.A. Camb., F.B.A. Prof.
Higgs, H., C.B., LL.B. Newmarch Lectr.
Hooker, R. H. Jevons Lectr.

Scandinavian Studies [Director.
Prof. Robertson (German)
Helweg, J. H., Cand. Mag. Copenhagen Lectr. (Danish).
Gröndahl, I. C., Cand. Mag. Christiania Lectr. (Norwegian).
Björkhagen, Im., Phil. Lic. Upsala Lectr. (Swedish).

Semitic (North) Epigraphy
Hirschfeld, H., Ph.D. Stras (Goldsmid Lectr. in Hebrew) Lectr.
Statistics, v. Eugenics

Tibetan
Thomas, F. W., M.A. Camb., Ph.D. Munich Reader.

Town Planning, v. Archit.

Zoology and Comparative Anatomy
Watson, D. M. S., M.Sc. Manc., F.R.S. Jodrell Prof.
Fraser, Elizabeth, D.Sc. Sr. Lectr.
3 Assts.

GENERAL INFORMATION

Address—Gower St., W.C.1. Telegrams—University College, London. Telephone—733 Museum.

Founded in 1826 and opened Oct. 1, 1828, under the name of "The University of London," the College was incorporated as "University College London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London.

LIBRARIES (containing, in all, 200,000 bound volumes and pamphlets): (1 General, including Barlow (Dante), Blackburn (Law), Carnegie (American History and Institns.), Field (Fine Art), Graves (Maths.), Leighton (Philos. Morris, Quain (Law), Ricardo (Polit. Econ.), Strong (Oriental), and Whitley Stokes (Celtic) collections, and the Bentham MSS.; (2) Science, including Fownes (Chem.), Graham (Chem.), and Grant (Zool.) collections, and an exceptionally complete collection of scientific journals; (3) Medical Sciences including Sharpey (Anat. and Physiol.) collection; (4) Special Arts Libraries for: Archit., Classical Archæol. (Yates), Classics and Anc. Hist., Egyptol (Edwards), English, French, German, Hist., Jewish Hist. and Antiq. (Mocatta) Librarianship, London Hist., Philos. and Psychol., Phonetics, and Scandinavian.
MUSEUMS. Anat., Bot., Chem., Egypt., Engin., Geol. and Mineral., Math Zool. Two Astron. OBSERVATORIES.

FACULTIES. Arts, Laws, Science, Engineering, Medical Sciences. Deans

Prof. Hicks (Philos.), G. H. Hurst, Prof. Porter (Physics), Prof. Coker, Prof. Clark (Pharmacology).

COURSES. Arts, Laws, Science, Engineering, Medical Prelim. and Intermediate, Hygiene. Open to students of both sexes. The Arts Faculty includes Slade School of Fine Art, School of Librarianship, School of Journalism, and Bartlett School of Archit. The Engineering Faculty includes Departments of Civil and Mechanical (with sub-depts. of Graphics, Surveying, and Heating and Ventilating), Electrical and Municipal Engineering. A *Diploma* in Engin. is given after a 3 yrs.' course, and *Certificates* in Engin. (2 yrs.); a Diploma in Archit. (5 yrs.) and a Certificate in Archit. (3 yrs.).

All departments of the College are available for POST-GRADUATION AND RESEARCH WORK, and the respective Professors are always prepared to advise such students desirous of undertaking research, whether for higher degrees or otherwise.

DEPARTMENT OF APPLIED STATISTICS. The *Francis Galton Laboratory for National Eugenics* was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. It is open to Research students in Eugenics of both sexes. The *Drapers' Company's Biometric Laboratory*, founded 1895, for the statistical study of biological problems, possesses a good collection of calculating machines, integrating mechanisms, moment-finders, as well as a large series of statistical models, etc. Research workers can start any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths.

Courses of Instruction are given on Statistics and cognate subjects, and also short courses of popular lectures. Fees (for Research workers): per Term, £4 : 14 : 6. A Fee of 17 gs. per session admits to the Eugenic and Biometric Labs. on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculating machines, 1½ gs. per term. For list of publications, v. *infra*.

THE BARTLETT SCHOOL OF ARCHITECTURE was established by the combination of the Archit. Schools of University and King's Colleges. The Certificate (3 yrs.) and Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final examns. respectively. The accommodation includes three large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town-Planning instituted in Oct. 1914. The day work is supplemented by evening classes in design. There is an Atelier for graduates and advanced students.

FOREIGN STUDENTS are admitted to the College on the same terms as British. They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director: Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing. Special courses in Aspects of British Life and Civilization take place *throughout the session*. The Secretary will always advise foreign students by correspondence or personal interview as to the cost of residence in London and as to suitable houses. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places; four Fellows from overseas are now working there.

FEES. Composition for 3 sessions' course in Arts—98 to 105 gs.; 5 sessions' course in Archit.—228 gs.; B.Sc.—135 to 140 gs.; Engin.—168 gs.; Econ.—21 gs. per session; Med. for 1st examn.—35, 2nd—80 gs.; Laws—Day 24 gs.,

Evening 18 gs. per session; Fine Art—28 gs. per session; for Higher Civil Service—50 gs.

SCHOLARSHIPS, ETC. Annual value, £2400.

RESIDENCE. A Hall for 52 men at Ealing, £2 to £3 a week. One for women in Byng Place, W.C.

PUBLICATIONS. *Calendar* (Oct.), 3s. 6d.; *Annual Report; Union Societies' Magazine; Prospectus* of post-graduate courses and arrangements for research. Dept. of Applied Statistics: *Eugenics Lab. Memoirs* (i.-xxi.) and *Lecture Series* (i.-xiii., popular exposition of conclusions); *Treasury of Human Inheritance* (10 parts). *Biometrika* Journal (i.-xv.); Drapers' Company Research Memoirs, *Biometric Series* (i.-xii.), and *Studies in Natural Deterioration* (i.-xxi.); Drapers' Company *Technical Series* (i.-vii.); *Tracts for Computors* (i.-x.). Ephemeral papers published in *Questions of the Day and the Fray* (1.-xii.).

THE YEAR 1923–24

BENEFACTIONS. Carnegie U.K. Trust, £3000 for School of Librarianship spread over 5 years; Drapers' Company, £500 p.a. for Biometric Laboratory (renewed for 5 years); per Italian Ambassador, £300 per annum for Italian: Chadwick Trustees, £250 for Sanitary Science; for conversion of Lectureship in History of Art into part-time Professorship, £230; L.C.C., £500 for Scandinavian Studies; F. C. Stoop, £1000 for Dutch Studies at U.C. and Bedford College, to supplement existing fund; certain industrial firms, £1700 for Chemical Engineering; Lord Leverhulme, £50 for Prizes in Town Planning and Architecture; Miss Brodrick, £150 for Prize in Geography; M. J. M. Hill Testimonial Committee, £250 for Loan Fund; Madeleine Cole Trustees, £170 for Loan Fund; All Souls' College, Oxford, 670 volumes of Scandinavian Books from the library of the late Prof. W. P. Ker; the Misses Ker, a Bookcase from the same; Sir Hermann Gollancz, a Library of Jewish works; Miss Ward, a collection of Lantern Slides belonging to the late W. H. Ward; W. W. Rouse Ball, a silver gilt cup for the Fellows.

NEW BUILDINGS AND EQUIPMENT. Site for Ramsay Laboratory of Chemical Engineering in Gordon Street acquired on building lease, and existing buildings reconstructed and equipped at a total cost of about £6500.

NEW DEPARTMENTS OR POSTS. Lectureship in British Archæology; division of Department of Dutch Studies into two, Dutch History and Institutions and Dutch Language and Literature; establishment of Senior Lectureship in Maths. to Engineering Students; Readerships in Plant Ecology, Organic Chemistry, and in Physical Chemistry.

RELATIONS WITH OTHER INSTITUTIONS. A Conference and Exhibition of Town Planning held in the Bartlett School of Architecture in March 1924; accommodation for Conference of Educational Assocns. in January, for annual Conference of the Univs. of Great Britain and Ireland in May, and for Conference of the League of the Empire in July, provided. The Ronald Jones Travelling Studentship in Archit. was awarded to C. H. Short.

RESIGNATIONS. Prof. M. J. M. Hill (Maths.); Prof. Sir Hermann Gollancz (Hebrew); Dr. Irvine Masson (Reader, Inorganic Chem.), appointed Prof. of Chem. and Head of Science Depts., Durham; G. A. Sutherland (Physics), appointed Warden of Dalton Hall, Manchester; Dr M. Ginsberg (Lectr., Psychology), appointed Reader, Sociology. DEATHS: Emeritus Prof. Rev. T. G. Bonney; Emeritus Prof. J. Sully; Emeritus Prof. Sir John Tweedy; Miss K. A. Burke (Asst. Lectr. Chemistry).

OTHER IMPORTANT OCCURRENCES. Visit of H.M. the Queen to attend Public Inaugural Lecture on Scottish History by Dr. Walter Seton, on Feb 21, 1924; opening of Conference and Exhibition of Town Planning by H.R.H. Prince Arthur of Connaught on March 31, 1924.

NUMBER OF STUDENTS. Full-time undergraduates 1369, advanced 168, total 1537 (including women 688). Faculty of Arts, 1053, including General, 574 (w. 339); Fine Arts, 323 (w. 237); Archit., 59 (w. 15); Librarianship, 80 (w. 55); Journalism, 17 (w. 12); Science, 340 (w. 140); Medical Sciences, 217 (w. 50); Engineering, 120 (w. 2); Laws, 42 (w. 7); post-graduation and research, 513 (w. 132). Evening students in Arts, 392 (w. 221). Vacation, 158 (w. 92). Students whose home residence was in other countries, 362.

DEGREES OBTAINED. B.A., 154 * (w. 92); LL.B., 27; * M.B., B.S., 21; B.Sc., 142 * (w. 52); B.Sc. (Eng.), 24 (w. 1); higher degrees, 54 (w. 14).

* Includes results of 2 examns. owing to alteration in date of Final Examn.

UNIVERSITY OF LONDON, KING'S COLLEGE AND KING'S COLLEGE FOR WOMEN

CHAIRMAN OF THE DELEGACY—VISCOUNT HAMBLEDEN.

VICE-CHAIRMAN—A. J. ALLEN.

TREASURER—Sir EDWARD TROUP, K.C.B., K.C.V.O., LL.D.

PRINCIPAL—ERNEST BARKER, M.A., D.Litt. Ox., LL.D.

SECRETARY—S. T. SHOVELTON, M.A. Ox.

TUTOR TO WOMEN STUDENTS—ADA E. LEVETT, M.A. Ox.

LIBRARIAN—F. W. WALTON, M.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Anatomy, Descrip. and Surgical

Barclay-Smith, E., M.A., M.D., B.Ch. Camb.
Prof. (A. and Anthrop.).

Gladstone, R. J., M.D., C.M. Aberd., D.P.H., F.R.C.S.
Reader (Human Embryology) and Lectr. (A. and Anthrop.).

Compton, A, F.R.C.S.
Lectr. (Applied A.).

3 Demrs.

Anthropology, v. Anat.

Art

Dearmer, P., D.D. Ox. Lectr.

Assyriology

Gadd, C. J., M.A. Ox. Hon. Lectr.

Smith, S., M.A. Camb. Hon. Lectr.

Bacteriology and Public Health

[See note on p. 127.]

Simpson, Sir Wm. J. R., C.M.G., M.D., C.M. Aberd., F.R.C.P., D.P.H. Camb. Prof.

Sommerville, D., M.D. B.A., R.U.I., D.P.H. Camb.
Asst. Prof.

Taylor, F. E., M.A., M.Sc. Manc., D.P.H. Camb., M.D., B.S., F.R.C.S. Lectr. in B.

Charles, R., F.I.C.
Lectr. (Foods and Drugs Act).

Malcolm, A. J., M.R.C.S., L.R.C.P., D.P.H.
Lectr. (School Hygiene).

Partridge, W., F.I.C.
Lectr. (Chem.).

Bibliography, v. English

Biology, v. Zool.

Botany and Plant Biology

Gates, R. Ruggles, M.A. Mt. Allison, B.Sc. McG., Ph.D. Chic., F.L.S. Prof.

Schwartz, E. J., M.A., D.Sc.
Lectr.

Chapman, R. E., M.Sc. Leeds
Asst. Lectr.

1 Demr.

Chemistry

Smiles, S., O.B.E., D.Sc., F.R.S., F.I.C. Daniell Prof.

Allmand, A. J., D.Sc. Liv., F.I.C.
Prof.

Cremer, H. W., M.Sc., A.I.C.
Lectr.

Fairbourne, A., B.A. Ox., M.Sc. Manc., F.I.C. Lectr.

Salmon, C. S., M.Sc. Bris. Lectr.

Dolley, L. G. F., B.Sc., Ph.D.
Asst. Lectr.

Gray, L. T. M., B.Sc. Asst. Lectr.
3 Demrs.

Classics
Thomson, J. A. K., M.A. Prof.
The Principal Lectr.
Knight, Clara M., D.Lit. Reader.
Hall, E. B., M.A. Lectr.
Handford, S. A., B.A. Ox.
Asst. Lectr.
Bevan, E. R., O.B.E., M.A., D.Litt. Ox., LL.D. St. And.
Lectr. (Hellenistic Greek and History).

Czecho-Slovak, v. Slav.

Economics, v. Hist.

Education [Prof.
Wilson, J. Dover, M.A. Camb.
Showan, P. B., M.A. Liv. Lectr.
1 Asst.

Engineering, Civil
Jameson, A. H., M.Sc. Manc., M.I.C.E. Prof.
Lobban, C. H., B.Sc. (Eng.), A.M.I.C.E. Sr. Lectr.
White, C. M., B.Sc. Asst. Lectr.

Engineering, Electrical
Wilson, Ernest, M.I.C.E., M.I.E.E. Siemens Prof.
Robertson, F. Steele, M.I.E.E. Lectr.
Clarke, H. M., B.Sc., B.Sc. (Eng.) Lectr.

Engineering, Mechanical
Cook, Gilbert, D.Sc. Manc., A.M.I.C.E., M.I.Mech.E. Prof.
Genève, C. A., B.Sc. (Eng.), A.C.G.I., A.M.I.Mech.E., M.I.Struct.E. Sr. Lectr.
Campbell, H. G., B.Sc. (Eng.) Durh., A.M.I.Mech.E. Asst. Lectr.
..... Asst. Lectr.

English
Gollancz, Sir Israel, Litt.D. Camb., F.B.A. Prof.
Pollard, A. W., C.B., M.A. Ox. D.Litt. Durh. Prof. (E. *Bibliography*).
Reed, A. W., M.A., D.Lit. (Tutor for *Journalism* courses) Reader.
Day, Mabel, M.A., D.Lit. Lectr.
Ingram, E. Gwendolen, M.A. Lectr. (E. *Philology*).
Isaacs, J., B.A. Ox. Asst. Lectr. (E. Lit.).
Harrison, G. B., M.A. Camb. Asst. Lectr. (E. Lit.).
1 Asst.

French
Spiers, V., M.A. Ox., B. ès L. Paris Prof.
Shears, F. S., B.A., D. de l'U., Paris Reader (*Romance Philol.*).
Webb, C. D., M.A., D.Lit., B.Sc. Lectr.
Hughes, R. W., M.A. Ox., Dip. d'E.S., Paris Lectr.
Jones, R. A., B.A. Asst. Lectr.
2 Assts.

Geography
The Profs. of Botany, Geol., Civil Engin., Imperial Hist., Physics and Modern Greek (in conjunction with staff of London School of Economics).

Geology
Gordon, W, T., B.A. Camb., M.A. Edin., D.Sc., F.G.S. Prof.
Wells, A. K., M.Sc., F.G.S. Lectr.
Wooldridge, G. W., B.Sc. Demr.

German
Atkins, H. G., B.A. Camb., M.A., D.Lit. Prof.
Steppat, J., Ph.D. Vien., B.A. Reader.
Buchheim, Emma S. Lectr.
Haltenhoff, A. G. Lectr.
Rose, W., M.A. Lectr.
1 Asst.

Greek, Modern, and Byzantine Hist.
..... Koraes Prof.

Hebrew
Box, G. H., M.A. Ox., D.D. St. And. Lectr.

Histology, v. Physiol.

History, v. also Classics, Greek, Slav., Roum.
Hearnshaw, F. J. C., M.A Camb., LL.D. Dub. (also Lectr. in Law) Prof.
The Principal Lectr.
Newton, A. P., B.Sc., D.Lit. Rhodes Prof. of Imperial H.
Laistner, M. L. W., M.A. Camb. Reader in Ancient H.
Sykes, N., M.A., D.Phil. Ox., M.A. Leeds Lectr. (Mediæval H.).
Levett, Ada E., M.A. Ox. Lectr.
Chew, Helena M., M.A. Asst. Lectr.
Jenkins, C., M.A. Ox., D.D. Prof. (Eccl. H.).
Hall, Hubert, Hon. Litt.D. Camb. Reader in *Palæography* and *Economic H.*
Walters, W. C. F., M.A. Ox. Lectr. in *Palæog.*
Jenkinson, Hilary, M.A. Camb. Lectr. (Sources of English H.).

1 Asst.

Household and Social Science, v. *infra*

Hygiene, v. Bact.

Italian
del Re, Arundell, M.A. Lectr.

Journalism, v. English

Law, v. p. 164

Materia Medica and Pharmacology
Inchley, O., M.A., M.D. Camb. Lectr.

Mathematics
White, S. A. F., M.A. Ox. Prof.
Jolliffe, A. E., M.A. Ox. Prof.
Dale, J. B., M.A. Camb., B.A. Asst. Prof.
Shovelton, S. T., M.A. Ox. Lectr.

Asst. Lectrs. :
Henderson, J., M.A., B.Sc.
James, C. G., B.A. Camb., M.Sc.
Bath, F., B.Sc. Bris.

Microscopy
Barnard, J. E. Lectr.

Military Science [Lectr.
Phillips, Lt.-Col. G. P. A., O.B.E.

Palæography, v. Hist.

Pharmacology, v. Mat. Med.

Philology, v. English, French, Slavonic

Philosophy, v. also Psych.
Carr, H. Wildon, D.Litt. Durh. Prof.
Oakeley, Hilda D., M.A. McG. Reader.
Matthews, W. R., M.A., D.D. (also Lectr. in Theology) Prof. (P. of Religion).

Physics
Appleton, E. V., M.A. Camb., D.Sc. Wheatstone Prof.
Richardson, O. W., M.A. Camb., D.Sc., F.R.S. Yarrow Research Prof. (Royal Society's).
Curtis, W. E., D.Sc., A.R.C.S. Reader.
Flint, H. T., M.Sc. Birm., B.Sc., Ph.D. Lectr.
Worsnop, B. L., B.Sc. Lectr.
Williams, W. E., B.Sc. Asst. Lectr.
Fisher, Joseph W., B.Sc. Asst. Lectr.

2 Demrs.

Physiology
McDowall, R. J. S., M.B. Edin., D.Sc. Prof.
da Fano, C., L.D. Pavia, M.D. Reader (*Histology*).
de Souza, D. H., M.D., D.Sc., F.R.C.P. Lectr.
Hewitt, J A., B.Sc., Ph.D. St. And., A.I.C. Lectr.

1 Demr.

Polish, v. Slav.

Portuguese [Camoens Prof.
Prestage, E., B.A. Ox.
Bentley, W. A., M.A. Lectr.

Psychology
Aveling, F. A. P., D.D. Rome, Ph.D. Louv., D.Sc. Reader.
Hadfield, J. A., M.A. Ox., M.B., Ch.B. Edin. Lectr.
Bartlett, R. J., M.Sc. Lectr.
1 Demr.

Public Health, v. Bact.

Romance, v. French

Roumanian
Beza, M., L. ès L. Lectr.
Steed, H. Wickham
Lectr. in History of R. and near East.

Russian, v. Slav.

Serbian, v. Slav.

Slavonic Studies
Pares, Sir Bernard, K.B.E., M.A. Camb.
Prof. (Russian Hist.), Dir. of the Dept.
Jopson, N. B., B.A. Camb.
Reader (Comparative S. Philology).
Raffi, Arshak
Lectr. (Russian Lang.).
Mirsky, Prince D. S., of Petrograd and Kharkov Univs.
Lectr. (Russian Lit.).
Williams, H., Ph.D. Munich
Lectr. (Russian Ethnog.).
Meyendorff, Baron A. F., of Petrograd
Reader (Russian Institutions, etc.).
Wharton, L., M.A. Ox.
Lectr. (Polish Lang. and Lit.).
Seton-Watson, R. W., D.Litt. Ox., Ph.D. Prague and Zag.
Masaryk Prof. (Central European *History*).
Subotić, D., Ph.D. Munich
Lectr. (Serbian Lang. and Lit.).
Vočadlo, O., Ph.D. Prague
Lectr. (Czecho-Slovak Lang. and Lit.).

Spanish Studies
Pastor, A. R., B.Litt. Ox., D.Ph. Madrid Cervantes Reader.
Villasante, J. M., LL.D. Madrid Sr. Lectr.
Perry, Janet, M.A. Lectr.
Carey, J. R., B.A. Asst. Lectr.

Theology, v. Philos.

Zoology and Animal Biology
Dendy, A., D.Sc. Manc., F.R.S. Prof.
MacKinnon, Doris L., D.Sc. Aberd. Reader.
Tribe, Margaret, D.Sc. Lectr. & Demr.
1 Demr.

Household and Social Science Department

Biology
Prof. Dendy (v. *supra*, Zool.) Lectr.
Esdaile, Philippa C., D.Sc. Manc. Reader.
Triffitt, Marjorie J., M.Sc. Asst. Lectr.

Chemistry [Prof.
Tinkler, C. Kenneth, D.Sc. Birm., B.Sc. Lond. and Wales, F.I.C.
Masters, Helen, B.Sc. Asst. Lectr.
Jackman, Mrs., B.Sc. Asst. Lectr.

Economics and Business Affairs.
Burns, A. R., B.Sc. (Econ.) Lectr.

Household Work
Lindsay, Jessie Lectr.
Tress, Helen Asst. Lectr.

Institutional Administration
Shirras, Miss F. E. F. Lectr.

Hygiene and Bacteriology
Dukes, Cuthbert, O.B.E., M.D. Edin., M.Sc., D.P.H. Lectr.

Henry, Lydia M., M.D. Lectr. in H. *Physiology* [Prof.
Mottram, V. H., M.A. Camb.
Hartwell, Gladys, D.Sc. Lectr.
Clifford, Winifred M., M.Sc. Asst. Lectr. *Physics* ,
Dillon, Miss T. J., B.Sc. Lectr. 1 Demr.

GENERAL INFORMATION

Address—Strand, W.C.2. Telephone—207 Gerrard.

Founded by Royal Charter in 1829 for " instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839; the Evening Classes were started in 1856, and a Women's Dept. in 1881. In 1910 the College School became a separate Corporation, the Hospl. and Advanced Med. School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol. Dept., which became a School of the Univ. In 1915 the Arts and Science Departments of King's College for Women, previously housed in South Kensington, were transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill.

LIBRARY, 65,000 vols., including the Marsden (Philol. and Oriental), Skeat and Furnivall (English), Wheatstone (Electricity, etc.), Slavonic, and Byzantine and Modern Greek collections.

LABORATORIES AND MUSEUMS. Anat. (Hughes Collection), Comp. Anat., Bact., Biol., Bot., Chem., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Phys. (George III. Museum), Physiol., Psych., Pub. Health, Zool.

FACULTIES. Arts, Laws, Natural Science, Medical Science, Engineering, Theology. Deans: Prof. Atkins (German), H. J. H. Mackay, Prof. Smiles (Chem.), Prof. Barclay-Smith (Anat.), Prof. Jameson, Rev. W. R. Matthews.

Evening Class Department (classes in connexion with faculties of Theology, Arts, Laws, and Science) and Dept. of Bacteriology and Public Health. Dean, Prof. Sir Israel Gollancz (English).

DEGREE COURSES in Arts, Science, Laws, Engineering. Prelim. and Interm. courses in Medicine and Pub. Health, and courses for the First and Second Examns. for Dental Degrees. Day Training College (men only) under the Board of Education. Dept. for training secondary Teachers (men and women).

Engineering students receive preliminary work-shop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4-years' course spend part of each year (18 months in all) in practical training.

College Diploma course in Engineering, ordinarily 3 yrs. The *Associateship*, open to men and women graduates who have attended a prescribed course in Divinity. *Certificates* in Palæography, Italian, Hebrew, Spanish, Portuguese, Russian, Czecho-Slovak, Serbo-Croat, and Polish.

THE HOUSEHOLD AND SOCIAL SCIENCE DEPARTMENT (Warden—Miss Lydia Henry, M.D.) at Campden Hill Road, W.8, continues to be a Department of King's College for Women, though in the main practically separate. It pro-

vides full degree courses for the B.Sc. in H. and S. Sc. Tuition Fees, 45 gs. per session. Residence from 75 to 93 gs. Number of students in 1924, 130

ADVANCED STUDY. Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, Naval, Eastern Europe, and Ancient), Slavonic, Spanish, Portuguese, Modern Greek, Bacteriology and Pub. Health, and several other Depts. of Science.

FEES. Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs. (Psychology Honours course, 34 gs.); Science, 35 to 50 gs.; Med., 35 to 40 gs.; Laws, 18 to 24 gs.; Engin., 48 to 60 gs.

SCHOLARSHIPS FOR GRADUATES. In Arts 2, aggregate value £115 p.a.; Science 3, ag. value £290 p.a.

RESIDENCE. Two hostels for men (one Theol. for 65 men and one general for 80 men), and one for (60) women; also Q. Mary's Hostel and Annexe in the Household and Social Sc. Dept. buildings at Campden Hill with accommodation for 130.

A REGISTER OF FORMER STUDENTS is maintained in which changes of address are recorded without charge.

PUBLICATIONS. *Calendar*, 4s. 6d. post free; K.C. *Review*; K.C. *Magazine* (Students—Household and Social Science Dept.).

THE YEAR 1923–24

BENEFACTIONS. Clothworkers' Company, £250 for Engineering equipment; Sir Charles Wakefield, £350 p.a. for 3 yrs. for Slavonic studies; Roumanian Government, £350 p.a. for 3 yrs. for lecturership in History of R. and the Near East, and £200 p.a. for part-time lecturership in Roumanian; donations towards College Hall building fund, £886.

NEW BUILDINGS, ETC. Additional accommodation provided for research work.

NEW DEPARTMENT. Dental Metallurgy.

RELATIONS WITH OTHER INSTITUTIONS. During the session Prof. Newton, Prof. Pares, and the Dean of King's College all visited U.S.A. and lectured; the Dean preached a course of sermons in New York. During the vacation the Principal visited Canada to preside at the meeting of the Education Section of the British Association at Toronto. Among visitors who lectured at King's College were: Prof. Gaetano Salvemini of Florence (Foreign Policy of Italy from 1871 to 1914), Senor Rangel de Castro, Sec.-Genl. of Brazilian Delegation to League of Nations (The Civilization of Brazil), Prof. Hans Driesch of Leipzig (The Possibility of Metaphysics), Prof. Roman Dyboski (Modern Poland), and Senor Don Jose Castellejo (Education in Spain).

RESIGNATIONS. Prof. J. W. Adamson (Educn.); Prof. O. W. Richardson (Physics), appointed Yarrow Research Prof.; Prof. A. J. Toynbee (Mod. Greek); Prof. G. B. Jeffery (Maths.), appointed Astor Prof. in Univ. Coll.; R. W. K. Edwards (Maths.); R. E. Shawcross (Elec. Engin.); J. R. A. Nicoll (English), appointed Prof. in East London Coll.; F. W. Baxter (English), appointed Assoc. Prof. in McGill; E. F. Jacob (Hist.), appointed Tutor at Christ Church, Oxford; J. M. D. Gauntlett (Chem.), appointed Science Master in St. Edward's School, Oxford; A. N. Campbell (Chem.); F. P. Cheetham (Palæog.), appointed Warden of Egerton Hall, Manchester; Miss C. Sherriff (Maths.); S. H. Spark (Maths.). DEATH: J. F. Tinto (Maths.).

STUDENTS. Full-time undergraduates in the Faculty of Arts, 408 (including women—213); Science, 214 (women—62); Med., 265 (w.—89); Engin., 134. Evening students taking course for degree in Arts, 105 (w.—41); Science, 64 (w.—13); Laws, 40. Graduate students, full-time, 91 (w.—22); part-time, 91 (w.—20). Other part-time students, 3591 (w.—1130), including Banking, 1785, Teachers' classes, 624 (w.—468), Intercollegiate, 361. Degrees obtained: B.A., 84 (w.—58); M.A., 1; LL.B., 7; B.Sc., 50 (w.—7); B.Sc.Eng., 36; D.Lit., 1; Ph.D., 6; M.Sc., 5; D.Sc., 6.

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Bacteriology and Public Health. Owing to the establishment of the new School of Hygiene and Tropical Medicine (p. 161) this department will be closed in July 1925.

SCHOOLS OF THE UNIVERSITY

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—Rt. Hon. LORD BUCKMASTER.

RECTOR—Sir THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.Sc., LL.D., F.R.S.

SECRETARY—A. GOW, M.A., B.Sc.

REGISTRAR—JOHN JONES.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Aeronautics

Bairstow, L., C.B.E., A.R.C.S., F.R.S. Prof. (Aviation).
Walker, Sir Gilbert T., C.S.I., M.A., Sc.D., F.R.S. Prof. (*Meteorology*).
Hill, F. T., M.I.Ae.E. Asst. Prof. (Design).
Lectrs.:
Richmond, V. C., O.B.E., B.Sc., A.R.C.S. (Airships).
Wimperis, H. E., O.B.E., M.A. Camb., M.I.E.E. (Navign.).
Farren, W. S., M.B.E., M.A. Camb. (Strength of Structs.).
Moss, H., D.Sc., A.R.C.S., D.I.C. (Engine Design).
Stern, W. J., B.Sc., A.R.C.S., D.I.C. (Engine Design).
..... Spl. Lectr. (*Meteorology*).

Astrophysics [Prof.

Fowler, A., A.R.C.S., F.R.S. (Yarrow Research Prof.)

Bio-Chemistry [Prof.

Schryver, S. B., Ph.D. Leip., D.Sc.

Biology, v. also Bot., Zool.

Tabor, R. J., B.Sc., F.L.S. Asst. Prof.
Paine, S. G., D.Sc., F.I.C. Asst. Prof.
Cannon, H. G., M.A. Camb. Lectr.
..... Lectr.
6 Demrs.

Botany

Farmer, J. B., M.A., D.Sc. Ox., LL.D. Edin., F.R.S. Prof.
Blackman, V. H., M.A., Sc.D. Camb., F.R.S. Prof. (Plant Physiol. and Path.).
Groom, P., M.B.E., M.A. Ox. and Camb., D.Sc. Ox., B.Sc. Birm. Prof. (Tech. of *Woods & Fibres*).
Brown, W., D.Sc. Asst. Prof. (Plant Path.).
4 Research Plant Physiologists.

Chemical Technology

Bone, W. A., D.Sc. Manc., Ph.D. Heid., F.R.S. Prof.
Hinchley, J. W., A.R.S.M., F.I.C., M.I.Chem.E. Asst. Prof. (*C. Eng.*).
Finch, G. I., M.B.E., Dip. I.C. Zürich Lectr.
Brinsley, F., M.Sc. Tech. Manc. Lectr. (*Fuel*).
Hancock, W. C., B.A. Camb., F.I.C. Lectr. (*Refr. Mat. & Silicates*).

Ure, S. G. M., M.A., B.Sc. Glas., M.I.Chem.E. Lectr.
1 Demr.

Chemistry
Baker, H. Brereton, C.B.E., M.A., D.Sc. Ox., F.R.S. Prof.
Thorpe, J. F., C.B.E., D.Sc. Manc., Ph.D. Heid., F.R.S. Prof. (Organic C.).
Philip, J. C., O.B.E., M.A., D.Sc. Aberd., Ph.D. Gött., F.R.S. Prof. (Physical C.).
Whiteley, Martha A., O.B.E., D.Sc., A.R.C.S. Asst. Prof.
Harwood, H. F., M.Sc. Manc., Ph.D. Heid. Lectr.
Eldridge, A. A., B.Sc., F.I.C. Lectr.
Sugden, J. N., B.Sc. Lectr.
Ellingham, H. T., B.Sc. Lectr.
Bull, P. C., D.S.O., A.R.C.S. Lectr.
8 Demrs., 1 Asst.

Engineering, Chemical, v. Chem. Tech.

Engineering, Civil, and Surveying
Dixon, S. M., M.A., M.Sc., B.A.I. Dub., C* Prof.
Purser, J., B.A., B.A.I. Dub., M.Sc. Birm., c* Asst. Prof.
Lectrs.:
Rice-Oxley, K., A.C.G.I., c*
Wickenden, A. F., c*, A.R.I.B.A.
3 Demrs., 2 Assts.

Engineering, Electrical
Fortescue, C. L., O.B.E., M.A. Camb., E* Prof.
Mallett, E., M.Sc. (Eng.), c*, e* Asst. Prof.
Rushton, A., M.Sc. (Tech.) Manc., e* Lectr.
Sims, J. W., e*, m* Lectr.
Hopkin, D. W., e* Lectr.
Sutton, G. W., B.Sc. Lectr.
6 Demrs., 2 Assts.

Engineering, Mechanical, and Motive Power
Dalby, W. E., M.A. Camb., B.Sc., C*, M*, F.R.S. Prof.
Hewson, W., B.Sc., A.R.C.S., c* Asst. Prof.
Witchell, E. F. D., B.Sc., A.C.G.I., M* Asst. Prof.
Cruickshank, A., M* Asst. Prof.
Howard, J. V., D.Sc., m* Lectr.
Smith, S. L., D.Sc., A.C.G.I., m* Lectr.
Lewitt, E. H., B.Sc. (Eng.) Lectr.
Cawley, G. M., m* Lectr.
Dyson, F., B.Sc., A C.G.I. Lectr.
Collins, W., B.Sc., A.C.G.I. Lectr.
Demrs. 6, Assts. 14.

Forestry, v. Botany

Fuel, v. Chemical Technology

Geology, Mining Geol., and Oil Tech.
Watts, W. W., M.A., Sc.D. Camb., M.Sc. Birm., LL.D. St. And., F.R.S. Prof.
Cullis, C. G., D.Sc., M.I.M.M. Prof. (Econ. Mineralogy).
Davies, A. M., D.Sc., A.R.C.S. Asst. Prof. (Palæont.).
Illing, V. C., M.A. Camb. Asst. Prof. (Oil Tech.).
Evans, J. W., C.B.E., D.Sc., LL.B., F.R.S. Lectr. (Petrology).
Brammall, A., M.Sc., Ph.D., D.I.C. Lectr.
Wolf, A. Lectr.
Milner, H. B., M.A. Camb., D.I.C. Lectr.
5 Demrs.

Mathematics and Mechanics
Chapman, S., M.A. Camb., D.Sc. Vict., F.R.S. Chief Prof.

C*, E*, M*=M.I.C.E , M.I.E.E., M.I.Mech.E.; c*, e*, m*=A.M.I.C.E., etc.

Levy, H., D.Sc. Ox., M.A., B.Sc. Edin. Prof.
Klugh, H., D.S.C., B.A. Camb. Asst. Prof.
Odell, W. L., A.R.C.S. Asst. Prof.
Sillick, W. E. G., A.R.C.S., D.I.C. Asst. Prof.
Lectrs.:
Hodgson, T., B.A. Ox., B.Sc.
Milner, L. G., A.R.C.S.
Dickson, T. W., B.A. Ox.
Harvey, J., B.Sc., A.R.C.S.
Kebby, C. H., B.Sc., A.R.C.S.
Reeve, W., A.M.I.C.E., A.M.I.Mech.E.
Demrs., 2 Assts.

Metallurgy
Carpenter, H. C. H., M.A. Ox., Ph.D. Leip., A.R.S.M., M.I.M.M., F.R.S. Prof.
Merrett, W. H., A.R.S.M., M.I.M.M., F.I.C. Asst. Prof.
Courtman, E. O., A.R.S.M. Asst. Prof.
Drinkwater, B. W., B.Sc., A.R.S.M., A.R.C.S., F.I.C. Lectr.
Chapple, H. M., A.R.S.M. Lectr.
3 Demrs.

Meteorology, v. Aero.

Mineralogy, v. Geol.

Mining, v. also Geol. [Prof.
Truscott, S. J., A.R.S.M., M.I.M.M.
Cooke, L. H., A.R.S.M., M.I.M.M. Prof. (Mine Surveying).
Holman, B. W., O.B.E., A.R.S.M., A.I.M.M. Asst. Prof.
Dolan, A. A., M.I.M.M. Lectr.
Habberjam, C., A.I.M.M. Lectr.
Webb, A. H., M.I.M.M. Lectr.

Martin, Prof. C. J., M.B., D.Sc., F.R.S. Lectr. (Tropical Hygiene).

Oil, v. Geol.

Optical Engineering and Applied Optics [Prof.
Cheshire, F. J., C.B.E., A.R.C.S.
Conrady, A. E., A.R.C.S. Prof. (O. Design).
Pollard, A. F. C., A.R.C.S., F.I.P., A.M.I.E.E. Prof. (O.E. (Mech.) and Instrument Design).
Martin, L. C., D.Sc., A.R.C.S., D.I.C. Lectr.
1 Demr.

Petrology, v. Geol.

Physics, v. also Astrophysics
Callendar, H. L., C.B.E., M.A. Camb., LL.D. McG., F.R.S. Prof.
Rankine, A. O., O.B.E., D.Sc. Prof.
Forsyth, R. W., A.R.C.S. Asst. Prof.
Dingle, H., B.Sc., A.R.C.S. Asst. Prof.
Lectrs.:
Brinkworth, H., M.Sc., A.R.C.S.
Bell, Mary, B.Sc., A.R.C.S.
Gregory, H. S., B.Sc., A.R.C.S.
10 Demrs.

Refractory Materials and Silicates, v. Chemical Tech.

Woods and Fibres, v. Botany

Zoology, v. also Biol. [Prof.
MacBride, E. W., M.A. Camb., LL.D. McG., D.Sc., F.R.S.
Lefroy, H. Maxwell, M.A. Camb. Prof. (Entomology).

GENERAL INFORMATION

Address—Imperial Institute Rd., S. Kensington, S.W.7.
Telegrams—Scientist, Southkens, London. Telephone—6444 Kensington.

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most

advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges :

The Royal College of Science.
The Royal School of Mines.
The City and Guilds (Engineering) College.

The departments and (in brackets) sub-departments are : Aeronautics (Aerodynamics, Meteorology), Botany (Bio-Chemistry, Plant Physiology and Pathology, Technology of Woods and Fibres), Chemical Technology (Chemical Engineering, Fuel and Refractory Materials, Electro-Chemistry), Chemistry (Organic, Physical), Engineering—Civil and Surveying, Electrical, Mechanical, and Motive Power, Geology (Economic Mineralogy, Mining Geology, Technology of Oil), Mathematics and Mechanics, Metallurgy, Mining (Mining Geology, Mining Surveying), Optical Engineering and Applied Optics (Optical Design, Instrument Design), Physics (Astro-physics), Zoology (Entomology).

The total staff exceeds 200. For the purpose of internal degrees of the Univ. the College is a School of the University in Science and Engineering. The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of University standard whose occupations in life will be concerned with the scientific aspects of industries.

LIBRARIES, ETC. The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, RESEARCH LABORATORIES, and full facilities for advanced study.

ADMISSION. The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed ; the prescribed qualifications give no right to admission, but will be considered with others of which the candidate may give evidence. (i.) *R.C.S.* and *R.S.M.* A candidate for admission must be as a rule not less than 17 yrs. of age. For admission to 1st yr. Assoc. courses an Entrance examn. in Maths. and Mechanics, Chem. Physics, Engl., French or German or Spanish or Italian, and Geometrical or Freehand Drawing must be passed, unless equivalent examns. have been passed elsewhere. (The Matricn. examn. of the Univ. is considered equivalent provided the student has passed in " More Advanced Maths." and " Elem. Mechanics," and in the other subjects prescribed for the Entrance examn.) Candidates for admission to a 2nd yr. must pass the College Entrance examn. in more advanced Maths., Mechanics, Chem., and Physics, unless equivalent examns. have been passed elsewhere. For admission to a 3rd yr. candidates must have reached a standard correspondingly higher. (ii.) *City and Guilds.* A candidate desiring to enter for the 1st yr. of the Assoc'ship course must be at least 16 yrs. of age and must pass a special examn. in Maths. and Mechanics, Geom. and Machine Drawing, Phys., Chem., Engl., and French or German or Italian or Spanish, unless he has passed the Matricn. examn. of the Univ., taking certain specified subjects, including More Advanced Maths. For admission to the 2nd yr. course candidates must take the more advanced papers and the practical tests in the College examn., or they must have passed the Interm. B.Sc. (Eng.) in the Univ. in Maths., Pure and Applied, Heat, Electricity and Magnetism, Engineering, Drawing and Design, and Chemistry. Candidates for admission to advanced or research wo k in the *R.C.S.*, *R.S.M.*, or *C. and G.* are admitted on satisfying the Coll. authorities as to their previous training.

DIPLOMA AND OTHER COURSES. Associateship of each of the 3 associated Colls., 3 or 4 yrs.; specially arranged courses in Advanced Science or Technology, 1 or more yrs., leading to the Diploma of the Imperial Coll.; short courses dealing with special subjects for graduates or persons engaged in scientific industrial pursuits; occasional courses to suit individual needs.

FEES. Entrance, £2; Tuition, per session, for full-time Associateship or Post-Associateship courses of study, £62: 10s. (including Union fees); for less than full-time courses, *pro rata*; for Research Work the fee is £22: 10s. per session (including Union fees), but an additional charge may be made for expensive apparatus or chemicals.

SCHOLARSHIPS for post-grad. work: Beit Fellowship for Research, v. Appendix XXIV. (iv.); £300 Plimmer Fellowship in Pathology; £100 in Botany; and many others (v. *Calendar*).

AFFILIATION, ETC. The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

PUBLICATIONS. *Calendar*; *Dominion Science Scholarships* (summary of information regarding post-graduation courses, 33 pp.); *Annual Report*, with list of members pubd. by members of the Coll.

THE YEAR 1923–24

BENEFACTIONS, ETC. Ten Dominions Science Scholarships of £300 each in the first instance for one year, two each for graduates from Universities in India, Canada, Australia, New Zealand, and South Africa, established by donations of £1000 by Sir Arthur Acland, Bart., and £2000 by Sir Otto Beit, Bart., K.C.M.G.

DIPLOMAS GRANTED. A.R.C.S., 87; A.R.S.M., 36; A.C.G.I., 99; D.I.C., 86. Total, 308, including 15 women.

STUDENTS. Preparing for the College Diplomas, 735, including 13 women (Chem., 147; Engin., 377: Mining, 73; Metall., 31; Biol., 39; Physics, 30; Mining Geol., 6; Oil Tech., 38; Optical Engin., 31); post-diploma and research, 265, including 28 women (Biol., 72; Chem., 50; Chem. Tech., 19; Aeronautics, 20); occasional, 47. Also 44 research workers. Full-time students from abroad, 123; India, 33; S. Africa, 6; other parts of the Empire 31; Russia, 15; China, 5; Roumania, 3; other foreign countries, 30.

EAST LONDON COLLEGE

CHAIRMAN OF THE COLLEGE COUNCIL—E. DE QUINCEY QUINCEY.
PRINCIPAL—J. L. S. HATTON, M.A.
REGISTRAR—E. J. WIGNALL.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Aeronautical Engineering
Piercy, N. A. V., D.Sc. (Eng.) Lectr.

Botany [Prof.
Fritch, F. E., Ph.D. Mün., D.Sc.
Haines, F. M., B.Sc. Lectr.
Carter, Nellie, D.Sc. Birm. Lectr.

Chemistry
Partington, J. R., M.B.E., D.Sc. Manc. Prof.
Turner, E. E., M.A. Camb., D.Sc. Lectr.
Jones, D. C., M.Sc. Wales, Ph.D. Johns Hopkins Lectr.
Patterson, W. H., M.Sc. Manc. Lectr.
Bury, F. W., M.Sc. Manc. Lectr.
Roberts, E., M.Sc., Ph.D. Wales Lectr.

Classics
Earp, F. R., M.A. Camb. *
Mozley, J. H., M.A. Camb. Lectr.

Engineering, Civil and Mechanical, v. also Aero.
Lamb, E. H., D.S.C., M.Sc. Manc., A.M.I.C.E. Prof.
Higgins, A. L., M.Sc. Belf., A.M.I.C.E. Lectr. (Civil E.).
Wells, G. J., A.M.I.C.E., M.I.M.E. Lectr. (Mech. E.).
Wedgwood, G. A., M.Sc. Belf. Lectr.
1 Demr., 2 Assts.

Engineering, Electrical [Prof.
MacGregor-Morris, J. T., M.I.E.E
John, W. J., D.I.C., A.M.I.E.E. Lectr.
Bradfield, R., B.A. Camb., A.M.I.C.E. Lectr.

English Lang. and Lit.
Nicoll, J. R. Allardyce, M.A. Glas. Prof.
Williams, O. T., M.A. Wales Lectr.
Davis, B. E. C., B.A. Ox., M.A. Lectr.

French Lang. and Lit.
Déchamps, J., D.Phil., D. ès L. Liége *
Halket, Eliz. C., M.A. Lectr.

Geography and Geology
Smith, H. G., B.Sc., A.R.C.S. Reader.
Tunstall, Bessie M., B.A. Lectr.

German Lang. and Lit.
Dunstan, A. C., Ph.D. König., B.A. Lectr.

History, Modern
Clarke, F., M.A. Ox. *
Penson, Lillian M., M.A., Ph.D. Lectr.

Mathematics, Pure and Applied
The Principal *
Le Beau, G. S., M.A. Ox. Depy. Hd. of Dept.

* Head of Department.

Churchill, W. F. S., M.A. Ox.
Asst Prof. (Applied M.).
Cooper, F. T., B.Sc. Lectr.
Soal, S. G., M.A. Lectr.
Green, S. L., M.Sc. Lectr.

Physics [Prof.
Lees, C. H., D.Sc. Manc., F.R.S.
Ferguson, A., M.A. Wales, D.Sc. Lectr.
Calthrop, J. E., B.A. Camb., M.Sc. Lectr.
Gauss, C. H. J., B.Sc. Lectr.
Andrews, J. P., B.Sc. Lectr.

Spanish
Barragán, J. V. Lectr.

Zoology
Mudge, G. P., A.R.C.S. Head of Dept.
Cunningham, J. T., M.A. Ox. Lectr.

GENERAL INFORMATION

Address—Mile End Rd., E.1. Telephone—3384 East.

Established 1892. Governed by a Council which includes the Master and Clerk of the Drapers' Co., and representatives of the L.C.C., the Univ, and the Staff. A School of the Univ. in Arts, Science, and Engin. Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim. Med. Examn. Special Research Laboratories in Physics, Chem., Elec. Engin. Degree courses in Arts, Science, Engin. (including Aeronautical Engin.), and Med. Engineering students who have had practice in works may dispense with the College workshop course (4 hours a week in first year). Fee per session, £22 : 2s. Hostel for women at Whipps Cross; residence and board from 30s. a week. *Calendar*, 1s. post free. *College Magazine*, Old Students' Association.

The Year 1923–24. Students : internal (Univ. of London), 613, including 170 women ; others, chiefly evening, 38 (14 women). Degrees obtained : B.A., 35 ; B.Sc., 82 ; B.Sc. (Engin.), 26.

BIRKBECK COLLEGE

PRESIDENT OF THE COLLEGE—Rt. Hon. VISCOUNT HALDANE OF CLOAN, K.T., O.M., F.R.S.

CHAIRMAN OF THE GOVERNORS—Sir E. COOPER PERRY, M.A., M.D., F.R.C.P.

PRINCIPAL—G. SENTER, D.Sc., Ph.D., F.I.C.

SECRETARY—G. F. TROUP HORNE, B.A.

LIBRARIAN—M. C. HILDYARD, B.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Botany

Gwynne-Vaughan, Dame Helen, D.B.E., LL.D. Glas., D.Sc., F.L.S. Prof.

Ramsbottom, J., O.B.E., M.A. Camb., F.L.S. Lectr.

Barnes, B. F., B.Sc. Lectr.

Chemistry

The Principal, Ph.D. Leip., D.Sc., F.I.C.

Barrow, F., M.Sc. Birm., Ph.D. Stras. Assoc.

Sugden, S., D.Sc., A.R.C.S., A.I.C. Lectr.

Myddleton, W. W., D.Sc. Belf. Lectr.

Thorneycroft, F. J., B.Sc. Birm. Lectr.

1 Demr.

Classics and Ancient History

Wright, F. A., M.A. Camb.

Marshall, F. H., M.A. Camb. Reader.

Economics

Guillebaud, C. W., M.A. Camb. Lectr.

English Lang. and Lit.

Lobban, J. H., M.A. Aberd.

Daunt, B. Marjorie Lectr. (E. Lang.).

Mackenzie, Agnes M., M.A., D Litt. Aberd. Lectr.

French Lang. and Lit.

Stone, Louise W., M.A. * (Acting). Lectr. (Romance Philol.).

Gould, Marjorie, B.A. Lectr.

Geography [Prof.

Unstead, J. F., M.A. Camb., D.Sc.

Savory, Gundred H., B.A. Lectr.

Taylor, Eva G. R., B.Sc. Lectr.

Geology

Davies, G. MacD., M.Sc., F.G.S.

Spath, L. F., D.Sc., F.G.S. Lectr. (G. and Geog.).

German

Bithell, J., M.A. Manc. Reader

History [Reader

Jones, Arthur, M.A. Manc.

Penson, Lillian M., B.A., Ph.D. Lectr.

Italian

Crespi, A., D.Lett. Padua Lectr.

Law

Welford, A. W. Baker, M.A. Camb. (Jurispr., Com. L., Merc. L., Conflict of Laws).

[1] Head of Dept.

O'Malley, B. L. A., B.A. Camb.
Lectr. (Roman L., Hist. of English L.).
Richardson, J. B., M.A., LL.B. Camb.
Lectr. (Equity, Real Property, etc.).
Goitein, H., LL.B.
Lectr. (Const. and Crim. L.).

Mathematics, Pure and Applied
Smart, E. H., M.A. Camb. *.
Coates, C. V., M.A. Camb. Lectr.
Fox, C., M.A. Camb. Lectr.
Ball, A. E., B.A. Camb. Lectr.

Philosophy, Psychology, and Logic
Burns, C. Delisle, M.A. Camb., D.Lit. Lectr.

Physics [Prof.
Griffiths, A., D.Sc. Manc., A.R.C.S.
Simons, L., D.Sc., F.Inst.P. Reader.
Clack, B. W., M.Sc., Ph.D., F.Inst.P. Lectr.
Nettleton, H. R., D.Sc. Lectr.

Zoology [Reader *.
Jackson, H. G., M.Sc. Liv., F.Z.S.
Spaul, E. A., B.Sc., Ph.D., F.Z.S. Lectr.

* Head of Dept.

GENERAL INFORMATION

Address—Breams Buildings, E.C.4. Telephone—2245 Holborn.

Founded 1823 by Dr. George Birkbeck " for the purpose of giving education to students in the principles of the arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students for 5 yrs. from Oct. 1920. *Library*: 14,000 vols., including special Science Department. Complete *courses* for degrees in Arts and Science and also in Laws, and for the Academic Diploma in Geog. and for the Inst. of Chem. examns., and matricn. courses. *Fees*, including subs. to Students' Union: Arts and Laws, £7 : 10s.; Science, £9. Postgrad. work (Registration Fee), £2. *Publications*: *Calendar*, 1s.; *Annual Report*; *Lodestone* (Students, terminally). YEAR 1923–24: *Students*: internal, 616, others, 365; men, 599; women, 382. Degrees obtained: B.A. (two yrs.), 48 (women, 21); B.Sc. (two yrs.), 59 (women, 6); higher, 7 (women, 1); LL.B., 1.

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

CHAIRMAN OF COURT OF GOVERNORS—Rt. Hon. Sir ARTHUR STEEL-MAITLAND, Bart., M.P.

VICE-CHAIRMAN—Hon. Sir JOHN COCKBURN, K.C.M.G., M.D.

DIRECTOR—Sir WM. H. BEVERIDGE, K.C.B., M.A., B.C.L. (Ox.), LL.D.

SECRETARY—Mrs. MAIR, M.A. LIBRARIAN—B. M. HEADICAR.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Accountancy and Business Methods, v. also Com.

Dicksee, L. R., M.Com. Birm., F.C.A. Cassel Prof.

de Paula, F. R. M., O.B.E., F.C.A. Reader.

Roland, S. W., F.C.A. (S).

Polwarth, J. B., A.S.A.A. (S).

Anthropology, Social, v. also Ethnology

Malinowski, B., Ph.D. Cracow, D.Sc. Reader.

Banking and Currency, v. also Commerce

Gregory, T. E., D.Sc. (Econ.) Cassel Reader.

1 Asst.

Commerce and Industry, v. also Law, Logic, Transport

Sargent, A. J., M.A. Ox. (also Lectr. in Geog.) Prof.

Dalton, Hugh, M.P., M.A. Camb., D.Sc. (Econ.) (Tutor for *Journalism* courses) Cassel Reader.

Gregory, T. E., D.Sc. (Econ.) ,,

Forrester, R. B., M.A. Edin., M.Com. Manc. Lectr.

Jones, L. Rodwell, B.Sc. (Commercial Geog.) Lectr.

Rowe, J. W. F., B.A. Camb., M.Sc. (Econ.) Lectr.

Shanahan, E. W., D.Sc. (Ec.) (S).

Economics, v. also Indian E. and Russia

The Director (Descriptive E. and Public Admn.).

Cannan, E., M.A. Ox., LL.D. Glas. Prof. (Pol. Economy).

2 Assts.

English

Reed, A. W., M.A., D.Lit. Reader (and at King's Coll.).

1 Asst.

Ethnology, v. also Anthropology

Seligman, C. G., M.D., F.R.C.P., F.R.S. Prof.

Joyce, T. A., O.B.E., M.A. (S).

Finance, v. Politics

French, v. Modern Languages

French History and Institutions

Vaucher, P., L. ès L. Paris Prof.

Geography, v. also Commerce

Mackinder, Sir Halford J., M.A. Ox. Prof.

Ormsby, Hilda, B.Sc. (Econ.) Lectr.

Jones, L. Rodwell, B.Sc. (also Commerce) Lectr.

Robinson, L. G., M.A. Ox. Lectr.

1 Asst.

(S) = Special Lectr., not on the School Staff.

German, v. Modern Languages

History, Economic, v. also Politics

Knowles, Lilian, Litt.D. Dub., M.A., LL.M. Camb. Prof.

Hall, Hubert, Litt.D. Camb. Reader (Palæog. and E. H.).

Tawney, R. H., B.A. Ox. Reader.

Power, Eileen E., M.A., D.Litt. Reader.

2 Assts.

Indian Economics

Slater, Gilbert, M.A. Camb., D.Sc. (Econ.) (S).

International Relations

Baker, P. J. Noel, M.A. Camb. Cassel Prof.

Journalism, v. Commerce

Law, v. p. 164

Keen, F. N., LL.B., Barr.-at-Law (S) (Law of Public Services).

Allemès, F., B. ès L., L. ès L. Avocat, (S) (Code Civil).

Ball, W. V., O.B.E., M.A. Camb., Barr.-at-Law (S) (Railway L.).

Gattie, V. R. M., C.B.E., M.A. Ox., Barr.-at-Law (S) (Criminal L.).

Hurst, G. H., M.A., LL.M., Barr.-at-Law (S) (Conveyancing).

Robson, W. A., B.Sc. (Econ.), Barr.-at-Law (S) (Industrial L.).

Parry, D. Hughes, B.A., LL.B. Camb. and Wales, Barr.-at-Law Lectr.

Logic, Psychology, and Philosophy

Wolf, A., M.A. Camb., D.Lit. Prof. (Logic & Scientific Method).

Lectrs. on Industrial Psychology :

Burt, Cyril, D.Sc. (S).

Farmer, Eric, M.A. (S).

Miles, G. H., D.Sc. (S).

Myers, C. S., C.B.E., M.A., M.D., Sc.D. Camb., F.R.S. (S).

Smith, May, M.A. (S).

Modern Languages *

Earle, Edith Lectr. (French).

Haltenhoff, A. G. Lectr. (German).

Politics and Public Administration

Webb, Right Hon. Sidney, M.P., LL.B. Prof. (Pub. Admn. and History).

Laski, H. J., M.A. Ox. Reader.

Lees-Smith, H. B., M P., M.A. Ox. Reader (Pub. Admn.).

Wallas, Graham, M.A. Ox., Litt.D. Manc., Emeritus Prof., Univ. London Lectr. (Pol. Science) (S).

2 Assts.

Russian Institutions and Economics

Meyendorff, A. Reader.

Shipping, v. Transport

Social Science and Administration

Lloyd, C. M., M.A. Ox., Barr.-at-Law Head of Dept.

..... Lectr.

Cullis, Prof. Winifred C., D.Sc. (Physiology) (S).

3 Assts.

Sociology, v. also Anthropology

Hobhouse, L. T., M.A. Ox., D.Lit. Durh., LL.D. St. And. Martin-White Prof.

Westermarck, E. A., Ph.D. Helsing., LL.D. Aberd. Martin-White Prof.

(S) = Special Lectr., not on the School Staff.

* Preparatory for B.Sc. (Econ.) : language courses for B.Com. are provided chiefly at King's and Univ. Colls.

Ginsberg, Morris, M.A., D.Lit. Reader.

Statistics

Bowley, A. L., Sc.D. Camb., F.B.A. Prof.

Rhodes, E. C., B.A. Camb., M.Sc. Reader.

3 Assts.

Transport, v. also Law

Stephenson, W. Tetley, B.A. Camb. Cassel Reader.

Abell, Sir Westcott, K.B.E., M.Eng., M.I.C.E., M.I.N.A. (Shipping) (S).

Burtt, P. (S).

GENERAL INFORMATION

Address—Houghton St., Aldwych, W.C.2.

Telegrams—" Poleconics, Estrand." Telephone 5671 Holborn.

Founded 1895. A School of the Univ. recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in certain subjects only).

Matriculated students are registered as Internal students of the Univ. with a view to the B.Sc. Econ., B.Com., LL.B., and B.A. (with Honours in Geog., Sociology, Anthrop., or History, or the Pass degree with Geog.), or to Higher degrees.

The lectures and classes at the School are open also to those who have not matriculated and do not wish to pursue a full University course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords, by day or evening, the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women, and classes and lectures are given both in the day and in the evening.

The School offers special facilities for post-graduate research, under the supervision of professors or otherwise, and the British Library of Political Science, which is maintained by the School, is open not only to those who are taking courses at the School, but, by permission of the Director, to any person desiring to utilize it for research or consultation. The Fry Library of International Law is housed at the School. The Ratan Tata Foundation for research into social conditions is administered by the School, which maintains in connexion with it a Dept. of Social Science and Administration.

General Composition Fee for the session, Day, 21 gs., Evening, 14 gs. (including Students' Union). Playing fields at Malden are available for members of the Students' Union.

Research Studentships, £175, in addition to fees, are offered from time to time. There are entrance scholarships and prizes.

Publications: *Studies in Econ. and Pol. Sc.*; *Economica*, thrice annually, 2s. 6d.; *Clare Market Review* (Students, once a term). *Bulletin*—with supplements—of the London and Cambridge Economic Service of Statistics and Memoranda, bearing on the current economic position, is maintained by the School, in co-operation with the Univ. of Cambridge and Harvard Univ. Subs. £6 p.a.

STUDENTS, 1923–24. Graduates preparing for higher degrees, 84 (including women—21); other regular students, 734 (women—307); occasional, 1827 (w.—277). Degrees obtained: * B.Sc. (Econ.), 114 (w.—37); * B.Com., 62 (w.—4); M.Sc., 3 (w.—1); Ph.D. (Econ.), 7 (w.—4); D.Sc. (Econ.), 3 (w.—1); D.Lit., 2 (w.—1). Research students, 21 (w.—12).

(S) = Special Lectr., not on the School Staff.

* These figures include the examinations held in the Autumn of 1923 and the summer of 1924.

SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE

CHAIRMAN OF GOVERNING BODY—Rt. Hon. LAURENCE HARDY, P.C., M.A., D.L.

PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).

SECRETARY AND BURSAR—C. FERGUSSON.

TEACHING AND RESEARCH AND ADVISORY STAFF, January 1, 1925

Agriculture
The Principal
6 Assts.

Agr. Engineering
Davies, C., T.D.A.

Agr. Law, Forestry, Book-keeping, Cost Accounting, Surveying, and Building Constn.
Haines, A. H., P.A.S.I.
2 Assts.

Agr. Zoology
Duffield, C. A. W.

Botany
Parkinson, S. T., B.Sc.
Pearl, R. T., B.Sc.

Chemistry
Harwood, S. D. F., M.A., F.I.C.
Scrivener, F. L. C., B.Sc. (Agr.)
Burgess, A. H., B.Sc. (Agric.).
Goodwin, W., M.Sc., Ph.D.

Economics
Wyllie, J., B.Sc. (Agric.), N.D.A., N.D.D.

Entomology
Theobald, F. V., M.A. Camb.

Fruit-growing and Market Gardening
Miskin, W.

Geology and Zoology
Brade-Birks, S. G., D.Sc.

Ironwork, Farriery, and Woodwork
3 Instrs.

Mycology
Salmon, E. S., F.L.S.
Ware, W. M., M.Sc.

Poultry
Rhodes, F. W., D.S.O.

Veterinary Science and Bacteriology
Cave, T. W., F.R.C.V.S.

GENERAL INFORMATION

Address—Wye, Kent. Telephone—1 Wye.

Founded 1894. A School of the Univ. in Science (Agric.).

LIBRARY, 3500 vols. LABORATORIES: Chem. Research, Biol. (35 places), Bact., Entom., Vet. Farm, 460 acres. Forestry demonstration plantation.

COURSES qualify for B.Sc. (Agric.), B.Sc. (Hort.), C.D.A. (Wye) (3 yrs.), C.D.H. (Wye) (3 yrs.), N.D.A., P.A.S.I., and are suitable preparation for farming at home or abroad, research work, or such posts as lecturer in agric., agric. organizer and administrator, estate manager. A large percentage of past students of the College hold such posts at present. Extension Lectures, summer courses for Elem. School Teachers, short courses for farmers' sons. FEES, inclusive for board, lodging, and tuition: British Subjects, £150 p.a.; others, £180 p.a. Tuition only—British subjects, £85; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, and W. Sussex. Number of Students (1923–24), 156; internal, 29; others, 127; degrees obtained, 12.

LONDON DAY TRAINING COLLEGE

CHAIRMAN OF COUNCIL—ERNEST BARKER, Esq., M.A., D.Litt., LL.D.

STAFF, January 1, 1925

Nunn, T. Percy, M.A., D.Sc.
Principal and Prof. of Education.
Punnett, Margaret, B.A.
Vice-Principal.
Burt, C. L., M.A. Ox., D.Sc.
Part-time Prof. of Educn.
Lecturers and Tutors :
Bell, J. J., M.A. Ox. and Liv.
Fairgrieve, J., M.A. Ox., B.A.
Hague, J. C., M.A. Vict.
von Wyss, Clotilde, F.L.S.
Calthrop, Miss M. G., Mod. Lang. Tripos Part-time Lectr.
4 Instrs. in Art and Handwork, 1 in Music, 2 in Physical Training. 9 Supervisors of School Practice.

GENERAL INFORMATION

Address—Southampton Row, W.C.1.

Founded 1902. The Chancellor and Vice-Chancellor of the Univ. and Chairmen of the L.C.C. and London Educn. Committee are *ex-officio* members of the College Council. A School of the Univ. in Pedagogy.

Schools under the L.C.C. and others are used for practical instruction, and 3 Demonstration Schools are attached to the College.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C.2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to Theory, etc., of Educn. and obtain the Univ. diploma. *Fees* : London students—*nil* ; others—for a year spent entirely at the Training College for a professional course, £40. The *Londinian Review* is published by an old students' assocn. Number of internal students (1923–24), 185, including 130 women. Total number enrolled for 1924–25 : 4-yr. course, 496 ; 1-yr., 120 ; higher degrees, 17.

SCHOOL OF ORIENTAL STUDIES

PATRON—H.M. THE KING.
VISITOR—THE PRESIDENT OF THE BOARD OF EDUCATION.
CHAIRMAN—Sir JOHN P. HEWETT, G.C.S.I., K.B.E., C.I.E.
DIRECTOR—Sir E. DENISON ROSS, C.I.E., Ph.D.
DEAN—C. O. BLAGDEN, M.A., D.Litt.
SECRETARY—Miss C. L. CLEGG.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Amharic and Ethiopic

Athill, Major L. F. I. Lectr.* (Amh.).
Weld, H., B.Litt. Ox. Lectr.*
Harden, Rev. J. M., M.A., D.D., LL.D. Lectr.* (Eth.).
Hirschfeld, H., Ph.D. Lectr.* (Eth.).

Arabic

Arnold, Sir Thos. W., C.I.E., Litt.D., M.A. Camb. Prof. (Classical A.).
Kader, Sheikh H. Abd el Lectr. (Egyptian A.).
Sefi, A. Lectr. (Syrian & Class. A.).
Gibb, H. A. R., M.A. Lectr. (Classical A.).
Fulton, A. S., M.A. Lectr.* (Classical A.).
Dojaily, Sheikh Kadhim (Mesopotamian A.) Lectr.

Armenian

Tonapetean, P. Lectr.*

Assamese and Khasi

Gurdon, Lt.-Col. P. R. T., C.S.I. Lectr.*

Bengali

Page, W. S., O.B.E., B.A., B.D. St. And. Reader.

Burmese

Hough, A. L. Lectr.

Chinese

..... Prof.
Edwards, E. Dora, B.A. Lectr. (Mandarin).
Shu, C. C. Lectr. (Mandarin).
Hopkins, L. C., I.S.O. Lectr.* (C. Palæog.).
Steele, J., M.A., D.Lit. Lectr.* (Amoy & Swatow).
Waley, A. Lectr.* (C. Poetry).

Gujarati

Doderet, W., M.A. Camb., I.C.S. (retd.) Lectr.

Hausa

Gill, J. W., O.B.E. Lectr.

Hebrew, Modern

Doniach, A. S., B.Litt. Ox. Lectr.

Hindostani

Bailey, T. G., M.A., B.D., D.Lit. Edin. Reader (Urdu & H.).
Leeson, G. E. Lectr. (Urdu & Hindi).
Palmer, T. G. F. Lectr.
Chopra, G. L., Ph.D. Lectr.* (Urdu).

History and Culture of British Dominions in Asia, especially India, v. also Sansk.

Dodwell, H. H., M.A. Ox. Prof.

Japanese

Isemonger, Commdr. N.E., R.N. (retd.) Lectr.

* On panel of additional lectrs., not on regular staff.

Yoshitake, S. Lectr.
Mere, G. Lectr.*

Kanarese
Edwardes, S. M., C.S.I., C.V.O. Lectr.*

Law, Indian [Lectr.
Sabonadière, A., I.C.S. (retd.)

Malay
Blagden, C. O., M.A. Ox., D.Litt. Rangoon Reader.

Marathi
Kanhere, S. G. Lectr.

Pali
Davids, Mrs. C. A. R., D.Litt., M.A. Lectr.

Persian
Dārāb, G. H., Khan Lectr.
Ross, Sir E. D., C.I.E., Ph.D. Stras. Prof.
Wilson, C. E., B.A. Lectr.
Phillott, Lt.-Col. D. C. Lectr.*

Polynesian, Melanesian, Micronesian, and Papuan
Ray, S. H., M.A. Lectr.*

Sanskrit
Turner, R. L., M.A., M.C. Prof.
Barnett, L.D., M.A., Litt.D. Manc., M.A. Camb. Lectr. (S. & Anc. Indian History).
Allan, J., M.A. Lectr.* (Oriental Palæog.).

Shan
Inman, Capt. H. J. Lectr.*

Siamese [Lectr.*
Cartwright, B. O., B.A. Camb.

Swahili and Bantu
Werner, Alice Prof.

Tamil and Telugu
Wickremasinghe, M. de Z., M.A. Ox. Reader.

Turkish
Topalian, S. Lectr.
Ali Riza Bey Lectr.

* On panel of additional lectrs., not on regular staff.

GENERAL INFORMATION

Address—Finsbury Circus, E.C.2.

Established by Royal Charter, 1916. A School of the Univ. in Arts. *Library*, 90,000 vols. *Fees*: 3½ to 20 gs. per session; I.C.S. probationers, 30 gs. *Scholarships* (Gilchrist), 2 of £50 in Turkish and Chinese. Teaching provided in more than 45 languages and in the history, religions, and customs of Oriental and African countries. Special facilities for research work. *Number of Students* (1923–24), internal, 11; others, 364. Degrees obtained: *Ph.D.*, 2.

BEDFORD COLLEGE FOR WOMEN

VISITOR—Rt. Hon. VISCOUNT HALDANE OF CLOAN, O.M., K.T., F.R.S.

CHAIRMAN OF COUNCIL—Sir WILMOT HERRINGHAM, K.C.M.G., C.B., M.D., F.R C.P.

PRINCIPAL—Miss M. J. TUKE, M.A. Dub.

RESIDENT TUTOR—Miss L. C. KEMPSON, M.A. Dub.

SECRETARY—Miss O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—Miss E. M. E. HAYDON, M.A.

LIBRARIAN—Miss J. A. PATERSON.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Botany [Prof.
Jones, W. Neilson, M.A. Camb.
Halket, Miss A. C., B.Sc. Lectr.
Garside, S., M.Sc. Manc. Lectr.

Chemistry, Inorganic and Physical
Spencer, J. F., Ph.D. Bres., D.Sc. Liv., F.I.C. Reader (Physical C.).
Crewdson, Miss M. S., M.Sc. Lectr.
2 Demrs.

Chemistry, Organic
Crompton, Holland, F.C.S. Reader.
2 Demrs.

Classics [Reader (Greek).
MacGregor, J. M., M.A. Ox.
Tarrant, Miss D., M.A. Lectr.
Williamson, Harold, M.A. Ox. Prof. (Latin).
FitzGerald, Miss K., B.A. N.U.I. Lectr.
Furness, Miss S. M. M. Lectr.
1 Asst. (part-time).

Dutch
Geyl, P., Litt.D. Leyden Prof.
Harting, P., Litt.D. Utrecht Reader.

English Language and Mediæval Lit. [Reader.
Thomas, P.G., M.A. Camb. and Liv.
1 Asst. (part-time).

English Literature
Spurgeon, Miss C., Litt.D. Mich., D. de l'U. Paris Prof.
Routh, H. V., M.A. Camb. Reader.
Covernton, Miss A. B. Lectr.
Ellis-Fermor, Miss U. M., M.A., B.Litt. Ox. Lectr.
1 Asst. (part-time).

French Language and Mediæval Lit. [Sr. Lectr.
Johnson, Miss F. C., M.A. (Tutor for *Journalism* courses)
Terry, Mrs., M.A. Lectr.

French Literature
Eccles, F. Y., M.A. Ox. Prof.
The Principal Lectr.
Legros, René P., M.A. Edin. and Ox. Lectr.
Mackie, Miss M. D. Part-time ,,

Geography
Hosgood, Miss B., B.A. Reader.
Gilbert, E. W., B.A. Ox. Jr. Lectr.

Geology [Reader.
Hawkes, L., M.Sc. Durh., F.G.S.
2 Demrs. (1 part-time).

German
Robertson, J. G., B.Sc., M.A. Glas., Ph.D. Leip. Prof.
Massey, Miss I. M., Ph.D. Marb. Reader.
Haltenhoff, A. G. (part-time) Lectr.

History, Ancient [Reader
Cary, M., M.A., D.Litt. Ox.

History, Modern [Barclay Lectr.
Allen, J. W., M.A. Ox.
Haward, Miss W. I. Lectr.
Tooley, Miss M. J., M.A. Jr. Lectr.

Italian
Dobelli, S'rina E. B. Sr. Lectr.
1 Asst.

Journalism, v. French

Mathematics [Prof.
Hilton, Harold, M.A., D.Sc. Ox.
Marshall, J., M.A., D.Sc. St. And. Reader.
Turner, Miss E. M., M.A. Lectr.
Honeybourne, Miss D. M., B.A. Part-time Lectr.

Philosophy
Edgell, Miss B., D.Litt. Wales, Ph.D. Würz. Reader (Psych.).
Hazlitt, Miss V. H., M.A. Lectr.
Stebbing, Miss L. S., M.A. Lectr.
McFarlane, Miss M. M., Ph.D. Temp. Lectr.
1 Asst. (part-time)

Physics
Wilson, W., Ph.D. Leip., D.Sc., F.R.S. Prof.
Saltmarsh, Miss M. O., B.A. Dub., Ph.D. Lectr.
2 Demrs.

Physiology
Edkins, J. S., M.A., M.B., Sc.D. Camb. Reader.
Edkins, Mrs., M.Sc. Lectr.
1 Demr.

Social Studies and Economics
Reid, Mrs. Director.
Williams, Mrs., B.A. Vict. Lectr.
4 Visiting Lecturers

Zoology
Boulenger, C. L., M.A. Camb., D.Sc. Birm., F.Z.S. Prof.
Hett, Miss M. L., B.Sc. Jr. Lectr.
1 Demr.

GENERAL INFORMATION

Address—Inner Circle, Regent's Park, N.W.1.
Telephone—Langham 1420.

Founded 1849. A School of the Univ. in Arts and Science. Tate LIBRARY and Wernher Reading-Room contain 35,000 volumes. Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 17. Students are prepared for all examns. of the Univ. of London in Arts and Science. In Medicine the College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 94 students in the Coll. and 108 at hostels. FEES (Inclusive Sessional), for tuition: Interm. Arts—42 gs.; B.A.—31 to 46½ gs.; M.A.—8½ to 15 gs; Interm. Science and B.Sc. Pass—53 gs.; B.Sc. Hons.—38 to 53 gs.; M.Sc. and Ph.D.—15 to 21 gs. Residence with board —76 to 100 gs. Union Society—15s.; Athletic Union—25s.

SCHOLARSHIPS for graduates: One (Lady Huggins) in Sociology, awarded from time to time; one (Amy Lady Tate) for research in Arts or Science, £125 p.a. for 2 yrs.; "F.M.W." Medical, £50; Gilchrist Training, £30 for 1 yr.; Notcutt Travelling Studentship, £200 for session 1925–26.

PUBLICATIONS: *Calendar*, post free, 2s. 6d.; B.C. *Magazine* (Students).

STUDENTS (1923–24): Internal, 559; preparing for B.A., 327; B.Sc., 189; Dip.Geog., 2; Dip.Journalism, 13; 2nd M.B., 3; M.A., 22; M.Sc., 12; Social Studies, 48; occasional, 22. Degrees obtained: B.A., 86; B.Sc., 47; M.A., 4; M.Sc., 3; Ph.D., 1; D.Sc., 1.

ROYAL HOLLOWAY COLLEGE FOR WOMEN

CHAIRMAN OF THE GOVERNORS—P. E. MATHESON, Esq., M.A.
PRINCIPAL—Miss E. C. HIGGINS, B.A.
SECRETARY TO THE GOVERNORS—Miss U. R. DOLLING.
PRINCIPAL'S ASSISTANT AND LIBRARIAN—Miss E. E. LOOKER, B.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Botany [Sr. Lectr.
Blackwell, Miss E. M., M.Sc. Liv.
Light, Miss K. E., B.Sc.
Asst. Lectr. & Demr.

Chemistry
Moore, T. S., M.A. Ox. Prof.
Boyle, Mary, D.Sc. Lectr. & Demr.
Boase, Frances M., B.Sc.
Asst. Demr.

Classics
Sleeman, J. H., M.A. Prof.
Taylor, Margaret E. J., M.A. Dub.
Sr. Lectr.
Robertson, Miss M. W. U., M.A. Aberd. Lectr.

English [Sr. Lectr.
Block, Katharine S., M.A. Dub.
Willcock, Gladys D., M.A. Lectr.
Robertson, Miss A. J., M.A., St. And. Asst. Lectr.

French [Sr. Lectr.
Honey, Margaret E. D., M.A.
McWilliam, Miss N., M.A. Edin.
Lectr.
Wilson, Miss C. I., M.A. Aberd., Ph.D. Asst. Lectr.
Baudoin, Mlle. M. (Conversation)
Assistante.

German
Delp, Wilhelmina E., Doct. de l'Univ. Paris Sr. Lectr.
Richey, Margaret F., M.A.
Asst. Lectr.

History [Prof.
Johnstone, Hilda, M.A. Manc.
Powell, Miss I. G., M.A. Lectr.

Mathematics [Prof.
Baker, B. B., D.Sc. Edin., M.A.
Rowell, Ethel M. Sr. Lectr.
Pick, Marion, M.A. Lectr.
The Principal.

Physics
Horton, F., Sc.D. Camb., M.Sc. Birm., D.Sc., F.R.S. Prof.
Davies, Ann C., D.Sc.
Lectr. & Demr.
Andrewes, Ursula, M.Sc.
Asst. Demr.

Art

Drawing and Painting
Carey, C. W. Teacher.

Music
Barker, Miss S. M.
Lectr. & Director.
4 Visiting Teachers.

GENERAL INFORMATION

Address—Englefield Green, Surrey. Telephone—114 Egham.

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Science. LIBRARY, 17,000 vols. LABORATORIES: Bot., Chem., Physics. Botanic Gardens—area of grounds, 95 acres. Residential accommodation for 196. Courses for Bachelorship and Higher degrees in Arts and Science. Inclusive FEES: £135 a yr. Post-graduate studentships, 3 or 4 of £40 each, open to students of the Coll. only. PUBLICATIONS: *Calendar*, 2s. post free; R.H.C. *Letter* (Students' Mag.).

STUDENTS (1923–24), 198; degrees obtained: B.A., 39; B.Sc., 26; M.A., 1.

WESTFIELD COLLEGE, HAMPSTEAD

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir THOMAS INSKIP, C.B.E., K.C., M.P.

PRINCIPAL—Miss E. C. LODGE, M.A. Ox., F.R.Hist.S.

LECTURERS, January 1, 1925

Botany [Reader.
Delf, Miss E. M., D.Sc., F.L.S.
Grubb, Miss V. M., M.Sc.

Classics
Parker, Miss C. E., M.A. Ox.
Glover, Miss M. R., B.A. Ox.
Richardson, Miss A. W., B.A. (Vice-Principal).
Botting, C. G., M.A. Camb. (part-time).
Norris, J. W. Coke, M.A. Ox. (part-time).

English Lang. and Lit.
Warren, Miss K. M. Reader.
Ashdown, Miss M., M.A. Camb.

French
Turquet, Mme., M.A., D.Lit. Reader.
Crosland, Mrs., M.A. (part-time).

History
Skeel, Miss C. A. J., D.Lit., F.R.H.S. Reader.
Martin, Miss E. C., M.A.
The Principal.

Mathematics, Pure and Applied
Whitby, Miss L. J., B.A.
Palmer, Mrs., M.A. (part-time).

GENERAL INFORMATION

Address—Kidderpore Avenue, Finchley Rd., N.W.3.
Telephone—734 Hampstead.

Founded in 1882 by Miss Dudin Brown for the higher education of women. The college is undenominational, but the Principal is required to be a member of the Church of England. Situated near the south-west corner of Hampstead Heath; has residential accommodation for 87 students.

A School of the University in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Faculty of Science in Bot. and Maths. are provided, as well as in Arts. Research Studentships are from time to time offered to graduates of this Univ. and of other Univs. Two rooms are set aside for Botanical Research. *Fees*: For tuition from 38 to 53 gs., residence £90 per session. There is an Old Students' Assocn. *Publications*: Hermes (Students' Mag.). *The Year* 1923–24: Students preparing for B.A., 96; B.Sc., 19; Higher degrees, 6. *Degrees obtained*, Oct. 1923: B.A., 25; B.Sc., 5; M.A., 1; M.Sc., 1. June 1924: B.A., 31; B.Sc., 4; Ph.D., 1; M.A., 2.

THEOLOGICAL SCHOOLS OF THE UNIVERSITY

RECOGNIZED TEACHERS, January 1, 1925

In the following list the names of the Theological Schools are indicated by symbols thus :

HACKNEY AND NEW COLLEGE, HAMPSTEAD (N).
REGENT'S PARK COLLEGE (R).
KING'S COLLEGE THEOLOGICAL DEPT. (KT).
WESLEYAN COLLEGE, RICHMOND (WR).
ST. JOHN'S HALL, HIGHBURY (J).

Classics
Kilner, G. W., M.A. (N., R.).

Philosophy, v. Theology

Semitic Languages [(J.).
Greenup, A. W., M.A. Dub. and Camb., D.D. Ont., Litt.D. Dub. (Hebrew and Aramaic)

Theology
Andrews, H. T., B.A. Ox., D.D. Aberd. (N.).
Barber, W. T. A., M.A. Camb., D.D. Dub. (WR.).
Barry, F. R., D.S.O. (KT.).
Box, G. H. (KT.).
Davies, W. A., M.A. Ox. and Wales, B.D. (N.).
Dearmer, P., D.D. Ox. (KT.).
Garvie, A. E., M.A. Glas. and Ox., D.D. Glas. (N.).
Gore, Rt. Rev. C., D.D., D.C.L. Ox., D.D. Edin. and Durh., LL.D.Camb. and Birm. (KT.).
Green, S. W., M.A. (also recognized in *Philos.*) (R.).
Greenup, A. W. (v. Semitic Languages) (J.).
Jenkins, C., M.A. Ox., F.S.A. (KT.).
Matthews, W. R., M.A., D.D. (KT.).
Relton, H. M., D.D. (KT.).
Robinson, H. W., M.A. Ox. and Edin. (R.).
Rogers, C. F., M.A. Ox. (KT.).
Scullard, H. H., M.A. Camb., M.A., D.D. (N.).
Smith, C. R., B.A., D.D. (WR.).
Smith, H., M.A. Camb. (J.).
Titterton, C. H., M.A., B.D. Edin. (J.).
Waterhouse, E. S., M.A., D.D. (WR.).

GENERAL INFORMATION

HACKNEY AND NEW COLLEGE, HAMPSTEAD * (Congregational), Finchley Road, N.W.3. Principal—A. E. Garvie, M.A., D.D. Secretaries—Rev. H. Staines, M.A., B.D., and Rev. T. R. Grantham.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 30,000 vols. *Fees* for B.D. course for non-ministerial students : 30 gs. p.a. *Number of Students* : 46.

* See note on p. 149.

REGENT'S PARK COLLEGE * (Baptist), Regent's Park, N.W.8. Principal—Rev. H. W. Robinson, M.A. Secy.—Rev. C. M. Hardy, B.A.

Founded 1810. Students for an Arts degree attend classes at Univ. Coll. *Fees*: 2½ gs. each class per term. *Number of Students*: 24.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Telephone—207 and 208 Gerrard. Dean—W. R. Matthews, M.A., D.D. Secy.—S. T. Shovelton, M.A.

Founded 1829 (v. *supra*, King's College). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £30 per session; entrance, £6. *Hostel* for students: fee for residence, £22 per term. *Number of Internal Students* (1923–24): 40. Total full-time students, 150.

WESLEYAN COLLEGE, RICHMOND, Surrey. Principal—W. T. A. Barber, M.A., D.D. Secy. of Committee—Rev. L. F. Church, B.A.

Opened 1843. All students are accepted candidates for Ministry of Wesleyan Methodist Church. Residential accommodation for 60. *Number of Students*: 59.

ST. JOHN'S HALL, HIGHBURY, London, N.5 (Church of England). Principal—A. W. Greenup, M.A., D.D., Litt.D. Hon. Secy. of Council—Rev. T. J. Pulvertaft, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for L.Th. Durham as well as for B.D. of London. *Fees*: Entrance, 2 gs.; board and tuition, £90. Residential accommodation for 51 students. *Number of Students* (1924–25): Preparing for D.D.—1; others—43.

* These two co-operate, joint classes being held under a common staff of teachers.

MEDICAL SCHOOLS OF THE UNIVERSITY

RECOGNIZED TEACHERS, January 1, 1925

Note.—In the following list the names of the Medical Schools are indicated by symbols thus :

ROYAL ARMY MED. COLLEGE (AM).
ST. BART.'S HOSP. MED. COLL. (B).
BETHLEM ROYAL HOSPL. (Bm).
CHARING CROSS HOSPL. MED. SCH. (C).
ROYAL DENTAL HOSPL. AND LOND. SCH. OF DENT. SURG. (D).
GUY'S HOSPL. MED. SCH. (G).
LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (H).
KING'S COLL. HOSPL. MED. SCH. (KM).
LONDON HOSPL. MED. COLL. (L).
LISTER INSTITUTE (LI).
LONDON (R.F.H.) SCH. OF MED. FOR WOMEN (LW).
MIDDLESEX HOSPL. MED. SCH. (M).
MAUDSLEY HOSPL. (My.).
NAVAL MED. SCH., GREENWICH (NM).
ST. GEORGE'S HOSPL. MED. SCH. (SG).
ST. MARY'S HOSPL. MED. SCH. (SM).
ST. THOMAS'S HOSPL. MED. SCH. (T).
UNIV. COLL. HOSPL. MED. SCH. (UM).
WESTMINSTER HOSPL. MED. SCH. (W).

and names of certain Hospitals (v. p. 165) having recognized teachers thus :

BROMPTON HOSPL. FOR CONSUMPTION (24).
HOSPL. FOR SICK CHILDREN (25).
NATIONAL HOSPL. FOR PARALYSED AND EPILEPTIC (26).
ROYAL LONDON OPHTHALMIC HOSPL. (27).

Anæsthetics

Braine, C. C., F.R.C.S. (C.).
Chaldecott, J. H., L.R.C.P. (SM.).
Charles, H., M.R.C.S., L.R.C.P. (M.).
Gandy, E. W., O.B.E., B.A. Camb., M.R.C.S., L.R.C.P. (W.).
Gilliatt, Mrs., M.B., B.S. (LW.).
Hughes, C. H. M., M.B., B.S. (KM.).
Mennell, Z., M.B. (T.).
Probyn-Williams, R. J., M.D. Durh. (L.).
Shipway, F. E., M.A., M.D., B.Ch. Camb. (G.).
Shirley, H. J., C.M.G., M.D., F.R.C.S. (UM.).

Anatomy [Reader (B.).

Clark, W. E. Le G., F.R.C.S.
Frazer, J. E. S., F.R.C.S. Prof. (SM.).
Greene, W. H. C., C.B.E., B.A., M.B., B.Ch. Camb., F.R.C.S. (SM.).
Hume, J. B., M.B., B.S. (B.).
Johnston, T. B., M.B., Ch.B. Edin. Prof. (G.).
Keene, Mrs. M. F. L., M.B., B.S., Prof. (LW.).
Parsons, F. G., F.R.C.S. Prof. (T.).
Shore, L. R., M.A., M.B., B.Ch. Camb. (B.).
Wright, W., D.Sc. Bir., M.B., Ch.B. Manc., F.R.C.S. Prof. (L.).

(B), (C), etc., (23), (24), etc., v. *Note* above.

Yeates, T., M.B., C.M. Edin., B.Hy., D.P.H. Durh. Prof. (M.).

Anatomy, Morbid

Nicholson, G. W. de P., M.A., M.D. Reader, Morb. *Histol.* (G.).
Spilsbury, B. H., M.A., B.M., B.Ch. Ox. (B.).
Turnbull, H. M., M.A., B.Ch., D.M. Ox. Prof. (L.).
Urquhart, A. L. (T.).

Bacteriology, v. also Path.

Bamforth, J., M.D. (T.).
Bulloch, W., M.D., C.M., LL.D. Aberd., F.R.S. (recogd. in Path.) Goldsmiths' Prof. (L.).
Eyre, J. W. H., M.D., M.S. Durh., D.P.H. Camb. Prof. (G.).
Fleming, A., M.B., F.R.C.S. (SM.).
Freeman, J., M.A., D.M., B.Ch. Ox. (SM.).
Goadby, Sir Kenneth W., K.B.E., L.R.C.P., M.R.C.S., L.D.S., D.P.H. Camb. (UM.).
Gordon, M. H., C.M.G., C.B.E., B.Sc., D.M. Ox. (B.).
Hunt, E. L., D.P.H. Camb., M.B., B.S. (also in Path.) (SG.).
Ledingham, J. C. G., C.M.G., M.A., M.B., Ch.B., D.Sc. Aberd., F.R.S. Prof. (LI.).
Petrie, G. F., M.D., Ch.B. Aberd. (LI.).
Wright, H. D., B.A. Tasmania, M.B., Ch.B. Edin. (UM.).

Bio-Chemistry, v. also Chem. Path.

Harden, A., D.Sc. Manc., Ph.D. Erl., F.R.S. Prof. (LI.).
McLean, I. S., D.Sc. (LI.).
Ryffel, J. H., M.A., B.Ch. Camb., B.Sc., F.I.C. (recogd. in Forensic Med.) Reader (G.).

Biology

Cunnington, W. A., M.D. (B.).
Evans, T. J., M.A. Ox. (G., 9).
Leigh-Sharpe, W. H., B.Sc. (SM.).
Mudge, G. P., A.R.C.S. (L., LW.).
Rushton, W., A.R.C.S. (T.).
Woodger, J. H., B.Sc. Reader (M.).

Chemistry

Candy, H. C. H., B.A., B.Sc., F.I.C. (L.).
Gibson, C. S., O.B.E., M.A. Ox. and Camb., B.Sc. Ox., M.Sc. Manc., F.I.C. Prof. (G.).
Hurtley, W. H., D.Sc. Reader (B.).
Plimmer, R. H. A., D.Sc. Prof. (T.).
Tuck, W. B., D.Sc. Prof. (M.).
Widdows, Sybil T., B.Sc., F.I.C. (LW.).

Chemistry, Pathological, v. also Bio-Chem.

de Wesselow, O.L.V., M.B., B.Ch. (T.).
Dodds, E. C., M.B., B.S. (M.).
Wallis, R. L. M., M.A., M.D. Camb. (B.).
Willcox, Sir Wm. H., K.C.I.E., C.B., C.M.G., M.D., B.Sc., F.R.C.P., F.I.C., F.C.S., D.P.H. (also in Med. and For. Med.) (SM.).

Chemistry, Physiological

Gardner, J. A., M.A. Ox., F.I.C. Reader (LW., SG.).

Dental Science, v. *infra*

Dermatology [(B.).

Adamson, H. G., M.D., F.R.C.P.
Barber, H. W., B.Ch., M.B., M.A. Camb., F.R.C.P. (G.).
Davis, H. D., B.A., B.M., B.Ch. Ox., F.R.C.S. (LW.).
Dore, S. E., M.A., M.D., B.Ch. Camb., F.R.C.P. (W., T.).
Fox, W. S., M.D., B.Ch., M.A. Camb., F.Z.S. (SG.)

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

Gray, A. M. H., C.B.E., M.D., B.S., F.R.C.S., F.R.C.P. (UM.).
Little, E. G. G., B.A. Cape, M.D., F.R.C.P. (SM.).
MacCormac, H. (v. Med., p. 154) (M.).
Macleod, J. MacL. H., M.D., C.M. Aberd., M.A. St. And., F.R.C.P. (C.).
Sequeira, J. H., M.D., F.R.C.P., F.R.C.S. (L.).
Stainer, E., M.A., M.D., B.Ch. Ox., F.R.C.P. (T.).
Whitfield, A., M.D., F.R.C.P. (KM.).

Diseases of Children

Jewesbury, R. C., M.A., M.D. Ox., F.R.C.P. (T.).

Diseases of Children & Medicine

Cameron, H. C., M.A. Camb. and Glas., M.D. Camb., F.R.C.P. (G.).
Fletcher, H. M., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.).
Poynton, F. J., M.D., F.R.C.P. (25, UM.).
Still, G. F., M.D., B.Ch., M.A. Camb., F.R.C.P. (25, KM.).
Thompson, H. T., M.D., B.Ch., M.A. Camb., B.Sc., F.R.C.P., F.R.C.S. (25, L.).
Thursfield, J. H., D.M., M.A. Ox., F.R.C.P. (25, B.).
Voelcker, A. F., M.D., B.S., F.R.C.P. (25, M.).

Diseases of Children & Surgery

Fairbank, H. A. T., O.B.E., M.S., M.B., F.R.C.S., L.D.S. (25, KM.).

Diseases of Women

Hedley, J. P., M.A., M.Ch., M.B. Camb., F.R.C.P., F.R.C.S. (T.).
Vaughan-Sawyer, Mrs., D.Sc., LL.D. Glas., M.D., B.S. (LW.).

Diseases of Women and Midwifery

Barris, J. D., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Berkeley, G. H. A. C., M.A., M.D., M.Ch. Camb., F.R.C.P. (M.).
Bonney, W. F. V., M.D., M.S., B.Sc., F.R.C.S. (M.).
Chapple, H., M.A., M.Ch., M.B. Camb., B.Sc., F.R.C.S. (G.).
Donaldson, M., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Fairbairn, J. S., M.A., M.B., B.Ch. Ox., F.R.C.P., F.R.C.S. (T.).
Holland, E., M.D., F.R.C.S., F.R.C.P. (L.).
Luker, S. G., M.A., M.D., B.Ch. Camb. (L.).
Playfair, H. J. M., M.D., F.R.C.P., F.R.C.S. (KM.).
Robinson, G. H. D., M.D., B.S., F.R.C.P. (W.).
Roy, D. W., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Williamson, H., M.A., M.B., B.Ch. Camb., F.R.C.P. (B.).

Forensic Med., v. also Bio-Chem., Chem.—Path.

Brend, W. A., M.A. Camb., M.D., B.Sc. (C.).
Burridge, H. A., M.A., M.B. Dub. (KM.).
Jones, G., M.A., B.M., B.Ch. Ox., D.P.H. (L.).
Lynch, G. R., M.B., B.S., D.P.H.. (W.)
Lyster, R. A., M.D., Ch.B., B.Sc. (Pub. Health), D.P.H. Birm., B.Sc. (also in Hyg.) (B.).
Smith, E., M.D. (T.).

Helminthology

Leiper, R. T., D.Sc., M.D., Ch.B. Glas. Prof. (H.).

Hygiene [(SM.).

Brincker, J. A. H., B.A., M.B., B.Ch. Camb., D.P.H., F.I.C.

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

Brown, R. K., M.D., B.Ch., B.A.O., B.A. R.U.I., D.P.H. (G.).
Carnwath, T., B.A., M.B., B.Ch., B.A.O. (R.U.I.), D.P.H. Camb. (T.).
Copeman, S. M., M.A., M.D. Camb., F.R.S., F.R.C.P., D.P.H. (W.).
Foulerton, A. G. R., O.B.E., D.P.H. Camb., F.R.C.S. (LW.).
Lyster, R. A. (v. Forensic Medicine) (B.).
Porter, C., M.D., C.M., B.Sc. Edin. (M.).
Simpson, Sir Wm. J. R., C.M.G., M.D., C.M. Aberd., F.R.C.P., D.P.H. Camb. Prof. (KM.).
Spitta, H. R. D., M.V.O., M.D. Durh., D.P.H. Camb. (SG.)

Laryngology, Oto-Rhino-

Barwell, H. S., M.B., F.R.C.S. (SG).
Cheatle, A. H., C.B.E., F.R.C.S. (KM.).
Cleminson, F. J., M.A., M.Ch. Camb., F.R.C.S. (M.).
De Santi, P. R. W., F.R.C S. (W.).
French, J. G., M.B., M.S., F.R.C.S. (LW.).
Graham, C. I., F.R.C.S. (SM.).
Harmer, W. D., M.Ch., M.B., M.A. Camb., F.R.C.S. (B.).
Hastings, S., M.S., M.B., F.R.C.S. (M.).
Hope, C. W. M., M.D., B.S. Durh., F.R.C.S. (KM.).
Howarth, W. G., M.A., M.B., B.Ch. Camb., F.R.C.S. (T.).
Lack, H. L., M.D., F.R.C.S. (L.).
Layton, T. B., M.B., M.S., F.R.C.S. (G.).
Lees, K. A., M.A., M.B., B.Ch. Camb., F.R.C.S. (SM.).
Marriage, H. J., M.B., B.S., F.R.C.S. (T.).
Mollison, W. M., C.B.E., M.A., M.Ch. Camb., F.R.C.S. (G.).
Muecke, F. F., C.B.E., M.B., B.Ch. Adel., F.R.C.S. (L.).
Patterson, N., M.B., Ch.B. Edin., F.R.C.S. (L.).
Rose, F. A., M.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Scott, S. R., M.S., M.B., F.R.C.S. (B., 26).
Tilley, H., B.S., M.D., F.R.C.S. (UM.).
Waggett, E. B., M.B., B.Ch., M.A. Camb. (C.).
West, C. E., F.R.C.S. (B.).

Medicine, v. also Chem.—Path., Dis. of Child., Ment. Path., Pharmacol.

Abrahams, A., B.A., M.D., B.Ch. Camb. (W.).
Beaumont, G. E., M.A., D.M. Ox., F.R.C.P., D.P.H. (M.).
Beddard, A. P., M.D., B.Ch., M.A. Camb., F.R.C P., F.R.C.S. (G.).
Bennett, T. I., M.D. (M.).
Bolton, C., C.B.E., M.D., B.S., D.Sc., F.R.C.P., F.R.S. (UM.).
Bosanquet, W. C., M.A., D.M. Ox., F.R.C.P. (C., 24).
Box, C. R., M.D., B.S., B.Sc., F.R.C.P., F.R.C.S. (T.).
Branson, W. P. S., C.B.E., M.D., B.Ch., B.A. Camb., F.R.C.P. (LW.).
Briscoe, Sir John C., Bart., M.D., F.R.C.P. (KM.).
Broadbent, Sir John F. H., Bart., M.D., B.Ch., M.A. Ox., F.R.C.P. (SM.).
Brown, W. L., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.).
Buzzard, E. F., M.D., B.Ch., M.A. Ox., F.R.C.P. (T., 26).
Carlill, H., M.A., M.D., B.Ch. Camb. (W.).
Cassidy, M. A., M.A., M.D., B.Ch. Camb., F.R.C.P. (T.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

Chodak Gregory, Mrs. H. H., M.D. (LW.).
Cockayne, E. A., M.A., D.M. Ox., Ch.B., F.R.C.P. (M.).
Collier, J. S., M.D., B.Sc., F.R.C.P. (SG., 26).
Crawfurd, R. H. P., M.D., B.Ch., M.A. Ox., F.R.C.P. (KM.).
Dawson of Penn, The Rt. Hon. Lord, G.C.V.O., K.C.M.G., C.B., M.D., B.Sc., F.R.C.P. (L.).
De Souza, D. H., M.D., D.Sc., F.R.C.P. (W.).
Elliott, T. R., C.B.E., M.A., M.D. Camb., F.R.C.P., F.R.S. Prof. (UM.).
Ellis, A. W. M., O.B.E., M.D. Prof. (L.).
Evans, A. G., B.A., M.D. Camb., F.R.C.P. (B.).
Fawcett, J., M.D., B.S., F.R.C.P., F.R.C.S. (G.).
Fenton, W. J., M.A., M.D., B.Ch. Camb., F.R.C.P. (C., 24).
Firth, A. C. D., M.A., M.D., B.Ch. Camb., F.R.C.P. (LM.).
Forsyth, D., M.D., D.Sc., F.R.C.P. (C.).
Fraser, F. R., B.A. Camb., M.B., Ch.B., F.R.C.P. Edin. Prof. (B.).
French, H. S., C.B.E., M.D., B.Ch., M.A. Ox., F.R.C.P. (G.).
Gosse, A. H., M.D., M.A. Camb. (SM.).
Hadley, W. J., M.D. Durh., D.P.H. Camb., F.R.C.P., F.R.C.S. (L.).
Hare, Dorothy C., M.D. (LW.).
Harris, W., B.A., M.D., B.Ch. Camb., F.R.C.P. (SM.).
Hartley, Sir Percival H.-S., C.V.O., M.D., B.Ch., M.A. Camb., F.R.C.P. (B., 24).
Head, H., M.A., M.D. Camb., F.R.C.P., F.R.S. (L.).
Herringham, Sir Wilmot P., K.C.M.G., C.B., B.A., M.D. Ox. and Dub., F.R.C.P. (B.).
Horder, Sir Thos. J., Bart., M.D., B.Sc., F.R.C.P. (B.).
Howell, C. M. H., M.A., M.D. Ox., F.R.C.P. (G.).
Hunt, G. H., M.A., D.M., B.Ch. Ox., F.R.C.P. (G.).
Hurst, A. F., M.D. (v. Neurology) (G.).
Kidd, P., M.A., D.M. Ox., F.R.C.P. (L.).
Lakin, C. E., M.D., B.S., F.R.C.S., F.R.C.P. (M.).
Langmead, F. S., M.D., F.R.C.P. Prof. (SM.).
Lewis, Sir Thos., C.B.E., D.Sc. Wales, M.D., F.R.C.P., F.R.S. (UM.).
MacCormac, H., C.B.E., M.B., Ch.B. Edin., F.R.C.P. (M.).
Mackenzie, H. W. G., M.A., M.D. Camb., F.R.C.P. (T.).
MacLean, H., M.D., Ch.B. Aberd., M.Sc. Liv., D.Sc. Prof. (T.).
Marshall, G., O.B.E., M.D. (G.).
Miller, C. H., C.B.E., M.A., M.D., B.Ch. Camb., F.R.C.P. (L.).
Miller, R. H., M.D., B.S., F.R.C.P. (SM.).
Mutch, N., M.A., M.D., B.Ch. Camb., F.R.C.P. (also in *Pharmacol.*) (G.).
Ogle, Cyril, M.A., M.D., B.Ch. Ox., F.R.C.P. (SG.).
Parkinson, J., M.D., B.S. (L.).
Perkins, J. J., M.A., M.B., B.Ch. Camb., F.R.C.P. (T., 24).
Phear, A. G., C.B., M.D., B.Ch., B.A. Camb., F.R.C.P. (LW.).
Poulton, E. P., M.A., M.D., B.Ch. Ox., F.R.C.P. (G.).
Poynton, F. J., M.D. (UM.).
Purves-Stewart, Sir James P. M., K.C.M.G., C.B., M.D., C.M., M.A. Edin., F.R.C.P. (W.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

Rolleston, Sir Humphry D., Bart., K.C.B., M.A., M.D., B.Ch. Camb., D.C.L. Durh., P.R.C.P. (SG.).
Rowlands, R. A., O.B.E., B.Sc., M.D., B.S. (L.).
Russell, A. E., M.D., B.S., F.R.C.P. (T.).
Ryle, J. A., M.D. (G.).
Shaw, H. B., M.D., B.S., F.R.C.P., F.R.C.S. (UM., 24).
Smith, L. A., M.D., F.R.C.P. (L.).
Stott, A. W., M.A., B.Ch. Camb. (W.).
Tidy, H. L., M.A., D.M., B.Ch. Ox., F.R.C.P. (T.).
Tooth, H. H., C.B., C.M.G., M.A., M.D. Camb., F.R.C.P. (B., 26).
Torrens, J. A., M.D., B.S., F.R.C.P. (SG.).
Tunnicliffe, F. W., M.D. (KM.).
Turner, W. A., C.B., M.D., C.M. Edin., F.R.C.P. (KM., 26).
Wall, R. C. B., D.M., B.Ch., M.A. Ox., F.R.C.P. (L., 24).
Ward, G. E. S., M.D., B.S., F.R.C.P. (M.).
Wilson, C. McM., M.D., B.S., F.R.C.P. (SM.).
Wiltshire, H. W., M.A., M.D., B.Ch. Camb., F.R.C.P. (KM.).
Woodwark, A. S., C.M.G., C.B.E., M.D., B.S., F.R.C.P. (W.).
Wynter, W. E., M.D., B.S., F.R.C.P., F.R.C.S. (M.).
Young, R. A., C.B.E., M.D., B.Sc., F.R.C.P. (M., 24).

Mental Diseases

Chambers, J., M.A., M.D., M.Ch. R.U.I. (M.).
Cole, R. H., M.D., F.R.C.P. (SM.)
Craig, Sir Maurice, C.B.E., M.A., M.D., B.Ch. Camb., F.R.C.P. (G.).
Hart, B., M.D. (UM.).
Macnamara, E. D., M.A., M.D., B.Ch. Camb., F.R.C.P. (C.).
Mapother, E., M.D., F.R.C.S. (KM) Medical Supt. at (My.).
Norman, H. J., M.B., Ch.B. Edin., D.P.H. Edin. & Glas. (W.).
Phillips, J. G. P., M.D., B.S., F.R.C.P. (Bm.).
Smith, R. P., M.D., B.S., F.R.C.P. (T.).
Stoddart, W. H. B., M.D., B.S., F.R.C.P., recogd. in Med. at (Bm.) (T.).

Midwifery, v. also Diseases of Women

Andrews, H. R., M.D., B.S., F.R.C.P. (L.).
Blacker, Sir George F., M.D., B.S., F.R.C.P., F.R.C.S. (UM.).
Bourne, A. W., B.A., M.B., B.Ch. Camb., F.R.C.S. (S.M.).
Dodd, S., M.A., M.B., B.Ch. Camb., F.R.C.S.E. (W.).
Eden, T. W., M.D. Edin., F.R.C.P., F.R.C.S.E. (C.).
Gilliatt, W., M.D., M.S., F.R.C.S. (KM.).
McIlroy, Anne L., O.B.E., M.D., B.S., D.Sc. Glas. Prof. of Obst. and Gyn. (LW.).
Smith, G. Bellingham, M.B., B.S., F.R.C.S. (G.).
Smith, G. F. D., M.A., B.M., B.Ch. Ox., F.R.C.S. (SG.).
Spencer, H. R., M.D., B.S., F.R.C.P. (UM.).
Stevens, T. G., M.D., F.R.C.S. (SM.).

Neurology

Birley, J. L., M.A., D.M., B.Ch. Ox., F.R.C.P. (T.).
Howell, C. M. H., M.A., D.M. Ox., F.R.C.P. (26).
Hurst, A. F., M.D., B.Ch., M.A. Ox., F.R.C.P. (G.).
Wilson, S. A. K., M.A., B.Sc., M.D. Edin., F.R.C.P. (KM., 26).

(B), (C), etc., (23), (24), etc , v. *Note* on p. 150.

Ophthalmology

Cargill, L. V., F.R.C.S. (KM.).
Collins, E. T., F.R.C.S. (27, C.).
Eason, H. L., C.B., C.M.G., M.D., M.S. (G.).
Fisher, J. H., M.B., B.S., F.R.C.S. (T., 27).
Goulden, C. B., M.A., M.Ch., M.D. Camb., F.R.C.S. (L.).
Greeves, R. A., M.B., B.S., B.A. R.U.I., F.R.C.S. (M.).
Grimsdale, H. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Hepburn, M. L., M.D., B.S., F.R.C.S. (LW., 27).
James, R. R., F.R.C.S. (SG.).
Jeremy, H. R., F.R.C.S., L.R.C.P. (L.).
Juler, F. A., M.B., B.Ch., M.A. Camb., F.R.C.S. (SM., 27).
Lawson, Sir Arnold, K.B.E., M.D. Brux., F.R.C.S. (M.).
Lister, Sir Wm. T., K.C.M.G., M.B., B.Ch., B.A. Camb., F.R.C.S. (L.).
Lyle, H. W., M.D., B.S., F.R.C.S. (KM.).
Moore, R. F., O.B.E., M.A., B.Ch. Camb., F.R.C.S. (B., 27).
Neame, H., M.B., Ch.B. (UM.).
Ormond, A. W., F.R.C.S. (G.).
Parsons, Sir John H., C.B.E., D.Sc., M.B., B.S., F.R.C.S., F.R.S. (UM., 27).
Paton, L. J., M.B., B.Ch., B.A. Camb., F.R.C.S. (SM., 26).
Spicer, W. T. H., M.A., M.B. Camb., F.R.C.S. (B., 27).
Whiting, M. H., M.A., M.B. Camb., F.R.C.S. (M.).

Pathology, v. also Anat.—Morb., Chem., Bact.

Andrewes, Sir Fredk. W., O.B.E., M.A., M.D., B.Ch. Ox., F.R.C.P., D.P.H. Camb., F.R.S. (recogd. in Bact.) Prof. (B.).
Boycott, A. E., M.A., B.Sc., B.Ch., D.M. Ox., F.R.S. Graham Prof. (UM.).
Daniels, C. W., B.A., M.B. Camb., F.R.C.P. (H.).
Donaldson, R., M.A., M.D., D.T.M. Edin., D.P.H., F.R.C.S. (SG.).
Dudgeon, L. S., C.M.G., C.B.E., F.R.C.P. (also in Bact.) Prof. (T.).
Fox, I., M.B., B.S. (LW.).
Goodhart, G. W., M.D. (UM.).
Hicks, J. A. B., M.D., B.S., D.P.H. (recogd. also in Bact.) (W.).
Lakin, C. E., M.D., B.S., F.R.C.P., F.R.C.S. (also in Med.) (M.).
McIntosh, J., M.D., Ch.B. Aberd. Prof. (M.).
Perry, Bt. Lt.-Col. H. M. J., L.R.C.P. and S.I. (AM.).
Stokes, A., O.B.E., M.D., B.Ch., B.A.O. Dub. Dunn Prof. (G.).
Teale, F. H., M.D., B.Sc., F.R.C.P. (UM.).
Williamson, G. S., M.B., B.Ch. Edin. (LW.).

Pathology, Experimental

Chick, Harriette, M.D. (L.).
Lazarus-Barlow, W. S., M.D., B.Ch. Camb., F.R.C.P. Prof. (M.).
Martin, C. J., C.M.G., D.Sc. Shef., D.Sc., M.B., F.R.S. (Prof. LI.).
Wright, Sir Almroth E., K.B.E., C.B., M.D., B.Ch., Sc.D. Dub., B.A. Camb., F.R.S. Prof. (SM.).

Pharmacology, v. also Med.

Hamill, P., M.A., M.D. Camb., D.Sc., F.R.C.P. (B.).
Leyton, O. F. F., M.A., M.D., B.Ch. Camb., D.Sc., F.R.C.P. (also in Med.) (L.).
Ransom, F., M.D. Edin. (LW.).
Scarborough, Eleanor M. Reader (LW.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

Woolley, V. J., M.A., M.D. Camb. (T.).

Physics

Brinkworth, J. H., M.Sc. (T.).
Hopwood, F. L., D.Sc. Prof. (B.).
Russ, S., D.Sc. Joel Prof. (M.).
Stead, G., M.A. Camb. Reader (G.).
White, W. H., M.A. Camb., B.Sc., A.R.C.S. (SM.).

Physiology

Collingwood, B. J., B.A., M.D., B.Ch. Camb. Prof. (SM.).
Cullis, Winifred C., O.B.E., D.Sc. Prof. (LW.).
Evans, C. A. Lovatt, D.Sc. Prof. (B.).
Mellanby, J., M.A., M.D. Camb. Prof. (T.).
Pembrey, M. S., M.A., M.D., B.Ch. Ox., F.R.S. Prof. (G.).
Roaf, H. E., M.D. Tor., D.Sc. Liv. Prof. (L.).
Vincent, S., D.Sc. Edin., M.D. Prof. (M.).

Protozoology

Thomson, J. G., M.A., M.B., Ch.B. Edin. (H.).
Woodcock, H. M., D.Sc. (LI.).

Surg., v. also Dis. of Child.

Adams, J. E., M.S. (T.).
Back, I., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Ball, W. G., F.R.C.S. (B.).
Ballance, Sir C. A., K.C.M.G., C.B., M.V.O., M.S., M.B., F.R.C.S. (T.).
Bankart, A. S. B., M.A., M.Ch. Camb., F.R.C.S. (Orthopædics) (M.).
Battle, W. H., F.R.C.S. (T.).
Bromley, L., M.B., M.Ch. Camb., F.R.C.S. (G.)
Bryan, C. W. G., F.R.C.S. (SM.).
Carling, E. R., M.B., B.S., F.R.C.S. (W.).
Cheatle, Sir George L., K.C.B., C.V.O., F.R.C.S. (KM.).
Choyce, C. C., C.M.G., C.B.E., B.Sc., M.D. Edin., F.R.C.S. (UM.).
Clogg, H. S., M.S., M.B., F.R.C.S. (C.).
Cope, V. Z., M.A., M.D., M.S., F.R.C.S. (SM.).
Cunning, J., M.B., B.S. Melb., F.R.C.S. (LW.).
Daniel, P. L., F.R.C.S. (C.).
Davies-Colley, R., C.M.G., M.A., M.Ch. Camb., F.R.C.S. (G.).
De Santi, P. R. W., F.R.C.S. (W.).
Dunhill, T. P., C.M.G., M.D., B.S. Melb. (B.).
Eccles, W. McA., M.S., M.B., F.R.C.S. (B.).
Edwards, A. T., M.A., M.Ch. Camb., F.R.C.S. (W.).
English, Sir Thos. C., K.C.M.G., M.B., B.S., F.R.C.S. (SG.).
Evans, A. H., O.B.E., M.D., M.S., F.R.C.S. (W.).
Everidge, J., O.B.E., F.R.C.S. (KM.).
Fagge, C. H., M.S., M.B., F.R.C.S. (G.).
Fedden, W. F., M.S., M.B., F.R.C.S. (SG.).
Fitzwilliams, D. C. L., C.M.G., M.D., Ch.M. Edin., F.R.C.S. (SM.).
Frankau, C. H. S., C.B.E., M.B., B.S., F.R.C.S. (SG.).
Fripp, Sir Alfred D., K.C.V.O., C.B., M.S., M.B., F.R.C.S. (G.).
Gask, G. E., C.M.G., F.R.C.S. Prof. (B.).
Gordon-Taylor, G., M.A. Aberd., M.S., B.Sc., F.R.C.S. (M.).
Gould, E. L. P., M.A., M.Ch., D.M. Ox. (M.).
Greene, W. H. C. (v. Anat.) (SM.)
Handley, W. S., M.D., M.S., F.R.C.S. (M.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

Howard, R. J., C.B.E., M.S., M.B., F.R.C.S. (L.).
Hughes, E. C., M.A., M.Ch. Camb., F.R.C.S. (G.).
Joll, C. A., M.B., B.Ch. Brist., M.B., M.S., B.Sc. (LW.).
Lane, J. E., F.R.C.S. (SM.).
Legg, T. P., C.M.G., M.S., M.B., F.R.C.S. (KM.).
Lett, H., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (L.).
Lewis, Emily C., M.S., M.B., F.R.C.S. (LW.).
Lindsay, E. C., B.Sc. N.Z., M.B., B.S., F.R.C.S. (L.).
Low, V. W., C.B., M.D., B.S., F.R.C.S. (SM.).
Martin, E. K., M.B., Ch.B. (UM.).
Maybury, B. C., M.B., B.S., F.R.C.S. (T.).
Milne, R., M.D., M.S., F.R.C.S. (L.).
Mitchiner, P. H., M.B., M.S., F.R.C.S. (T.).
Mullally, G. T., M.S. (W.).
Murray, J., M.B., B.Ch. Dub., F.R.C.S. (M.).
Neligan, G. E., B.M., B.Ch. Ox., F.R.C.S. (L.).
Nitch, C. A. R., M.B., M.S., F.R.C.S. (T.).
Norbury, L. E. C., M.B., B.S., F.R.C.S. (LW.).
Page, C. M., M.S., F.R.C.S. (T.).
Pannett, C. A., M.D., B.S., B.Sc., F.R.C.S. Prof. (SM.).
Pendlebury, H. S., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
Perrin, W. S., M.B., M.Ch. Camb., F.R.C.S. (L.).
Power, Sir d'Arcy, K.B.E., M.A., M.B. Ox., F.R.C.S. (B.).
Rawling, L. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Rigby, Sir Hugh M., K.C.V.O., M.B., M.S., F.R.C.S. (L.).
Roberts, J. E. H., O.B.E., M.B., B.S., F.R.C.S. (B.).
Romanis, W. H. C., M.A., M.B., M.Ch. Camb., F.R.C.S. (T.).
Rowlands, R. P., O.B.E., M.B., M.S., F.R.C.S. (G.).
Sargent, P. W. G., C.M.G., M.A., M.B., B.Ch. Camb., F.R.C.S. (T.).
Shattock, C. E., M.D., M.S., F.R.C.S. (LW.).
Sherren, J., C.B.E., F.R.C.S. (L.).
Slesinger, E. G., O.B.E., B.Sc., M.S., F.R.C.S. (G.).
Smith, S. M., C.B., M.B., B.S., F.R.C.S. (SM.).
Souttar, H. S., C.B.E., M.A., B.M., M.Ch. Ox., F.R.C.S. (L.).
Spencer, W. G., O.B.E., M.S., M.B., F.R.C.S. (W.).
Steward, F. J., M.S., M.B., F.R.C.S. (G.).
Thompson, A. R., M.B., Ch.M. Manc., F.R.C.S. (G.).
Trotter, W. B. L., M.D., M.S., F.R.C.S. (UM.).
Turner, P., M.S., M.B., B.Sc., F.R.C.S. (G.).
Turner, W., M.S., M.B., F.R.C.S. (W.).
Vick, R. M., O.B.E., M.A., M.Ch., F.R.C.S. (B.).
Walker, Sir J. W. Thomson, C.M. Edin., F.R.C.S. (KM.).
Wallace, Sir Cuthbert S., K.C.M.G., C.B., M.B., F.R.C.S. (T.).
Walton, A. J., B.Sc., M.B., M.S., F.R.C.S. (L.).
Waring, Sir Holburt J., C.B.E., M.B., M.S., B.Sc., F.R.C.S. (B.).
Warwick, W. T., M.B., Ch.B. (M.).
Waterhouse, Sir Herbt. F., M.D. Edin., F.R.C.S. (C.).
Watson, Sir Chas. G., K.B.E., C.M.G., F.R.C.S. (B.).
Webb, C. H. S., M.S., M.B., F.R.C.S. (M.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

Webb-Johnson, A. E., C.B.E., M.B., Ch.B. Manc., F.R.C.S. (M.).
West, Lt.-Col. J. W., M.B., B.Ch., B.A.O., N.U.I., M.S. Belf., D.P.H.I. (Mily. S.) (AM.).
Williams, G. E. O., M.D., M.S., F.R.C.S. (UM.).
Wilson, H. W., M.B., M.S., F.R.C.S. (B.).

Tropical Hygiene
Simpson, Prof. Sir Wm. J. R. (v. Hyg.) (H.).

Trop. Med.
Low, G. C., M.A. St. And., M.D., C.M. Edin. (H.).
Newham, H. B. G., C.M.G., M.D., D.P.H., D.T.M. and H. Camb. (H.).

Trop. Surg.
Cantlie, Sir James, K.B.E., M.A., M.B., C.M. Aberd., F.R.C.S., D.P.H. (H.).

Venereal Diseases
Harrison, Col. L. W., M.B., Ch.B. Glas. (T.).

Zoology, v. also Protozoology
Evans, Thomas James, M.A. Ox. (G.).

Dental Science

Dental Anat. and Physiol.
Hopson, M. F., L.D.S. (D. Anat.) (G.).
Underwood, A. B. G., M.B., B.S., L.D.S. (UM.).

Dental Materia Medica
Doubleday, F. N., L.D.S. (G.).
Bull, F. B., L.D.S. (G.).

Dental Mechanics
Chapman, H., L.D.S. (*Orthodontics*) (L.).
Gabell, D. P., L.R.C.P., M.R.C.S., L.D.S. (D.).
Olver, S. H., L.D.S. (UM.).

Dental Prosthetics
Fry, W. K., L.D.S. (G.).

Dental Surgery
Bennett, N. G., M.A., M.B., B.Ch. Camb., L.D.S. (SG.)
Buxton, J. L. D., L.D.S. (UM.).
Clapham, H. D., M.R.C.S., L.R.C.P., L.D.S. (L.).
Colyer, Sir James F., K.B.E., L.R.C.P., F.R.C.S., L.D.S. (C.).
Dolamore, W. H., L.R.C.P., M.R.C.S., L.D.S. (SM., D.).
Pearce, F. J., L.D.S., D.D.S. (G.)
Sprawson, E. C., M.R.C.S., L.R.C.P., L.D.S. (L.).
Turner, H. W., M.R.C.S., L.D.S. (M.).
Turner, J. G., F.R.C.S., L.D.S. (D.).
Wallis, C. E., L.R.C.P., M.R.C.S., L.D.S. (KM.).

(B), (C), etc., (23), (24), etc., v. *Note* on p. 150.

GENERAL INFORMATION

ROYAL ARMY MEDICAL COLLEGE, Grosvenor Rd., S.W.1. Commandant—Col. C. W. Mainprise, D.S.O.

Opened 1902; under Army Med. Advisory Board; open only to fully qualified medical men commissioned in or probationers for the R.A.M.C. or I.M.S. Profs. of Path. and Bact., Hygiene, Trop. Med., and Military Surgery. Special teaching in Physical Training and at Mily. Hospl. (81 beds), Syphilology. Qu. Alexandra Mily. Hospl. (234 beds) forms part of the Coll. Students (average, about 70) are probationers and Captains, R.A.M.C., taking 5 mos.' course for promotion. ***Residential*** **accommodation for 70.**

ST. BARTHOLOMEW'S HOSPITAL, Medical College, West Smithfield, E.C.1. Dean—T. W. Shore, O.B.E., M.D., B.Sc. Sub-Dean—W. Girling Ball, F.R.C.S.

Founded 1662. Appointed and Recognized Teachers—46 (v. *supra*); *Library*: the largest of the kind in London. *Museum*: 9400 specimens, 2000 casts and drawings. *Laboratories*, with facilities for research in Path., Pharmacol., etc. 757 beds. *Fees*: 220 gs. for whole curriculum; from 1st M.B., 190 gs. *Scholarships*: total annual value over £1000; two for Research in Path. (£115) and Surg. (£105) open to graduates of any Univ. educated at Bart's. Fellowship £600, open to graduates of any Univ. for research in Lymphadenoma. *Residential College* within Hospl. grounds for 26 students (Warden, R. M. Vick, O.B.E., M.Ch., F.R.C.S.). Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

Number of Internal Students: 400 (men).

BETHLEM ROYAL HOSPITAL, St. George's Rd., S.E.1. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for Dip.Psy. are held annually. Daily clinical instruction classes. Pathological Laboratory. X-Ray apparatus. Out-patients dept. at 52 Lambeth Rd., S.E.1. (Tues. and Fri. aftn., Thurs. morn.). Convalescent Home at Witley, Surrey.

CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2. Dean—W. J. Fenton, M.D., F.R.C.P. Founded 1821. Appointed and Recognized Teachers (v. *supra*)—14. *Fees*: entrance, 10 gs.; annual, 40 gs. Several scholarships, etc. Women students are admitted. *Number of Students*: 175.

ROYAL DENTAL HOSPITAL AND LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy.—W. J. Wadham.

Founded 1858. Open to both sexes. Recognized Teachers—3 (v. *supra*); others—30. Library, Museum, and Laboratories. X-Ray Dept. *Fees*: £70 for 2 yrs.' Hospl. practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £200. *Number of Students* (1923–24): 312.

GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1. Dean—Prof. T. B. Johnston, M.B., Ch.B. Clerk to the Dean—S. H. Croucher.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—43 (v. *supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 626 beds. Fully equipped Dental Dept. with Lab. *Fees*: entrance, £28; annual, £49. Foundations in aid of Research: Lect'ship in Path., approx. £1300 p.a.; in Clin. Chem., £250; Trav. Studentship, £150; Studentship in Mat. Med., £40; in Path., £250; Dem'rship in Clin. Chem., £150; in Path., £320; Med. Research Fellowship, etc. Numerous prizes and entrance scholps. Resident *appointments*—58 annually. *Residential* accommodation for 35 students. Furnished rooms, 19s. to 36s. *Students' publication*: *G.H. Gazette*. Women students are not eligible for admission. *Number of Students*: about 850.

HYGIENE AND TROPICAL MEDICINE, LONDON SCHOOL OF. Director—Dr. Andrew Balfour, C. B., C.M.G., D.P.H. Secy.—R. W. Harris. Temporary address—Institute of Historical Research, Malet St., W.C.1.

This School, constituted by Royal Charter on April 1, 1924, took over on Aug. 1, 1924, the London School of Tropical Medicine, formerly under the control of the Seamen's Hospital Society. It is a recognized School in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school is being built and equipped with a sum of $2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining the School when the new building is completed. It will include the following departments: (1) Applied Physiology and Principles of Hygiene; (2) Chemistry and Bio-Chemistry; (3) Immunology and Bacteriology; (4) Medical Zoology; (5) Epidemiology and Statistics; (6) the Practice of Preventive Medicine, General Sanitation, and Administration; (7) Tropical Medicine (and Hygiene). It will provide for the training and equipment of public health officers, and for research in the various branches of preventive medicine.

Division of Tropical Medicine and Hygiene. The work of the Tropical Division of the School is carried on at present at Endsleigh Gardens, Euston Road, N.W.1. Appointed and Recognized Teachers—9 (v. *supra*). Library, Museum, and up-to-date Laboratories with accommodation for 100. Special Depts. for Entom., Helminth., Proto-zool. In the various Hospls. of the Society are always numerous cases of Trop. Diseases. The funds available for encouraging research include the Lord Milner Research Fund, the Wandsworth Bequest, and the E. J. Stanley Memorial. Many Trop. Research expeditions have been equipped and maintained by the School. Students must be qualified Med. practitioners or in 5th yr. of Med. studies. There are 3 sessions of 12 weeks each. An examn. is held at end of each term. Trop. Med. courses suitable for candidates for the M.D. in Trop. Med., Camb. diploma in Trop. Med. and Hyg., and diploma in Dis., etc., of Tropics of Roy. Colls. Certificates granted. *Fees*: 20 gs. for 12 weeks. *Number of Students* about 60 per session.

KING'S COLLEGE HOSPITAL, Medical School, Denmark Hill, S.E.5. Dean—H. Willoughby Lyle, M.D., B.S., F.R.C.S. Secy.—S. C. Ranner, M.A. Women students are admitted.

Appointed and Recognized Teachers—25 (v. *supra*); others—18. *Fees*: entrance, 10 gs.; complete courses for Med. Degree and Diploma examns., 190 gs.; final course only, 93 gs. *Scholarships*: 2 of £80 for Ox. and Camb. students; 1 of £50 for Univ. students from Epsom College; 1 of £50 at entrance (Science) and 2 of £50 for students who have passed in Biol., Chem., and Physics and propose to graduate in any British Univ. *Hostel* with accommodation for 80 men students. *Students' Publication*: *K.C.H. Gazette*. *Undergraduate Students* (Medical and Dental): 279.

LONDON HOSPITAL, Medical College, Turner St., Mile End, E.1. Dean—Prof. W. Wright, M.B., D.Sc., F.R.C.S. Secy.—E. J. Burdon. Women students are not eligible for admission.

Founded 1781. Appointed and Recognized Teachers—43 (v. *supra*); others—65. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of Path. Inst. for Advanced Research. 950 beds. *Fees*: entrance, 20 gs.; annual, 40 gs. 34 scholps. and prizes. Hostel for 25 students. 150

appointments available for students. *Student Publication*: *L.H. Gazette.* *Number of Internal Students*: 210.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. C. J. Martin, C.M.G., M.B., D.Sc., F.R.S.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to Research students of both sexes, usually without fee. Appointed and Recognized Teachers—6 (v. *supra*); 10 other members of scientific staff. *Number of Students*: 20.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Dame L. B. Aldrich-Blake, D.B.E., M.D., M.S. Warden and Secy.—Miss Brooks.

Founded 1874. Appointed and Recognized Teachers—25 (v. *supra*); others—32. 240 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. Arrangements for Dental students. *Fees*: Composition, for full Med. course, £240, in annual instalments, £35, £60, £60, £50, £35. Students' chambers provided for 50 students. *Student Publication*: *L.S.M. Gazette.*

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent—E. Mapother, M.D., F.R.C.S. Director of Pathological Department—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis, of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the London County Mental Hospitals (containing 20,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 157 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, bio-chemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—A. E. Webb-Johnson, C.B.E., F.R.C.S. School Secy.—R. A. Foley. Secy to Council—W. Kewley.

Founded 1835. Appointed and Recognized Teachers—36 (v. *supra*); others—13. Over 450 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path. with Museum and Labs., *Cancer Research* Labs. (Prof. S. Russ), new Bio-Chem. Labs. Scholarships, etc., worth £1000 p.a., include 3 of £150 for *Cancer Research*. *Fees*: Entrance, 15 gs.; annual, £42. Women students not admitted. *Number of Students*: 300, and 70 Dental students.

NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE, Greenwich, S.E.10. Director of Med. Studies—Surg.-Comdr. T. B. Shaw, M.B., Ch.B. Edin., R.N.

Opened 1912. Courses (twice a year) in General and Naval Hygiene, Clin. Path., Micro-Biology, for acting Surg.-Lieuts. (2 mos., followed by 4 mos. at

Haslar Hospl.); Surg.-Lieuts. (5 mos.) for promotion; for Senior Med. Officers (3 mos.). Number of officers under instruction (average)—80 a year.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1. Dean—J A. Torrens, M.D., F.R.C.P.

Founded 1752. Appointed and Recognized Teachers—20 (v. *supra*); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £170 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission. *Number of Students*: 90.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—C. M. Wilson, M.D., F.R.C.P. Secy.—B. E. Matthews, B.A. *Students' Publication*: *St. M.H. Gazette.*

Founded 1852. Appointed and Recognized Teachers—34 (v. *supra*); others—20. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; subsequent yrs., 40 gs. p.a. *Scholarships*: £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920–21. *Number of Students*: part-time, 79; full-time, 308.

ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S.E.1. Dean—Sir Cuthbert S. Wallace, K.C.M.G., C.B. Medical Secretary—A. Elliot, M.A., M.D.

Founded in 16th century. Recognized Teachers—44 (v. *supra*); others—36. Path. Dept. includes Museum with 3000 specimens. Large Laboratories for teaching and research. Hospl. beds, 632. *Fees*: Tuition per annum, £50. Hostel accommodation for 15. Women students are not eligible for admission. *Number of Students*: 509.

TROPICAL MEDICINE, LONDON SCHOOL OF, v. *supra*—Hygiene.

UNIVERSITY COLLEGE HOSPITAL, Medical School, Gower St., W.C.1. Dean—Sir George Blacker, C.B.E., M.D., F.R.C.P., F.R.C.S. Open to both sexes.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. Recognized Teachers—24 (v. *supra*); others 84. *Library*, 13,500 vols. The *Charles Graham Laboratories*, under the direction of Prof. A. E. Boycott, were established in 1902 for research in Path. A limited number of qualified students are admitted as Lab. workers, to whom grants may be made. *Fees*: course for Final M.B., B.S., or 3rd examn. of Conjoint Board—112 gs. *Scholarships, etc.*: annual value, £1250. *Residence* for Maternity students. *Publications*: *Prospectus, Transactions of Research Dept., Magazine* (Students'). *Number of Students*, 254.

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ. College Hospl. in 1914.

WESTMINSTER HOSPITAL, Medical School, 12 Caxton St., Westminster, S.W.1. Dean—A. S. Woodwark, C.M.G., C.B.E., M.D., F.R.C.P. Secy.—Major J. Burke. Women students are admitted.

Founded 1834. Recognized Teachers—21 (v. *supra*); others—12. *Fees*: 35 gs. p.a. and 10 gs. entrance. *Number of Students*: 76.

FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs. and Teachers of Univ. and King's Colleges and of the London School of Economics dividing the work among them. See also staff lists of Univ. College (History), King's College (History), Birkbeck College, School of Economics, and Other Institutions (p. 166).

PROFESSORS AND TEACHERS, January 1, 1925

Ball, W. Valentine, O.B.E., M.A. Camb.* (Railway L.) (K. and E.).

Bolland, W. C., M.A. Camb. (Legal History) (U.).

de Montmorency, J. E. G., M.A., LL.B. Camb.* Quain Prof. of Comparative L. (U.).

Gattie, V. R. M., C.B.E., M.A. Ox. (Criminal L) (E.).

Griffith, W. Hussey, M.A. Camb.* (Common L.) (K.).

Gutteridge, H. C., M.A., LL.B. Camb.* Cassel Prof. of Comml. and Indust. L. (E.).

Hearnshaw, Prof. F. J. C., LL.M. Camb., LL.D. Dub. (History) (K.).

Hibbert, W. N., LL.D.* (Jurispr. & Roman L.) (K.).

Humphries, S., B.A., LL.B. Camb. (Comml. and Merc. L.) (4).

Hurst, G. H. J., M.A., LL.M. Camb.* Reader in English L. (U.) and Lectr. in Conveyancing (E.).

Jenks, E., M.A. Ox. and Camb., D.C.L. Ox., LL.B. Prof. of English L. (E.).

Mackay, H. J. H., M.A., LL.B. Glas.* (English L.) (K.).

McNair, A. D., M.A., LL.M. Camb.* (Internat. L. and Common L.) (E.).

Morgan, J. H., B.A. Ox., M.A.* Prof. of Constitl. L. (U., E.) and Lectr. in Colonial Const. L. (U.).

Murison, A. F., M.A., LL.D. Aberd.,* K.C. (Jurispr. and Roman L.) (U.).

Pollard, Prof. A. F., M.A. Ox., Litt.D. Manc. (History) (U.).

Roxburgh, R. F., B.A. Camb.* (Comml. and Indust. L.) (E.).

Sabonadière, A. (Hindu and Mohammedan L.) (O.).

Slesser, Sir Henry H.,* K.C. (Indust. L.) (E.).

* Barrister-at-Law.

For keys to symbols, (K.), etc., see p. 99 ; (4), p. 165.

OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

(1) GOLDSMITHS' COLLEGE.
(2) BATTERSEA POLYTECHNIC.
(4) CITY OF LONDON COLL.
(5) FINSBURY TECHNICAL COLL.
(6) JEWS' COLL.
(7) NORTHAMPTON POLYT. INST.
(8) NORTHERN POLYT. INST.
(9) ROYAL VETERINARY COLL.
(10) SIR JOHN CASS TECH. INST.
(11) CHELSEA POLYT.
(12) WEST HAM MUNICIPAL COLL.
(13) WOOLWICH POLYTECHNIC.
(14) MARIA GREY TRAINING COLL.
(15) ST. MARY'S COLL., PADDINGTON.
(16) BOROUGH ROAD COLL., ISLEWORTH.
(18) ROTHAMSTED EXPERIMENTAL STATION.
(19) ROYAL ACADEMY OF MUSIC.
(20) ROYAL COLL. OF MUSIC.
(21) TRINITY COLL. OF MUSIC.
(24) HOSPL. FOR CONSUMPTION.
(25) HOSPL. FOR SICK CHILDREN.
(26) NAT. HOSPL. FOR PARALYSED AND EPILEPTIC.
(27) ROYAL LOND. OPHTHALMIC HOSPL.
(28) SCH. OF PHARMACY.

Incorporated in the Univ.

NAMES OF RECOGNIZED TEACHERS, January 1, 1925

Note.—In the following list the names of the institutions are indicated by the numerals—(1), (2), etc., as above. Teachers to whom only probationary recognition has been granted are not included in the list.

Agriculture
Keen, B. A., D.Sc. (Physics applied to A.) (18).

Art (Fine Art)
Marriott, F., A.R.C.A., A.R.E. (1).

Biology, v. *supra*, Medical Schools' Recognized Teachers

Botany
Drabble, F., D.Sc. Lond. and Sheff., A.R.C.S., F.L.S. (8).
Wallis, T. E., B.Sc., F.I.C. (28).
Lacey, H. B., F.L.S. (11).

Chemistry
Arnall, F., M.Sc. (11).
Barnett, E. de B., B.Sc. (10).
Clough, G. W., D.Sc. Birm. (9).
Dean, G., M.A. Camb. (12).
Drakeley, T. J., Ph.D., M.Sc., F.C.S., A.I.C. (8).
Field, S., A.R.C.S. (Applied C.) (7).
Keane, C. A., D.Sc. Manc., Ph.D. Erl., F.I.C. (10).
Kenyon, J., D.Sc., F.I.C. (2).
Lowe, F. H., M.Sc. Manc. (11).
Melland, G., M.Sc. Manc., A.R.S.M., F.I.C. (13).

Pickard, R. H., B.Sc. Birm., Ph.D. Munich, D.Sc., F.R.S. (2).
Sand, H. J. S., Ph.D. Zür., D.Sc. Birm. (10).
Smith, F. W., B.Sc. (8).
Streatfeild, F. H. (12).
Thorne, P. C. L., M.A. Camb. (10).
White, J. L., D.Sc. Durh. (2).

Chemistry, Organic
Crocker, J. C., M.A. Camb., D.Sc., F.C.S. (11).
Richardson, D. H., M.Sc. (8).

Chemistry, Physical
Butler, R. R., B.Sc. (7).

Classics
Crump, Mary, M.A. (Latin) (1).

Education, v. also Music
Brock, F. H. C., M.A. (1).
Graveson, Caroline C., B.A. (1).
Johnston, Katharine L., M.A. Sheff., T.D. Camb., B.A. (14).
Meiklejohn, Grace I. W., M.A. Edin. (14).
Powell, Helena L. (15).
Raymont, T., M.A. (1).
Smith, Phyllis W., M.A. (14).
Steppat, Mrs. M. A. A., M.A. Durh., M.A. (14).
Wimms, J. H., M.A. Wales, B.Sc. (1).

Engineering, Civil
Curnock, W. E. M., M.Sc. (Eng.) Manc., B.Eng. Liv., A.M.I.E.E. (Lectr. in Civ. and Mech. E.) (2).
Hamilton, K. W., B.Sc. (Eng.) (2).

Engineering, Electrical
Baillie, T. C., D.Sc., M.A. Edin., A.M.I.E.E. (12).
Boraston, C. A., B.Sc. (Eng.) Liv. (7).
Bridger, W., B.Sc. (Eng.) (12).
Burgess, Alfred F., B.Sc. (Eng.) (7).
Catterson-Smith, J. K., M.I.E.E. (5).
Dover, A. T., A.M.I.E.E. (2).
Dowse, C. M., B.Sc. (Eng.) (7).
Eccles, W. H., D.Sc., F.R.S. (5).
Hill, H., B.Sc. (Eng.) (7).
Howgrave-Graham, R. P. (recognized also in Applied Physics) (7).
Jolley, A. C. (7).
Spencer, W. G., M.Sc. (Tech.) Manc., A.M.I.E.E. (13).

Engineering, Mechanical, v. also E., Civil
Ashworth, M. H., B.Sc. Manc. (13).
Davies, V. C., B.Sc., A.M.I.Mech.E. (2).
Dumbrill, W. E., B.Sc. (Fluids) (7).
Edmonds, H. M., B.Sc. (Eng.) (2).
Frier, J. D. (Fluids) (7).
Larard, C. E., M.I.Mech.E., M.I.C.E. (7).
Richardson, D. (7).
Scoble, W. A., M.B.E., D.Sc. (Eng.), M.I.Mech.E., A.M.I.C.E. (13).
Shaw, J. B., A.R.C.S. (2).
Watson, A., B.Sc. (2).

Engineering, Mech., and Surveying
Duncan, J., M.I.Mech.E. (12).
Gladwyn, A. E., B.Sc. (Eng.), A.M.I.Mech.E. (12).
Parker, W. E., B.Sc. (Eng.) Manc. (7).

Geology
Brammall, A., M.Sc. (8).
Maslen, A. J., F.G.S. (11).

History
Dymond, Dorothy, M.A. (1).

Law, Commercial and Mercantile
Humphries, S., B.A., LL.B. Camb. (4).

Mathematics
Bickley, W. G., M.Sc. (2).
Bryant, R., B.A., D.Sc. (4).
Church, A. E. R., M.A., B.Sc. (10).

Clay, R. S., B.A. Camb., D.Sc. (Maths. and *Physics*) (8).
Curzon, H. E. J., M.A. Camb., D.Sc. (1).
Graham, J., B.E., B.A. R.U.I. (5).
Harvey, F. W., M.A. R.U.I., B.Sc. (2).
Lister, J., A.R.C.S. (11).
Littlejohn, E. S., M.Sc. Manc. (12).
Miller, T. H., M.A., D.Sc. Glas. (16).
Rhind, A., B.Sc., A.R.C.S. (8).
Salmon, W. H., M.A. Camb., B.Sc. (12).
Saxelby, F. M., M.Sc. Manc., B.A. (2).
Smith, R. T., B.A. Camb. (13).
Turner, G. C., B.Sc. (7).

Medicine and Surgery, v. *infra*

Metallurgy
Naish, W. A., A.R.S.M., M.I.M.M., A.I.C. (11).

Music
Allen, Sir H. P., Mus.D., M.A. Ox., F.R.C.M. (20).
Corder, F., F.R.A.M. (19).
Daymond, Emily R., A.R.C.M. (20).
Dunhill, T. F., A.R.C.M. (20).
Greenish, A. J., Mus.D. Camb. (19).
Horner, E. F., D.Mus. Durh., F.R.C.O. (21).
Macpherson, S., F.R.A.M. (19).
Richards, H. W., Mus.D. Durh., F.R.C.O. (19).
Salsbury, Janet, Mus.D. Durh., L.R.A.M., F.R.C.O. (21).
Waddington, S. P. (20).
Warriner, J., Mus.D. Dub. (also in *Pedag.* as applied to Music) (21).
Wetton, H. D., D.Mus. Durh., F.R.C.O. (2).
Wharton-Wells, H., B.Mus. Ox. and Durh., F.R.C.O., L.R.A.M. (also in *Pedag.* as applied to Music) (11).
Wood, C., M.A., Mus.D. Camb., LL.D. Leeds (20).

Pedagogy, v. Education, Music

Physics, v. also Maths.
Charlesworth, J., M.Sc. Manc. (8).
Clarke, F. C., B.Sc., A.M.I.E.E. (12).
Eccles, W. H., D.Sc., F.R.S. (Physics & Elec. Engin.) (5).
Emsley, H. H. (7).
Evans, A. E., B.Sc. (2).
Humphry, R. H. (10).
Lownds, L., Ph.D. Berl., B.Sc. (11).
Marsh, S., B.Sc. Wales, Ph.D. Gött. (2).
Nicol, J., B.A. Camb., B.Sc. (8).
Oschwald, U. A., B.A. (11).
Owen, D., B.A. Camb., D.Sc. (10).
Polson, W., M.A., B.Sc. Aberd. (12).
Skinner, S., M.A. Camb. (11).
Starling, S. G., B.Sc., A.R.C.S., A.I.E.E. (12).
Tarrant, A. G., B.Sc., A.R.C.S. (11).
Vinycomb, T. B., M.A. R.U.I. (13).

Physiology
Symes, W. L., M.R.C.S. (9).

Semitic Languages
Büchler, A., Ph.D. Leip. (6).
Daiches, S., Ph.D. Leip. (6).
Hirschfeld, H., Ph.D. Stras. (S. (Epig. and Hebrew and S.) (6).
Marmorstein, A., Ph.D. Heid. (Bible and Rabbinics) (6).

Veterinary Hygiene
Wooldridge, G. H., F.R.V.S. (9).

Veterinary Pathology and Bacteriology
McFadyean, Sir John, LL.D., M.B., C.M., B.Sc. Edin., M.R.C.V.S. Prof. (9).

Zoology
Cunningham, J. T., M.A. Ox., F.Z.S. (8).

Leigh-Sharpe, W. H., B.Sc. (11).

Medicine

Bacteriology

Nabarro, D. N., B.Sc., M.D., D.P.H., F.R.C.P. (25).

Diseases of Children *

Barrington-Ward, L. E., M.Ch. Edin., F.R.C.S. (25).
Colman, W. S., M.D., F.R.C.P. (25).
Frew, R. S., M.D. Edin. (25).
Hutchison, R., M.D., C.M. Edin., F.R.C.P. (25).
Lane, Sir W. A., Bart., C.B., M.S., M.B., F.R.C.S. (25).

Laryngology, Oto-Rhino- *

Dundas-Grant, Sir J., K.B.E., M.D., C.M., M.A. Edin., F.R.C.S. (24).

Medicine *

Holmes, G. M., C.M.G., C.B.E., M.D., B.Ch., B.A.O., B.A. Dub., F.R.C.P. (Med. and *Ophthalmology*) (26).
Russell, J. S. R., M.D., C.M. Edin., F.R.C.P. Prof. (26).
Stewart, T. G., M.D., Ch.B. Edin., F.R.C.P. (26).
Taylor, J., C.B.E., M.A., M.D. Edin., F.R.C.P. (26).

Neurology *

Howell, C. M. H., M.A., D.M. Ox., F.R.C.P. (26).

Ophthalmology, v. also Med. *

Flemming, P. M.D., B.S., F.R.C.S. (27).
Hudson, A. C., M.A., M.D., B.Ch. Camb., F.R.C.S. (27).
Lang, B. T., B.A. Camb., F.R.C.S. (27).
Worth, C. A., F.R.C.S. (27).

Pathology

Inman, A. C., M.A., M.B., B.Ch. Ox. (24).

Pharmaceutics

Greenish, H. G., F.I.C., F.L.S., D. del'U. Paris Prof. (28).

Surgery *

Addison, O. L., M.B., B.S., F.R.C.S. (25).
Armour, D. J., C.M.G., M.B., B.A. Tor., F.R.C.S. (26).
Gray, H. T., M.A., M.Ch. Camb., F.R.C.S. (25).
Waugh, G. E., B.A. Camb., M.D., B.S., F.R.C.S. (25).

* V. also Medical Schools' Teachers, p. 150.

GENERAL INFORMATION

[(*a*) Principal. (*b*) Subjects in which recognized. (*c*) Number of students.]

1. UNIVERSITY OF LONDON, GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—T. Raymont, M.A. Vice-P'pals. of Training Dept.—F. H. C. Brock, M.A., and Miss C. C. Graveson, B.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—9 (v. *supra*)—Art, Classics, Educn., Engl., Hist., Maths.; others—62.

Training Department. Recognized by Bd. of Educn. as a Training Coll. (Elem.). Ordinary course—2 yrs., or for B.A. (Pass) or B.Sc. (General) degree —3 yrs. Lectrs. and Instrs.—33. *Annual fee* for tuition with mid-day meal: £21. Hostels provide accommodation for nearly all the women and many men students.

School of Art (Day and Evening). Headmaster and 8 Assts. *Fees*: Day, £5 to £15; Evening, 10s. to 30s., per session.

Engineering and Building Dept. (Evening). Carried on at expense of L.C.C. and only temporarily retained at the Coll. Courses: College Certif. and Diploma; C.G.I. examns.; Engineering Degree (5 yrs.).

2. BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (*a*) R. H. Pickard, D.Sc., F.R.S. (*b*) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (*c*) 2877.

4. CITY OF LONDON COLLEGE, White St., Moorfields, E.C.2. (*a*) S. Humphries, B.A., LL.B. (*b*) Law (Comml. and Merc.), Maths. (*c*) Day, 314; Evg., 2265.

5. FINSBURY TECHNICAL COLLEGE, Leonard St., Finsbury, E.C.2. *Dean*—A. J. Hale, B.Sc., F.I.C. (*b*) Elec. Engin., Maths., Physics. (*c*) Day, whole-time, 77.

6. JEWS' COLLEGE, Queen Sq. House, Guilford St., W.C.1. (*a*) A. Büchler, Ph.D. (*b*) Hebrew, Semitics. (*c*) 24.

7. NORTHAMPTON POLYTECHNIC INSTITUTE, St. John St., E.C.1. (*a*) S. C. Laws, M.A., M.Sc. (*b*) Engin. (Elec., Civil, Mech.), Maths., Chem., Physics, Surv. (*c*) 2063.

8. NORTHERN POLYTECHNIC INSTITUTE, Holloway Rd., N.7. (*a*) R. S. Clay, D.Sc., B.A. (*b*) Bot., Chem., Geol., Maths., Physics. (*c*) 2620.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (*a*) Sir John McFadyean, M.B., C.M., B.Sc., LL.D., M.R.C.V.S. (*b*) Biol., Chem., Vet. Anat., Vet. Hyg., Vet. Path. and Bact., Vet. Physiol. (*c*) 127.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (*a*) C. A. Keane, D.Sc., Ph.D., F.I.C. (*b*) Chem., Maths., Physics. (*c*) 1000.

11. CHELSEA POLYTECHNIC, Manresa Rd., Chelsea, S.W.3. (*a*)

S. Skinner, M.A. (*b*) Bot., Chem., Geol., Maths., Metall., Music, Physics, Zool. (*c*) Day, 782; Evg., 4233.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (*a*) T. C. Baillie, M.A., D.Sc. (*b*) Chem., Engin. (Civ., Elec., Mech., Maths., Physics. (*c*) Day, 310; Evg., 1420.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (*a*) A. F. Hogg, M.A., F.C.S. (*b*) Chem., Engin. (E., M.), Maths., Phys. (*c*) 900.

14 MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (*a*) Miss K. L. Johnston, M.A. (*b*) Educn. (*c*) 147.

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W.2. (*a*) Miss H. L. Powell. (*b*) Pedagogy. (*c*) 88, including 52 Froebel students.

16. BOROUGH ROAD COLLEGE, Spring Grove, Isleworth. (*a*) T. H. Miller, M.A., D.Sc. (*b*) Maths. (*c*) Resident, 139; non-resident, 3.

18. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts. *Director*—Sir John Russell, D.Sc., F.R.S. (*b*) Agricultural Science. (*c*) 5. v. Appendix IV.

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (*a*) J. B. McEwen, M.A., F.R.A.M. (*b*) Music. (*c*) 793.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, S.W.7. *Director*—Prof. Sir H. P. Allen, M.A., Mus.D., F.R.C.M. (*b*) Music. (*c*) 700.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. *President*—Rt. Hon. Earl of Shaftesbury, K.P., G.C.V.O. (*a*) *Director of Studies*—J. C. Bridge, M.A., D.Mus. (*b*) Educn. (Ped. as applied to Music), Theoretical M. subjects, (*c*) 750.

24. BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. *Dean*—L. S. Burrell, M.A., M.D.; *Sub-Dean*—A. C. Inman, M.A., M.B. (*b*) Med.

25. HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. *Dean*—Oswald L. Addison, F.R.C.S. (*b*) Bact., Dis. of Child., Surg. (*c*) 270.

26. NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC, Queen Sq., W.C.1. *Dean*—J. G. Greenfield, B.Sc., M.D. (*b*) Med., Neurology, Ophth., Oto-Rhino-Laryng., Surg. (*c*) 264.

27. ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C.1. *Dean*—M. L. Hepburn, M.D., B.S., F.R.C.S. (*b*) Ophth. (*c*) 126.

28. SCHOOL OF PHARMACY OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Sq., W.C.1. *Dean*—Prof. H. G. Greenish, D. ès Sc., F.I.C. (*b*) Pharmaceutics; Botany, Chemistry. (*c*) 95.

VICTORIA UNIVERSITY OF MANCHESTER

VISITOR—THE KING.

CHANCELLOR—Rt. Hon. EARL OF CRAWFORD AND BALCARRES, K.T., LL.D., F.R.I.B.A.

VICE-CHANCELLOR—Sir HENRY A. MIERS, M.A., D.Sc., LL.D., Ph.D., F.R.S.

SENIOR PRO-VICE-CHANCELLOR—EDWARD FIDDES, M.A.

PRO-VICE-CHANCELLOR—Prof. F. E. WEISS, D.Sc., F.R.S.

CHAIRMAN OF THE COUNCIL—A. H. WORTHINGTON, B.A.

TREASURER—E. A. KNIGHT.

CHAIRMAN OF CONVOCATION—H. P. TURNER, M.A., LL.M.

INTERNAL REGISTRAR—NORMAN SMITH, D.Sc.

EXTERNAL REGISTRAR—H. P. TURNER, M.A., LL.M.

DIRECTOR FOR WOMEN STUDENTS—PHOEBE SHEAVYN, M.A., D.Lit.

TUTOR AND SECRETARY, FACULTY OF ARTS—J. A. PETCH, M.A.; OF SCIENCE—J. E. MYERS, O.B.E., D.Sc.; OF MEDICINE—W. H. WOOD, B.Sc., M.D.

BURSAR—S. CHAFFERS, M.A.

LIBRARIAN—C. W. E. LEIGH, M.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Accounting [Lectr.
Ferguson, H. S., M.Com., F.C.A.
Wilkinson, R. H. E., F.C.A. Asst.

Agricultural Botany [Sen. Lectr.
Smith, A. E. H., B.Sc. Edin.

Agricultural Entomology
Smith, K. M., M.Sc., A.R.C.S. Sen. Lectr.

Anatomy
Stopford, J. S. B., M.D. Prof.
Wood, W. H., B.Sc., M.D. Lectr.
Sellars, Ruth, B.Sc. Edin. Lectr.
Stewart, D., M.R.C.S., L.R.C.P. Asst. Lectr.

Anatomy, Applied
Morley, J., M.B., Ch.M., F.R.C.S. Lectr.
Holmes, A. H., M.D. Lectr.
Jefferson, G., M.S., F.R.C.S.
Morison, J. M. W., M.D., C.M. Glas. Lectr.
2 Demrs.

Archæology
Forster, E. S., M.B.E., M.A. Ox. (Prof. of Greek in Univ. of Sheffield) Lectr. (Classical A.).
Peet, T. E., M.A. Ox. Lectr. (Egyptol.)

Architecture, v. also Archæology and Technology—Engin. San.
Dickie, A. C., M.A., F.S.A., A.R.I.B.A. Prof.
Edwards, W. B., B.Arch. Liv., A.R.I.B.A. Lectr.
Drury, F. E., M.Sc.Tech., F.I.S.E., M.C.I. Lectr. (Bldg. Constn.).
Grantham, G. J., A.M.I.S.E. (Bldg. Constn.) Asst. Lectr.
Phythian, J. E., M.A. Lectr. (Italian Mural Painting).
1 Instr. in Drawing.

Banking
Cunliffe, W. Lectr.
Fraser, Sir D. D., K.B.E., M.Com. (H.).

Botany, v. also Agric., Mycol.
Weiss, F. E., D.Sc. Lond., M.Sc., F.R.S. Harrison Prof.
Howarth, W. O., M.Sc. Lectr.
Walton, J., M.A. Camb. Lectr.
Drew, Kathleen M., M.Sc. Asst. Lectr.
Marsh, R. W., B.A. Camb. Res. Asst. (Mycol.).

Botany, Cryptogamic
Lang, W. H., M.B., C.M., D.Sc. Glas., F.R.S. Barker Prof.
Robinson, Wilfrid, D.Sc. Sen. Lectr.

Chemistry, v. also Physics, Physiol., Tech.
Lapworth, A., D.Sc. Lond., F.R.S. Sir S. Hall Prof.
Robinson, R., D.Sc. St. And., F.R.S. (Organic C.) Prof.
Dixon, H. B., C.B.E., M.A. Ox., Ph.D. Prague, M.Sc., F.R.S. Hon. Prof.
Burt, F. P., M.B.E., B.Sc. Lond., D.Sc. Bris. (Stoichio-C.) Reader.
Senior Lectrs.:
Smith, Norman, D.Sc.
Myers, J. E., O.B.E., D.Sc.
Stephen, H., O.B.E., D.Sc.
Challenger, F., D.Sc. Birm., B.Sc. Lond., Ph.D. Gött.
Lectrs.:
Campbell, C., D.Sc.
Bangham, D. H., M.A. Ox.
Core, A. F., M.Sc. (S.).
Henry, D. C., M.A. Camb.
Fairbrother, F., M.Sc.
Burkhardt, G. N., M.Sc. Asst.
Baker, W., M.Sc. Asst.
Cavanagh, B., B.A. Ox., B.Sc. Lond. Asst.
Herbert, J. B. M., B.Sc.
Core, C. G., M.Sc. Asst.
Gaul, E. G., M.Sc. Senr. Lectr. (Agric. Chem.).
2 Demrs.

Chinese
Parker, E. H., M.A. Prof.

Classics, v. also Archæology
Calder, W. M., M.A. Aberd. & Ox. Hulme Prof. of Greek and Lectr. in Christian Epigraphy.
Conway, R. S., Litt.D. Camb. and Dub., F.B.A. (Latin and Indo-Eur. Philol.) Hulme Prof.
Anderson, W. B., M.A. Camb., D.Litt. Aberd. (Imperial Latin) Prof.
Husband, Jeanie, B.A. Liv. Lectr.
McLachlan, H., M.A., D.D. (Hellenistic Greek) Lectr.
Clifton, E. W. V., M.A. Ox. Lectr.
Petch, J. A., B.A. Ox. Asst. Lectr.
Johnson, S. K., B.A. Camb. Asst. Lectr.
Briggs, Helen M., B.A.
Beare, William, B.A. Dub.

Commerce, v. Acc., Econ., Rail., Stat.

Crystallography
The Vice-Chancellor Prof.
Buckley, H. E., M.Sc. Asst. Lectr.

Dentistry, v. *infra*

Economics, v. also Banking
Clay, H., M.A. Ox., M.Com. Jevons Prof.
Daniels, G. W., M.A., M.Com. (Com. and Administn.) Prof.
Ashton, T. S., M.A. Senr. Lectr.
Marsh, C. H., M.Com. Asst. Lectr

Economic History
*Unwin, G., M.A. Ox. Prof.

Education
Smith, H. Bompas, M.A. Ox., M.Ed. Prof.
Findlay, J. J., M.A. Ox., Ph.D. Leip., M.Ed. Sarah Fielden Prof.
Mark, T., D.Lit. Lond., B.Sc., M.Ed. (H.).
Start, Laura E., M.Ed. Lectr.
Eggar, Margaret E., N.F.U. Lectr.
Helm, J. H., B.A., LL.B. Camb. Lectr.
Wheeler, Olive A., D.Sc. Lond., M.Sc. Wales Lectr. & Tutor.
Ewing, Irene R. (E. of the Deaf) E. Ll. Jones Lectr.
Conway, Gladys, B.A. Liv. (Continuation School E.) Lectr.
Vaughan, Frances M., M.A. N.U.I. Lectr.
Hindshaw, Winifred, M.A., M.Ed. Lectr.
Clarke, Winifrid S. Lectr.
Jackson, Rev. S. F., M.A., Litt.D. Liv. and Manc., M.A. Lectr.
Burstall, Sara A., B.A. Lond., M.A. Dub. (H.).
Oppenheimer, Mary (Handwork and Drawing) Lectr.
Keighley, T., Mus.D. (Elementary E.—Singing) Lectr.
Medical Officers and 2 Instrs. for Elem. E. Dept.

Egyptology, v. Archæology

Electro-Chemistry, v. Physics

Electro-Technics
Beattie, R., D.Sc. Durh., M.I.E.E. E. S. Massey Prof.
Gerrard, H., M.Sc., A.M.I.E.E. Sen. Lectr.
Higham, J., M.Sc., A.M.I.E.E. Lectr.

Engineering, v. also Tech.
Gibson, A. H., D.Sc., M.I.C.E., M.I.Mech.E. Beyer Prof.
Sandeman, E., M.Sc., M.I.C.E. Assoc. Prof. and (S.) in Water Supply and Irrign.
Dewhurst, C. B., M.Sc., A.I.C.E. Clifton Lectr.
Mason, C. M., M.Sc., A.M.I.C.E., A.M.I.Mech.E. Sen. Lectr.
Jones, Eric, M.Sc. Lectr.
Baker, H. W., M.Sc. Lectr.
Wrigley, J. S., M.Sc. Manc. Asst. Lectr.
Mucklow, G. F., B.Sc. Asst. Lectr.
Hay, J. B. M., B.Sc. Glas. Asst. Lectr.
Frith, J., M.Sc., M.I.E.E. Special Lectr. (Mech. E.).

English Language and Literature
Sedgefield, W. J., M.A. Camb., Litt.D. Melb. Smith Prof. (E. Lang.).
Charlton, H. B., M.A. Leeds Taylor Prof. (E. Lit.).
Herford, C. H., Litt.D. Camb and Manc. Hon. Prof.
Wright, J. D., M.A. Senr. Lectr.
Harmer, Florence, B.A. Lond. Lectr.
Sheavyn, Phoebe, D.Lit. Lond. (S.).
Evans, B. I., M.A. Lond. Lectr.
Thouless, Priscilla G., M.A. Asst. Lectr.
Waller, R. D., M.A. Asst. Lectr.

French Language and Lit.
Kastner, L. E., M.A. Camb. Prof.
Orr, J., M.A., B.Litt. Ox., L. ès L. Paris Prof. (F. Language).

(H.), (S.) = Honorary, Special, Lectr. * *Ob.* 30.1.25.

Marks, J., M.A. Lectr.
Valette, Mme. Andrée, L. ès L. Paris Lectr.
Fawtier, R., Dr. ès L., Ag. d'Hist Lectr.
Crump, Phyllis E., M.A. Lond. Lectr.
Arnold, I. D. O., B.A. Wales Asst. Lectr.
MacInnes, W. A., M.A. Glas. Asst. Lectr.

Geography [Reader.
Barker, W. H., B.Sc. Lond.
Curnow, Irene J., B.A. Lond. Asst. Lectr.

Geology, Palæont., and Petrol.
Jones, O. T., M.A. Camb., D.Sc. Wales Prof.
Dawkins, Sir Wm. Boyd, M.A., D.Sc. Ox. and Manc., F.R.S. Hon. Prof.
Straw, S. H., M.Sc. Lond. Lectr.
Williams, N. T., B.Sc. Wales, M.I.Min.E. (Mining) Lectr.
Andrew, G., B.Sc. Asst. Lectr.
Morton, E., M.Sc. Asst. Lectr. (Economic G.).

German and G. Philology
Johannson, A., M.A. Dorpat and Manc. Henry Simon Prof.
Halliday, F. W., M.A. Lectr.
Lloyd, M. D. I., M.A. Wales Lectr.

Hebrew, v. Semitic

Histology, v. Physiol., Med. (Path.)

History, v. also Econ., Palæog.
Tout, T. F., M.A. Ox. and Manc., D.Lit. Durh., F.B.A. Prof.*
Davis, H. W. C., C.B.E., M.A. Ox. (Modern H.) Prof.*
Powicke, F. M., M.A. Ox. and Manc. (Mediæval) Prof.
Tait, J., M.A., Litt.D., F.B.A. Prof. (H.).
Atkinson, D., B.A. Ox. (Ancient) Reader.
Higham, C. S. S., M.A. Camb. (also Lectr. in *Military* H.) Sr. Lectr.
Higham, Florence M. G., M.A., Ph.D. (S.).
Deanesly, Margaret, M.A. (also Lectr. in *Eccl.* H.) Lectr.
Grieve, A. J., M.A. Ox., D.D. Lond. Lectr. (*Early Church* H.).
Fiddes, E., M.A. Camb., Aberd. and Manc. (Roman) (S.).
Dunlop, R., M.A. (Irish) (S.).
Fawtier, R., Dr. ès L. (French) *Italian Studies* Lectr.
Rébora, P., D.Litt. Turin Prof.

Law, v. also Railway
Eastwood, R. A., LL.D. Prof.
Oldfield, Sir Francis du Pré Prof. (Jurispr.).
Osborne, F. B., M.A. Ox. Lectr.
Easton, J. M., M.A. Ox. Lectr.
Ferguson, H. S., M.Com., F.C.A. ,,

Mathematics, v. also Tech.
Milne, E. A., M.A. Camb. Beyer Prof. (Applied M.).
Mordell, L. J., B.A. Camb. [Lectr. Fielden Prof. (Pure M.).
Child, J. M., M.A. Camb., B.Sc. Lond. Lectr.
Eagle, Albert, B.Sc., A.R.C.S. Lectr.
Bailey, W. H., M.A. Camb., M.Sc. Lond. Lectr.
Lightfoot, N. M. H., B.A. Camb. Asst. Lectr.
Walmsley, C., M.A. Camb. Asst. Lectr.
Withington, Doris, M.Sc. Lecture Asst.

Medicine, v. *infra*

Metallurgy and Metallography, v. also Tech.
Thompson, F. C., B.Sc. Lond., D.Met. Sheff. Prof.
O'Neill, H., M.Met. Sheff., M.Sc. Lectr.

(H.), (S.) = Honorary, Special, Lectr.

* See footnote on p. 184.

Cartwright, W., O.B.E., M.Sc. Asst. Lectr.

Military Organization and Tactics, v. also Hist.

Mathews, Bt.-Major S., M.C. (H.).

Mining, v. Geol.

Music, v. also Physics (Acoustics)

Brodsky, A., Mus.D. Lectr.
Keighley, T., Mus.D. Lectr.
Wilcock, A. W., Mus.D. Lectr.

Palæography

Little, A. G., M.A. Ox. Reader.

Philology, v. Classics, German

Philosophy, v. also Pol., Psych., Theol., and p. 184

Stocks, J. L., D.S.O., M.A. Ox. Sir S. Hall Prof.
Roth, H. L., M.A., D.Phil. Ox. Lectr.

Physics, v. also Elec. and Tech.

Bragg, W. L., M.A. Camb., F.R.S. Langworthy Prof. of P. and Prof. of *Acoustics*.
Schuster. Sir Arthur, Sc.D. Camb., Ph.D. Heid., D.Sc., F.R.S. Hon. Prof.
Lobley, A. G., M.Sc. (Electro-Chem.) Reader.
Nuttall, J. M., M.Sc. Sen. Lectr.
James, R. W., M.A. Camb., B.Sc. Lond. Senr. Lectr.
Dickson, E. C. S., B.A. Camb., Ph.D. Bonn. Sen. Lectr.
Bell, H., M.A. Edin. Lectr.
Brentano, J. C. M., D.Sc. Mun. Lectr.

Asst. Lectrs. :

Lowery, H., B.Sc. Lond.
Vernon, W. S., M.Sc. N.Z.
Jepson, D., M.Sc.

Physics, Colloid

Henry, D. C., M.A. Camb. Lectr.

Physiology and Histology

Raper, H. S., C.B.E., D.Sc., M.B., Ch.B. Leeds Brackenbury Prof.
Lamb, F. W. J. A., B.A., M.D., D.P.H. Dub. Reader in Human P.
McSwiney, B. A., M.B. Dub. Lectr. (Exper. P.).
Wilson, S. R., M.B., F.R.C.S. Edin. Asst. Lectr. (Applied P.).
White, H. V., M.D. (H.).
Langley, G. J., M.D., B.S. Lond. Hon. Asst. Lectr.

2 Demrs.

Physiological Chemistry

Ritchie, A. D., M.A. St. And., B.A. Camb. Lectr.
Clutterbuck, P. W., O.B.E., M.Sc., Ph.D. Leeds Demr.

Political Philosophy [Lectr.

Roth, H. L., M.A., D.Phil. Ox.

Psychology [Prof.

Pear, T. H., B.Sc. Lond., M.A.
Thouless, R. H., M.A., Ph.D. Camb. Lectr.
Wyatt, Stanley, M.Sc., M.Ed. (S.).

Railway Law

Turner, H. P., M.A., LL.M. Lectr.

Russian [Sir W. Mather Prof.

Trofimov, M. V., M.A. Pet.

Semitic Langs. and Lit.

Canney, M. A., M.A. Ox. (Prof. of Bibl. Crit.) Prof.
Eltoft, H. C. R., B.A. Asst. Lectr.

Spanish [Lectr.

Entwistle, W. J., M.A. Aberd.

Statistics [Asst. Lectr.

Walmsley, C., M.A. Camb.

Technology, v. *infra*

Theology, v. also Classics, Hist., Sem., and p. 184

Peake, A. S., M.A. Ox., D.D. Aberd., B.D. (Bibl. Crit.) Rylands Prof.
Farquhar, J. N., M.A., D.Litt. Ox. (Comp. Religion) Prof.

Lectrs. :
Mackintosh, R., B.D. Edin., M.A., D.D. Glas. (Philos. of Rel.).
Parsons, R. G., M.A. Ox. (Bib. Cr.).
Hirst, E. W., M.A. Lond., B.Sc. Ox. (Christian Ethics)

Lectrs. in Hist. of Doctrine :
Mumford, A. H., B.A. Lond., B.D. Edin.
Brewis, J. T., B.A., B.D.
Townsend, H., M.A. (R.U.I.), D.D. Lond.
Grieve, A. J., M.A. Ox., D.D. Lond.
Lectr. (Early Church Hist.).

Veterinary, v. *infra*, Bacteriology and Preventive Med.

Zoology, v. also Agr.
Hickson, S. J., M.A. Camb., D.Sc. Lond., D.Z. and Bot. Grön., F.R.S. Beyer Prof.
Thomson, J. Stuart, Ph.D. Berne, M.Sc. Sen. Lectr.
Neave, Ferris, B.Sc. Res. Asst. (Entom.).

Lectrs. :
Lapage, G., M.Sc., M.B., Ch.B.
Wardle, R. A., M.Sc. (Econ. and Med. Z.).

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Wilson, S. R. (v. Physiol.) Lectr.

Bacteriology, v. *infra*, Bact. and Prev. Med.

Cancer Research (Swindells Lab.)
White, C. P., M.A., M.D. Camb., F.R.C.S. (H.) and Dir. of Lab.

Children, Diseases of [Lectr.
Lapage, C. P., M.D., F.R.C.P.

Children, Surgical Diseases of
Rayner, H. H., M.B., Ch.B., F.R.C.S. (also in Clin. Surgery) Lectr.

Dermatology [Lectr.
Lancashire, G. H., M.D. Bruss.
Dyson, W., M.D. (also Hon. Spl. Lectr. in Path. of the Skin) Asst. Lectr.

Ear, Throat, and Nose, Diseases of the
Sewell, D. L., M.B., B.S. Lond. (Ear) Lectr.
Westmacott, F. H., C.B.E., B.Sc., F.R.C.S. (Throat and Nose) Lectr.

Forensic M., v. Path.

Gynæc., v. Obst.

Hygiene, v. Bact. and Prev. Med.

Infectious Diseases [(C.).
Sutherland, D. S., M.D. Glas.

Materia Med., Therap., and Pharmacy
Wild, R. B., M.D. Lond., M.Sc., F.R.C.P. Leech Prof.
Grier, J., M.Sc. Lectr. & Demr.
Leech, E. B., M.D. Camb., F.R.C.P. Lectr.
Roberts, Ivy, M.Sc. (Pharm. and Pharm. Chem.) Asst. Lectr.
Rawsthorne, F., L.D.S. (Dent. M.M.) Lectr.

Medicine, Clinical
Ramsbottom, A., M.D., D.P.H., F.R.C.P. Prof.
Brockbank, E. M., M.D., F.R.C.P. Lectr.
Tylecote, F. E., M.D., D.P.H. Lectr.
Melland, C. H., M.D. Lond., B.Sc. Lectr.
Core, D. E., M.D. (also in Neurology) Lectr.
Oliver, T. H., M.D. Lectr.

Medicine, Systematic
Murray, G. R., M.A., M.D. Camb., M.D. Dub., D.C.L. Durh., F.R.C.P. Prof.
Moore, F. Craven, M.D., M.Sc., F.R.C.P. Lectr.

(C.) = Clinical Lectr.

Mental Diseases
Orr, D., M.D., C.M. Edin. Lectr.

Neurology, v. Med., Clin.

Obstetrics and Gynæcology
Donald, A., M.A., M.D. Edin., F.R.C.P. Prof. (C.).
Fothergill, W. E., M.A., B.Sc., M.D. Edin. Prof.
Shaw, W. F., M.D. Lectr.
Dougal, D., M.D. Asst. Lectr.
Clifford, H., M.B., F.R.C.S. Edin. (C.).

Ophthalmology
McNabb, H. H., M.D. Lectr. (C.).
Wharton, J., M.D. Camb. (C.).
Bride, T. M., M.D. (C.).

Pathology and Path. Anat., v. also Derm.
Dunn, J. S., M.A., M.D. Glas. Procter Prof.
Anderton, W. B., M.B. Lond. (P. and Forensic M.) Lectr. & Curator of Museum.
Dible, J. H., M.B. Glas. (Bacteriology) Lectr.
Ryrie, B. J., M.B. Edin. (Morbid A. and Histology) Lectr.
Loveday, G. E., M.A., M.B., B.C. Camb. (Clin. P.) Lectr.
Roberts, W. M., M.Sc., M.B., Ch.B. (Chem. P.) Asst. Lectr.
2 Demrs.

Pharmacy, etc., v. Mat. Med.

Radiology
Barclay, A. E., O.B.E., M.D. Camb. Lectr.

Surgery, Clinical, v. also Children's Diseases
Burgess, A. H., M.B., M.Sc., F.R.C.S. Prof.
Roberts, C., M.B., B.S. Lond., F.R.C.S. Lectr. and Asst.
Buckley, J. P., M.A., M.D., B.C. Camb., M.B., M.S. Lond., F.R.C.S. Lectr.
Rayner, H. H., M.B., Ch.B., F.R.C.S. Lectr.

Surgery, Practical
Roberts, C., M.B., B.S. Lond., F.R.C.S. Lectr.

Surgery, Regional, v. Surg., Clin.

Surgery, Systematic
Telford, E. D., M.A., B.Ch. Camb., F.R.C.S. Prof.
Hey, W. H., M.B., F.R.C.S. Lectr. and Asst.

Surgical Pathology Reader.
Ray, J. H., M.B., Ch.M., F.R.C.S.
Wrigley, P. R., F.R.C.S. Lectr.
Wright, G., M.B., Ch.B. Edin., F.R.C.S. Lectr.

Therapeutics, v. Mat. Med.

Tuberculosis
Marsden, R. W., B.Sc., M.D., D.P.H. Hon. (C.).

Vaccination
Chisholm, Catherine, B.A., M.D. Lectr.

Venereal Diseases [Instr. (C.).
Macalpine, J. B., M.B., Ch.B.
Reid, W. J. S., M.A., M.D., B.Sc. Aberd. Instr. (C.).
Whitehead, Gordon, M.B., Ch.B. Instr. (C.).
Wilson, A., F.R.C.S. Instr. (C.).
Gibson, R., M.D. Edin. Instr. (C.).

Dentistry

Lectrs.:
Rodway, B. J., L.D.S. (Mechanics and Prosthetics).
Houghton, E., L.D.S. (Operative Surgery).
Headridge, D., L.D.S. (Anatomy, Histology, and Physiology).
Thompson, Prof. (v. Met.).
Hughes, T. Martin, M.R.C.S., L.R.C.P., L.D.S. (Orthodontics).
Simms, H., M.D., L.D.S. (Path. and Surg.).

(C.) = Clinical Lectr.

Wild, Prof. (v. Med., Mat. Med.).
Rawsthorne, F., L.D.S. (Mat. Med.).
Dunn, Prof. (v. Path.) (Bacteriology).
Gibson, S. K., L.D.S. (Histol.) Demr.

Bacteriology and Preventive Medicine (v. also Path.)

Topley, W. W. C., M.A., M.D. Camb., F.R.C.P. (Prof. of B. and Dir. of P.H. Lab.) Prof.
Sidebotham, E. J., M.A., M.B. Camb. Hon. Lectr. in P.H.
Sellers, A., M.D. Edin., D.P.H. Lectr. (Comp. Path.).
Nutt, Muriel M. Demr. in Bact.
Heap, H., M.Sc. (San. and Bact. Chem.) Sen. Lectr.
Wilson, G. S., M.D., B.S., D.P.H. Lectr. (Bact.).
Ferguson, F. R., M.B., Ch.B., D.P.H. Demr. in Bact.
Bardsley, Doris A., B.Sc. Research Asst.

Factory Hygiene

Legge, T. M., M.A., M.D. Ox., D.P.H. Lectr.

Public Health Administration

Butterworth, J. J., M.D., D.P.H. Lectr. in Hygiene and A.
Brindley, A. E., M.D. Lond., B.Sc., D.P.H. Lectr.

Sanitary Engineering, see under Technology

School Hygiene [Lectr.

Young, M., M.D. Edin., D.P.H.

Vet. Hygiene

Woods, W., F.R.C.V.S. Lectr.

Vital Statistics [Lectr.

Scholefield, E. H., B.M. Ox., D.P.H.

Technology

Jones, B. Mouat, M.A. Ox., Principal of the College of Tech. and Dean of the Faculty.

Architecture, v. *supra*

Chemistry, Applied

Pyman, F. L., Ph.D. Basle, D.Sc., F.I.C., F.R.S. Prof. of Technol. C.
Knecht, E., M.Sc.Tech., Ph.D. Zur., F.I.C., Assoc. Prof.

Lectrs. :

Grant, J., M.Sc.Tech., F.I.C.
McCulloch, Andrew, A.I.C. (Fuels).
Radcliffe, L. G., M.Sc.Tech., F.I.C.
Wood, J. K., D.Sc., F.I.C. (Physical C.).
Hibbert, Eva, M.Sc.Tech. Asst. Lectr.
Craven, May B., M.Sc.Tech. Asst. Lectr.
Hepburn, G. G., B.Sc. St. And., Ph.D. Basle Spl. Demr.
8 Demrs.

Dyeing, Bleaching, and Printing and Paper Manuf. [Lectr.

Huebner, J., M.Sc.Tech., F.I.C.
Rowe, F. M., D.Sc. Leeds, F.I.C. Lectr.

Engineering, Electrical

Walker, Miles, M.A. Camb., D.Sc. Lond., M.I.E.E. Prof.

Lectrs. :

Langton, J. L., M.Sc., M.I.E.E.
Moore, A. E., M.Sc.Tech., M.I.E.E.
Clayton, A. E., D.Sc. (Eng.) Lond., A.M.I.E.E.

Asst. Lectrs. :

Glynne, A., M.A. Camb.
Shelley, H. J., B.Sc.
1 Demr.

Engineering, Mechanical

Stoney, G. G., M.A.I. Dub., D.Sc. Durh., C*, M*, E*, F.R.S. Prof.

Lectrs. :

Jordan, H. G., M.Sc.Tech., A.R.C.S.I., M*
Petrie, P. T., M.Sc. Leeds, c*, m*
Popplewell, W. C., M.Sc., c*

C*, E*, M* = M.I.C E., M.I.E.E., M.I.Mech.E. ; c*, e*, m* = A.M.I.C.E., etc.

Smith, Dempster, M.B.E., M.Sc.Tech., M*
Jones, T. H., M.Sc., m*, A.F.R.Ae.S. (Eng. Drawing).
Boswall, R. O., B.Sc.Eng. Lond., m*, A.F.R.Ae.S.
Anderson, R. M., A.G.T.C., M.Sc.Tech.
Threlfall, H., M.Sc.Tech., A.R.C.S.I.
Ferguson, R. M., M.Sc.

Asst. Lectrs. & Demrs.:
Edmondson, A. R., M.Sc., c*, m*
Bevan, T., M.Sc.Tech.
Carrington, H., B.Sc., M.Sc.Tech., m*.

Engineering, Sanitary
Coleman, G. S., D.Sc. (Eng.) Lond., c* Lectr.
Flood, G. M., B.Sc. (Eng.) Cape Town, c*, A.M.I.Struct.E. Asst. Lectr.
Chadwick, A. S., M.R.San.I. Asst. Lectr.

Languages (Modern)
Grundy, W. H. R., B.A. Lectr.

Mathematics
Prescott, J., M.A., D.Sc. Lectr.
Bowman, F., M.A. Camb., M.Sc.Tech. Lectr.

Asst. Lectrs.:
Barratt, W. S., A.R.C.S.I., A.I.C.
Tilsley, H., B.Sc. (Eng.) Lond.
Lowry, H. V., B.A. Camb.

Metallurgy & Assaying
Rhead, E. L., M.Sc.Tech., F.I.C., M.Am.I.M.E. Lectr.
Mohn. G.. M.Sc.Tech. Demr.

Photographic Tech. [Lectr.
Gamble, C. W., O.B.E., M.Sc.Tech.

Physics
..... Lectr.
Adamson, A., M.Sc.Tech., A.R.C.S. Lectr.
Palmer, L. S., M.Sc., Ph.D. Bris. Lectr.
Mercer, H. N., M.A. Tor., B.Sc. Lond. Asst. Lectr.
Anderson, W., B.Sc. Glas. ,, ,,
Cockcroft, J. P., M.Sc. (Elect. Chem.) Demr.

Textile Industries
Slater, F. P., B.A. Camb., M.Sc. Prof.
Myers, W., M.Sc.Tech. Lectr.
Winterbottom, J., M.Sc.Tech. (Spinning) Lectr.
Cadness, H. Spl. Lectr. (Design).
Hanton, W. A., M.Sc.Tech. (T. Engin.) Lectr.
Booth, J. H., M.Com. Spl. Lectr. (Yarn and Cloth Markets).
Dust, Emily R. (Design) Asst. Lectr.
1 Demr.

University Extension

About 20 Tutors.

C*, E*, M* = M.I.C.E., M.I.E.E., M.I.Mech.E.; c*, e*, m* = A.M.I.C.E., etc.

ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY originated in the Mechanics' Institution, founded in 1824, and developed between 1879 and 1912 under the direction of J. H. Reynolds as the Technical School (1883) and Municipal School of Technology (1901). In 1903 were completed, with the help of benefactions from the estate of Sir Joseph Whitworth, buildings covering 7300 sq. yards in the centre of the city and worth with their equipment £400,000. It became connected with the Univ. of Manchester in 1905 through the constitution of a Faculty of Technology, the greater part of the work of which is conducted in the College, whose Principal is Dean of the Faculty. The work of the College includes advanced study and research in the subjects

specified in the above list of Professors and Lecturers and hydraulic experimental work, motor-car engineering, and india-rubber technology.

c

COLLEGES recognized for External Lectures in Theology:

BAPTIST COLLEGE, EGERTON HALL, HARTLEY PRIMITIVE METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, UNITARIAN HOME MISSIONARY COLLEGE, and UNITED METHODIST COLLEGE at Manchester; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range; WESLEYAN COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Interm. standard for B.Sc. and B.Sc.Tech.: the HARRIS INSTITUTE, Preston.

For third year of B.Sc.Tech. course in Mining: the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

GENERAL INFORMATION

Owens College, named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester School of Medicine was united with it in 1872. The Charter of 1880 by which the Victoria Univ. was founded established a federal constitution and made Owens a constituent Coll. of the Univ. Subsequently Univ. Coll., Liverpool, and Yorkshire Coll., Leeds, were admitted as constituent Colls. A new Charter was issued on July 15, 1903, reconstituting the Univ. under the name of the Vict. Univ. of Manchester and freeing it from liability to admit or remain in association with any Coll. other than Owens, and on June 24, 1904, the Act for the incorporation of Owens Coll. with the Univ. was passed. The Univ. Press was established in 1902.

In 1905, on the establishment of the Faculty of Technology, the work of Univ. standard at the Municipal School (now College) of Tech. was included in the Univ.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situate in the city. The athletic ground (30 acres) is at Fallowfield, about 1½ miles distant.

LIBRARIES. The main (Christie) library (over 190,000) includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Manchester Medical Society's Library (47,000) is housed in the Medical School, where it is available for students. The John Rylands (310,000) includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000) has valuable mediæval MSS. and printed books of seventeenth and eighteenth centuries. The Municipal Reference Library (265,000) is valuable for more recent books and periodicals.

LABORATORIES, ETC. Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany, Radio-activity, Ionization of Gases, Colloids, and Cancer. The Fielden School is organized mainly for demonstration, training, and research in Educn. The Manchester *Museum*, forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children.

Available for clinical instruction are 4 general *Hospitals*, 1 Dental and 7 other special hospls. including the Christie Cancer Pavilion. The Howard Estate *Observatory* in the Peak District is for investigation of the Upper Atmosphere.

FACULTIES. (1) Arts [including School of Architecture]; (2) Science; (3) Law; (4) Medicine[including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health]; (5) Music; (6) Commerce; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children]. Deans of Faculties: (1) Prof. Powicke (History); (2) Prof. W. L Bragg (Physics); (3) Prof. Oldfield; (4) Prof. Stopford (Anatomy); (5) Dr. J. K. Pyne; (6) Prof. Daniels; (7) Dr. H. M'Lachlan; (8) Principal Mouat-Jones; (9) Dr. S. Frank Jackson.

MATRICULATION. See Appendix XXI.

INDIAN STUDENTS. Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references, as to character and educational qualifications, before July 20.

DEGREE COURSES. 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.Com., B.D. (after Interm. courses in Arts), B.Sc.Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.Com. course can be completed by attendance on evening lectures.

Honours students of modern foreign languages may be permitted to count attendance on approved courses during one term at a foreign Univ. as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

HIGHER DEGREES. Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), LL.M. (2 yrs.), Ch.M., M.D., M.D.S., M.Com., M.Sc.Tech.; 2 yrs.—M.Ed.; 4 yrs.—Litt.D., D Sc., LL.D., Mus.D., D.D.

Open to graduates of other approved Univs. through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.Com., M.Sc.Tech., M.Ed. (open only to graduates). Graduates of other approved Univs. of 4 yrs.' (D.D. 6 yrs.') standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the Litt.D., D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc.Tech. (v. p. 16).

DIPLOMAS. Geog. (grads.), 1 yr. course; D.V.S.M., open to M.R.C.V.S. only, 6 mos.; Psych. Med. 1 yr., including 2 terms at the Univ.; D.P.H. 1 yr.; Teacher's (grads.), 1 yr.; L.D.S., 4 yrs.; Dp. Bact. (1 yr. post-grad.).

CERTIFICATES. Engin., 3 yrs.' course; Applied Chem., 3 yrs.; Archit., 3 yrs.; Mining; Factory or School Hygiene (subsequent to obtaining D.P.H.); Higher Commercial, 2 yrs. (grads. 1 yr.); Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 4 yrs.; Photog. Tech., 2 yrs. Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc.Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

SPECIAL COURSES on Tuberculosis for Med. and Vet. practrs.

SCHOLARSHIPS, ETC., FOR GRADUATES. A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Chemistry, £100; Economics, £70; Engineering, two of £200 each; Diseases of Children, £100; History, £50; Physics, £175; Prev. Med., £300—are open to foreign students; others—in Industry and Comm., £200 (3); History, £50—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded.

FEES. Matricn., £2. Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 26 gs. (Hons. in Archit., first 3 yrs. £42 per session, 4th and 5th yrs. £28 per session); B.Sc., 31 to 41 gs. (Hons. in Maths, 26 gs.); M.B., Ch.B. (5 sessions), 140 gs, *plus* Hospl. fees, 76 gs.; LL.B. (3 sessions), 37 gs.; B.D., about 13 gs.; B.Com., 16-19 gs.; Mus.B., about 14 gs.; B.D.S., 93 gs., *plus* Hospl. fees, 160 gs.; L.D.S., 83 gs., *plus* Hospl. fees, 125 gs.; B.Sc. Tech., £40-£60; Teacher's Dipl., £35. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate 15 gs., except Ph.D. £5).

Research fees, 7 to 10 gs. per session in Arts, Commerce, and Law; Educn., 4 gs.; higher fees for other science students.

HOSTELS. For men: Hulme Hall (Warden), £60 to £97: 10s. (*for 27 weeks*); Dalton Hall (Principal), £108; St. Anselm's Hall (Warden), £70; Lancashire Independent College (Principal), £87. For women (122): Ashburne Hall (Warden), 64 to 70 gs.; Ward Hall (Warden); Lees Hall (Warden) (both under Ashburne Hall Delegacy); Langdale Hall (Warden), chiefly for women training students, whose fees are £42, private students £70; Ellis Llwyd Jones Hall, special hostel for students in training as teachers of the deaf, £70; St. Gabriel's Hall (Warden), £55 to £65.

All PAST AND PRESENT MEMBERS of the Univ. are eligible for membership of the "Old Owensian Assocn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (twice a year).

ADULT EDUCATION. The Committee for the organization of the Extra-mural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ. itself, and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.

PERIODICAL PUBLICATIONS. *Calendar* (Sept.), 3s.; *Prospectus of Advanced Studies*; *Examn. Papers*, 6d. to 1s. 6d. a set, by Faculties; *The French Quarterly*, 3s.; *Bulletin of John Rylands Library*; *Technology* (pub. at Coll. of Tech.); *Journal of Manc. Egyptian and Orient. Soc.*; Pubns. of Chetham Society, Manchester; Pubns. of Brit. Soc. of Franciscan Studies. Students' Pubns.: *The Serpent* (magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. Departmental Prospectuses (April-May).

THE YEAR 1923–24

BENEFACTIONS. Manchester Geographical Society, £500 towards funds of Chair of Geog.; bequest by Mrs. F. Mond of £2000 for lectureship for advancement of education; bequest by Viscount Morley of over 7000 books for use of women students; Brunner Mond & Co., Ltd., £450 towards research in Metallurgy and Physics; Prof. A. V. Hill, £200 for prize in Bio-Chemistry; Henry Simon, Ltd., £25 p.a. for purchase of Government publications for

Commerce library; Manchester Whitworth Institute, pictures on loan; bequest by Dame Emily Rose, £5000 for scholarships (Matthew Kirtley) in Mech. Engineering; R. W. Rylands, endowment of 2 Law scholarships; Simon Carves, Ltd., renewal of Industrial Research Scholarship of £100 p.a.; Vulcan Boiler and General Insurance Co. renewal of fellowship, £200 p.a.; bequest by J. H. Worrall, £1000 for Geological Dept.; bequest by Mrs. Morrison Watson, £2028 for scholarship in anatomy; gift of £1500 in memory of late Philip Buckle for scholarship in Agric. or Zool.; Royal Botanical and Horticultural Soc. of Manchester, £100 for experimental work. *Grants from Local Authorities* increased to £13,150. The Law Society renewed its grant of £800.

NEW BUILDINGS, ETC. Museum extension; Hall of Residence for 60 women; site acquired for main building extension; athletic pavilion completed; Thomas Graham Laboratory for research in Colloids opened Jan. 23, 1924; Metallurgical Dept. opened Sept. 11, 1923.

OTHER NEW DEVELOPMENTS. In *Architecture* Honours and Certificate courses extended to 5 yrs., including in each of last 2 yrs. six months in architect's offices. Both courses are recognized by R.I.B.A. for partial exemption from final examns. for Associateship. In *Science* the newly instituted Honours School of General Science enrolled 17 students. Improved facilities for research in Colloids and in Metallurgy. Very successful evening course in Metallurgy. In *Law* chair of jurisprudence previously in abeyance was revived. In *Medicine* the new 6-years' curriculum was inaugurated. New course for Diploma in Psychological Med. was given. Curriculum for D.P.H. was rearranged. In *Technology* there was an increased demand for Higher Courses.

VISITORS. Institute of Metals (annual meeting); representatives of neighbouring towns; University Grants' Committee; Women's Engineering Society (Conference).

CO-OPERATION. Research work in Mycology under scheme supported by Empire Cotton Growing Corporation. *Interchange of Professors*: Weiss to Basle, 1923; Senn from Basle, 1924; Kanga from Gujarat Coll.; Lucy Wilson from Wellesley; Hishiyama from Tokio.

HONORARY DEGREES. On the occasion of the installation of the Chancellor: *D.D.*—The Archbishop of York; *LL.D.*—J. G. Adams, Sir J. Eldon Bankes, D. Y. Cameron, Sybil Thorndike, Sir Herbert T. Warren; *D.Sc.*—Sir Arthur Keith; *Litt.D.*—John Masefield, Eugénie Strong. On Founder's Day: *Litt.D.*—Sir J. G. Frazer; *Mus.D.*—Sir H. J. Wood; *M.Sc.*—C. Heape.

OTHER DEGREES CONFERRED. B.A., 126; M.A., 30; B.Sc., 152; M.Sc., 48; LL.B., 8; LL.M., 1; M.B., 53; M.D., 8; B.D.S., 4; Mus.B., 2; B.Com., 29; M.Com., 2; B.D., 5; B.Sc.Tech., 81; M.Sc.Tech., 32; M.Ed., 3; Ph.D., 10.

NUMBER OF STUDENTS. Faculty of Medicine, 687 (including 128 women); Technology, 290; other faculties, 1573 (women, 626); total, 2538. Evening Class students, 361.

RESIGNATIONS. Sir Christopher Needham, Treasurer; G. E. K. Braunholtz, Senr. Lectr. in Classics, on appointment to chair in Univ. College, Cardiff; L. W. Grensted, Lectr. in Theology, on appointment to a Chaplain Fellowship at Univ. College, Oxford; F. S. Sinnatt, Lectr. in Applied Chemistry, on appointment as Asst. Director of Fuel Research Board under the Dept. of Sci. and Indust. Research; Prof. S. Chapman, on appointment as Prof. of

Maths. in the Imperial College of Science; Prof. S. Alexander; J. L. Paton; Prof. A. J. Turner (Textile Tech.), on appointment as Director of Tech. Research Laboratory under Indian Central Cotton Committee of Bombay; W. W. Haldane.

DEATHS. Lord Morley, Chancellor of the Univ.; C. H. Preston.

EXTRA-MURAL WORK. 34 Tutorial and 7 one-year classes, 8 in Manchester, the rest in 26 other towns. 27 Tutors employed. The work was extended into rural areas. Bangor Summer School attended by 110 students and 17 lecturers and tutors.

Continued from p. 175]

Philosophy

Alexander, S., M.A. Ox. and Manc., Litt.D. Durh. and Manc., LL.D. St. A., F.B.A. — Hon. Prof.

Theology

Cheetham, F. P., M.A. Camb. — Lectr. (Bibl. Crit.)

Footnote to pp. 174 and 189—Prof. Tout is retiring with effect from Sept. 29, 1925, and Prof. Davis has been appointed Reg. Prof. of Mod. Hist. at Oxford *vice* Sir C. H. Firth resigned.

UNIVERSITY OF OXFORD

CHANCELLOR—The Most Hon. MARQUESS CURZON OF KEDLESTON, D.C.L. All Souls.

HIGH STEWARD—Right Hon. EARL OF BIRKENHEAD, B.C.L., M.A., Hon. D.C.L. Merton and Wadham Colleges.

VICE-CHANCELLOR—J. WELLS, M.A., Warden of Wadham College.

REPRESENTATIVES IN PARLIAMENT (BURGESSES OF THE UNIVERSITY)—LORD HUGH R. H. CECIL, Hon. D.C.L. Hertford ; Sir CHAS. W. C. OMAN, M.A. All Souls.

PROCTORS—A. LANE POOLE, M.A. St. John's ; C. K. ALLEN, M.A Univ.

ASSESSOR OF THE CHANCELLOR'S COURT—.....

PUBLIC ORATOR—A. D. GODLEY, M.A., Hon. D.Litt. Magdalen.

BODLEY'S LIBRARIAN—A. E. COWLEY, M.A., D.Litt. Magdalen.

KEEPER OF THE ARCHIVES—R. L. POOLE, M.A. Magdalen.

REGISTRAR—E. S. CRAIG, M.A. Magdalen.

ASSISTANT REGISTRAR—STANLEY CALDWELL, M.A. Wadham.

SECRETARY OF FACULTIES—H. M. MARGOLIOUTH, M.A. Oriel.

COLLEGES

ALL SOULS COLLEGE	*Warden*	F. W. PEMBER, M.A., D.C.L.
BALLIOL ,,	*Master*	A. D. LINDSAY, C.B.E., M.A.
BRASENOSE ,,	*Principal*	C. H. SAMPSON, M.A.
CHRIST CHURCH	*Dean*	H. J. WHITE, D.D.
CORPUS CHRISTI COLLEGE	*President*	P. S. ALLEN, M.A.
EXETER ,,	*Rector*	L. R. FARNELL, M.A., D.Litt.
HERTFORD ,,	*Principal*	Sir WALTER R. BUCHANAN-RIDDELL, Bart., M.A.
JESUS ,,	,,	E. G. HARDY, M.A., D.Litt.
LINCOLN ,,	*Rector*	J. A. R. MUNRO, M.A.
MAGDALEN ,,	*President*	Sir H. WARREN, K.C.V.O., M.A., Hon. D.C.L.
MERTON ,,	*Warden*	T. BOWMAN, M.A.
NEW ,,	,,	Rt. Hon. H. A. L. FISHER, M.P., M.A.
ORIEL ,,	*Provost*	L. R. PHELPS, M.A.

PEMBROKE COLLEGE	*Master*	F. HOMES DUDDEN, D.D.
QUEEN'S ,,	*Provost*	J. R. MAGRATH, D.D.
ST. JOHN'S ,,	*President*	H. A. JAMES, D.D.
TRINITY ,,	,,	H. E. D. BLAKISTON, D.D.
UNIVERSITY ,,	*Master*	Sir MICHAEL E. SADLER, K.C.S.I., C.B., M.A.
WADHAM ,,	*Warden*	J. WELLS, M.A.
WORCESTER ,,	*Provost*	F. J. LYS, M.A.
ST. EDMUND HALL	*Principal*	G. B. ALLEN, D.D.
KEBLE COLLEGE (New Foundation)	*Warden*	B. J. KIDD, D.D.

Censor of Non-Collegiate Students—J. B. BAKER, M.A.

PRIVATE HOSTELS

CAMPION HALL	*Licensed Master*	J. H. KEANE, M.A.
ST. BENET'S HALL	,, ,,	P. J. MCCANN, M.A.

RECOGNIZED SOCIETIES OF WOMEN STUDENTS

LADY MARGARET HALL	*Principal*	Miss LYNDA GRIER, M.A.
SOMERVILLE COLLEGE	,,	Miss E. PENROSE, O.B.E., M.A.
ST. HUGH'S COLLEGE	,,	Miss B. E. GWYER, M.A.
ST. HILDA'S HALL	,,	Miss WINIFRED H. MOBERLY, M.A.
SOCIETY OF OXFORD HOME STUDENTS	,,	Miss CHRISTINE M. E. BURROWS, M.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture, v. p. 191

Anatomy, v. also Zoology, Med.
Thomson, A., M.A. Ch. Ch. Lee's Prof.
Dodds-Parker, A. P., B.M., M.A. Magd. (Applied A.) Lectr.
Carleton, Mrs., M.A., O.H.S. Sr. Demr.
Wagstaffe, W. W., B.M., M.A. New Asst.
Hall, A. H., M.B. Birm. Asst.

Anglo-Saxon
Craigie, W. A., M.A. Or. Rawlinson and Bosworth Prof.

Anthropology, Physical [Lectr.
Buxton, L. H. D., M.A. Exe.

Anthropology, Social [Reader.
Marett, R. R., M.A., D.Sc. Exe.

Archæology, v. also Orient. Langs. and Papyr.
..... (Classical A. and Art) Linc. & Mert. Prof.
Casson, S., M.A. New (Classical A.) Lectr.
Beazley, J. D., M.A. Ch. Ch. Lectr. (Gk. vases).

Aramaic, v. Orient.

Art [Slade Prof.
Hind, A. M., M.A. Linc. (Fine Art)
Carline, S. W. (Drawing)
Ruskin Master.

Assyriology, v. Oriental Languages

Astronomy [Savilian Prof.
Turner, H. H., M.A., D.Sc. New
Knox-Shaw, H., M.A. Camb.
Radcliffe Observer.
Bellamy, F. A., Hon. M.A.
First Asst.
Bellamy, Ethel F. Asst.
Fotheringham, J. K., M.A., D.Litt.
Magd. Asst.
Hughes, J. S., B.A. New Coll.
Seismol. Asst.

Bio-Chemistry [Whitley Prof.
Peters, R. A., M.A. Trin.
Whitley, E., M.A. Trin. Demr.
Raiment, P. C., M.A. Univ. Demr.
Peskett, G. L., B.A. New Demr.

Botany, v. also Forestry, Rural Econ.
Keeble, Sir Frederick W., C.B.E., M.A. Magd. Sherardian Prof.
Church, A. H., M.A. Jes.
Lectr. & Senr. Demr.
Wilkins, W. H., M.A. Keb. Demr.
Druce, G. C., M.A., D.Sc. Magd.
Herbarium Curator.

Celtic
Fraser, J., M.A. Jes. Jesus Prof.

Chemistry [Waynflete Prof.
Perkin, W. H., M.A. Magd.
Sidgwick, N. V., M.A. Linc.
Reader.
Marsh, J. E., M.A. Mert. Demr.
Hope, E., M.A. Magd. Demr.
Hammick, D. Ll., M.A. Oriel
Demr.
Plant, S. G. P., M.A., B.Sc., D.Phil. Magd.
Lectr. in Organic C. and Demr.
Taylor, T. W. J., M.A. B.N.C.
Demr.
Ing., H. R., M.A., D.Phil. New Coll. Demr.
Gulland, J. M., B.Sc. Edin. Demr.
Soddy, F., M.A. Ch. Ch.
Lee's Prof.
Lambert, B., M.A. Mert.
Aldrichian Demr.
Demrs.:
Walden, A. F., M.A. New College
Hartley, E. G. J., M.A. Ch. Ch.
Applebey, M. P., B.Sc., M.A. St. J.
Hartley, K. T., B.A. Mert.
Brewer, F. M., B.A. Linc.
Schaffer, R. J., B.A. Mert.
Farrow, Eliz. M. O., B.A. St. H.

Classics, v. also Arch.
Murray, Gilbert, M.A., D.Litt. Ch. Ch. (Greek) Reg. Prof.
Tod, M. N., M.A. Or. (Greek Epigraphy) Lectr.
Clark, A. C., M.A. C.C.C. (Latin)
Corpus Prof.
Anderson, J. G. C., M.A. Ch. Ch. (Roman Epigraphy) Lectr.

Crystallography, Chem.
Barker, T. V., B.Sc., M.A. B.N.C.
Lectr.

Diplomatic
Poole, R. L., M.A. Magd. Lectr.

Divinity, v. Theology

Economics, v. also Pol. Econ.
..... Reader.

Education [Reader.
Keatinge, M. W., M.A., D.Sc. Exe.
Hendy, F. J. R., M.A. Linc.
Dir. of Training.
Icely, H. E. M., M.A. B.N.C.
Asst. Lectr. & Tutor.
Talbot, Elfrida M., M.A. St. Hu.
Lectr. and Tutor to Women Students and Principal of the Women's Hostel.

Egyptology, v. Orient.

Engineering Science, v. also Surveying
Jenkin, C. F., C.B.E., M.A. B.N.C.
Prof.

Thomas, W. N., M.A., D.Phil. B.N.C. Demr.
Hemingway, G. Y., B.A. Hert. Demr.

English
Gordon, G. S., M.A. Mert. Merton Prof. (E. Lit.).
Wyld, H. C. K., B.Litt., M.A. Mert. (E. Lang. and Lit.) Merton Prof.
Smith, D. Nichol, M.A. Mert. Goldsmiths' Reader.
Simpson, P., M.A. Or. Lectr.
Onions, C. T., M.A. Magd. Lectr.
Wilson, F. P., B.Litt., M.A. Linc. Lectr.
Brett-Smith, H. F. B., M.A. C.C.C. Lectr.

Forestry, v. also Surv., Rural Ec.
Troup, R. S., M.A., D.Sc. St. J. (Director, Imp. F. Inst.) Prof.
..... Lectr. (Tropical Forest Botany).
Williamson, H. S., M.A. Ch. Ch. Lectr. (F. Law).
Bourne, R., M.A. Trin. Asst.
Hiley, W. E., M.A. Qu. Lectr.* (Diseases of Trees).
Champion, H. G., B.A. New Coll. Lectr.* (Silviculture).
Chalk, L., B.A. Univ. Demr.* (Structure, etc. of Wood).
Day, W. R., B.Sc., B.A. Exe. Demr.* (Mycol. and Path. of Trees).

French
Rudler, G., Dr. ès L. Paris (Fr. Lit.), M.A. Worc. Foch Prof.
Gosse, Sir Edmund, C.B., LL.D. Zaharoff Lectr. ("The Biographies of Tallemant"), 1924.

Taylorian Lectrs.:
Berthon, H. E., M.V.O., M.A. Wadh. (Senior Lecturer).
Waters, E. G. R., M.A. Keb.
Ewert, A., M.A. St. J.

Genetics, v. Zool.

Geography, v. also Surv.
Beckit, H. O., M.A. Ball. Reader and Dir. of the School.
Cossar, J., M.A. Exe. Lectr.
MacMunn, Nora E., M.A. Soc.O.H.S. Asst. Lectr.
Baker, J. N. L., B.Litt., M.A. Jes. Asst.
Kendrew, W. G., M.A. Non-Coll. Tutor.

Geology and Palæontology
Sollas, W. J., M.A. Univ. Prof.
Douglas, J. A., D.Sc., M.A. Keb. Demr.
Button, G. T., M.A. New Coll. Demr.
Bayzand, C. J., B.A. Non-Coll. Demr.

Geometry [Savilian Prof.
Hardy, G. H., M.A. New Coll.

German [Taylorian Prof.
Fiedler, H. G., M.V.O., M.A. Qu. (G. Lang. and Lit.)
Montgomery, M., M.A., B.Litt. Linc. Taylorian Lectr.

Greek, Byzantine and Modern, Lang. and Lit.
Dawkins, R. McG., M.A. Exe. Bywater & Sotheby Prof.

Hebrew, v. Orient.

History, American
Morison, S. E., M.A. Ch. Ch. Harold Vyvyan Harmsworth Prof.

History, Ancient, v. also Archæol.
Jones, H. Stuart, M.A., D.Litt., B.N.C. Camden Prof.
Myres, J. L., M.A. New Coll. Wykeham Prof.

* Imperial Forestry Institute.

History, Colonial [Beit Prof.
Coupland, R., M.A. All S.
Bell, Kenneth N., M.A. Ball.
Beit Lectr.

History, Eccl., v. Theology

History, Econ., v. Pol. Econ.

History, English [Ford's Lectr.
Davis, H. W. C., M.A. Ball.

History, Indian
Lovett, Sir H. Verney, K.C.S.I., M.A. Worc. Reader.

History, Military, v. Milit.

History, Modern, v. also Dipl.
Davis, H. W C., C.B.E., M.A.
Reg. Prof.*
* See footnote on p. 184.
Oman, Sir Charles W. C., K.B.E., M.A. All S. Chichele Prof.
Mowat, R. B., M.A. C.C.C.
Lectr. in Mod. European H.

Italian
Foligno, C., M.A. Qu. Serena Prof.
Del Re, A., M.A. Ball.
Taylorian Lectr.

Law, v. *infra*

Literature, Modern European
Robertson, J. G., M.A., Ph.D., Prof. of German in Univ. of Lond.
Taylorian Annual Lect., 1924.

Logic [Wykeham Prof.
Joachim, H. H., M.A. New Coll.

Mathematics, Pure
Dixon, A. L., M.A. Magd.
Waynflete Prof.

Mathematics, Applied [Lectr.
Pidduck, F. B., M.A., D.Sc. C.C.C.

Medicine, v. *infra*

Meteorology, v. Philosophy Expl.

Military History
..... Chichele Prof.

Mineralogy, v. also Crystal.
Bowman, H. L., M.A., D.Sc. Magd. Waynflete Prof.

Music [Prof.
Allen, Sir H. P., M.A., D.Mus. New
Ley, H. G., M.A., D.Mus. Ch. Ch.
Choragus (Asst. to Prof.).

Oriental Languages, v. *infra*

Palæography
Lowe, E. A., M.A., C.C.C. Lectr.

Papyrology
Hunt, A. S., M.A., D.Litt. Qu. Prof.

Philology, Comparative
Wright, J., M.A. Exe. Prof.

Philosophy
Prichard, H. A., M.A. Trin. Lectr.

Philosophy, Expl. [Lee's Prof.
Lindemann, F. A., M.A. Ch. Ch.
Griffith, I. O., M.A. B.N.C. Demr.
Dobson, G. M. B., M.A. Linc.
Lectr. (*Meteorology*) and Demr.
Atkinson, R. d'E., M.A. Hert.
Demr.
King, E. B., B.A. Ball. Demr.

Philosophy, Mental, v. also Logic
Brown, Wm., D.M. Ch. Ch.
Wilde Reader.

Philosophy, Moral, & Metaphys.
Smith, J. A., M.A. Magd.
Waynflete Prof.
Joseph, H. W. B., M.A. New
Herbert Spencer Lectr.

Philos., Moral [White's Prof.
Stewart, J. A., M.A. C.C.C.
Ross, W. D., M.A. Or. Depy. Prof.

Philos., Natural [Sedleian Prof.
Love, A. E. H., M.A., D.Sc. Qu.

Physics [Wykeham Prof.
Townsend, J. S. E., M.A. New
Lattey, R. T., B.Sc., M.A. Trin.
Demr.
Gill, E. W. B., B.Sc., M.A. Mert.
Demr.
Morrell, J. H., M.A. Magd. Demr.
Biggs, H. F., M.A. Trin. Demr.
McCallum, S. P., B.A. Hert.
Demr.

Physiology, v. also Medicine
Sherrington, Sir Charles S., O.M., G.B.E., M.A., Hon. D.Sc. Magd. Waynflete Prof.
Douglas, C. G., B.Sc., D.M. St. J. Demr.
Liddell, E. G. T., B.M., M.A. Trin. Demr.
Carleton, H. M., B.Sc., M.A. New Coll. Demr.
Haynes, F., B.A. Non-Coll. Demr.
Fulton, J. F., B.A. Magd. Demr.

Poetry
Garrod, Heathcote W., C.B.E., M.A. Mert. Prof.

Political Econ. [Drummond Prof.
Macgregor, D. H., M.A. All S.
Lipson, E., M.A., New Coll. (Ec. Hist.) Reader.
Keynes, J. M., M.A. Camb. Sidney Ball Lectr., 1924 ("The End of *laissez-faire*").

Political Theory and Institns.
Adams, W. G. S., M.A. All S. Gladstone Prof.

Religion, v. also Theology
Shebbeare, C. J., M.A. Ch. Ch. Wilde Lectr. (Nat. & Comp. R.).

Romance Lang. [Taylorian Prof.
Studer, P., M.A. Exe.

Rural Economy, v. *infra*

Russian [Prof. and Reader.
Forbes, N., M.A. Ball.

Spanish
de Arteaga y Pereira, Don Fernando, M.A. Worc. Prof. and Taylorian Lectr.
Kolkhorst, G. A., B.A. Exe. Taylorian Junior Lectr.

Spectroscopy [Prof. & Reader.
Merton, T. R., M.A., D.Sc. Ball.

Surveying (for Engin., Forestry, and Geog. Students)
Mackenzie, N. F., Hon. M.A. Instr.

Thermodynamics [Reader.
Egerton, A. C. G., M.A. Ball.

Zoology and Comp. Anat., v. also Rural Econ.
Goodrich, E. S., M.A. Mert. Linacre Prof.
Poulton, E. B., M.A., D.Sc. Jes. (Zool.) Hope Prof.
de Beer, G. R., M.A., B.Sc. Mert. Demr.
Baker, J. R., B.A. New Coll. Demr.
Elton, C. S., B.A. New Coll. Demr.
Huxley, J. S., M.A. New Coll. Lectr. in Genetics and Demr.

Law

Civil
De Zulueta, F., M.A., D.C.L. All S. Reg. Prof.

Criminal, and Evidence
Stallybrass, W. T. S., M.A. B.N.C. Lectr.

English
Holdsworth, W. S., K.C., D.C.L. All S. Vinerian Prof.
Hazel, A. E. W., C.B.E., B.C.L., M.A. Jes. All Souls Reader.

Indian
Woodroffe, Sir John G., B.C.L., M.A. Univ. Reader.

Internat., and Diplomacy
Brierly, J. L., B.C.L., M.A. All S. Chichele Prof.

Internat. (*Private*)
Cheshire, G. C., B.C.L., M.A. Exe. Lectr.

Jurisprudence
Vinogradoff, Sir Paul, M.A., Hon. D.C.L., C.C.C. Corpus Prof.

Roman
Jolowicz, H. F., M.A. All Souls Reader.

Roman-Dutch [Rhodes Prof.
Lee, R. W., D.C.L. Ball.
(Reader at Inns of Court)

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anatomy, Morbid
Gibson, A. G., D.M. Ch. Ch. Lectr.

Clinical Physiology
Priestley, J. G., D.M. Ch. Ch. Christopher Welch Lectr.

Medicine
Garrod, Sir Archibald E., K.C.M.G., D.M. Ch. Ch. Reg. Prof.
Gibson, A. G., D.M. Ch. Ch. Litchfield Lectr.
Other Clinical Instructors in Med. and Surg. :
Waters, W. A. P., D.M.
Dodds-Parker, A. P., B.M., M.A.
Whitelocke, H. A. B., B.M., M.A.
Collier, W. T., D.M.
Hobson, F. G., D.M.
Mallam, E., D.M.
Turrell, W. J., D.M.
Sankey, R. H., B.M., M.A.
Bevers, E. C., B.M., M.A.
Girdlestone, G. R., B.M., M.A.
Duigan, W., M.A., M.D. Camb.

Ophthalmology
Adams, P. E. H., B.M., M.A. Exe. Margaret Ogilvie's Reader.

Pathology, v. also Anat. [Prof.
Dreyer, G., C.B.E., M.A. Linc.
Walker, E. W. A., D.Sc., D.M. Univ. *Dean of Med. Sch.* Lectr.
Vollum, R. L. (M.A. Brit. Col.) Demr.

Pharmacology [Prof. & Reader.
Gunn, J. A., M.A. Qu.
MacKeith, M. H., B.M., M.A. Magd. Demr.
Franklin, K. J., B.M., M.A. Or. Demr.

Surgery
Whitelocke, R. H. A., Hon. M.A. Linc. Litchfield Lectr.

Oriental Languages

Arabic [Laudian Prof.
Margoliouth, D. S., D.Litt. New

Aramaic [Lectr.
Stenning, J. F., C.B., M.A. Wadh.

Assyriology [Shillito Reader.
Langdon, S., M.A. Jes. Prof. &

Bengali
Thompson, E. J., Ph.D. Lond. Lectr.

Burmese
Rigg, A. E., M.A. Corp. Lectr.

Chinese
Soothill, W. E., M.A. Trin. Prof.

Egyptology
Griffith, F. Ll., M.A. Qu. Prof. and Reader.

Hebrew [Reg. Prof.
Cooke, G. A., D.D. Ch. Ch.
Loewe, H. M. J., M.A. Exe. (Rabbinic H.) Lectr.

Hindustani and Hindi
Dewhurst, R. P., M.A. Ball. Lectr.

Persian and Marathi
Seddon, C. N. Lectr.

Sanskrit [Boden Prof.
Macdonell, A. A., M.A. Ball.

Tamil and Telugu
Roberts, S. G. Lectr.

Rural Economy

Somerville, W., M.A., D.Sc. St. J. [Sibthorpian Prof.
Peel, W. R., M.A. Ball. Lectr. in Agr.
Ellis, J. C. B., M.A. Jes. Demr.
Doyne, H. C., M.A. Trin. Demr.

Agr. Botany [Lectr.
Bancroft, Helen, D.Sc. Lond.

Agr. Chemistry [Reader.
Morison, C. G. T., M.A. Ball.

Agr. Economics, v. also Farm
Assts. in Institute for Research :
Bridges, A., B.A. Linc. ; Dixey, R. N., B.A. St.J. ; Holmes, H. R. J. ; Howell, J. P. ; Macnab, J. S. ; Sherard, F.R.G.N., B.A. Camb. ; Stilgoe, H. C., B.A. Ch. Ch. ; Upfold, S. J. ; 3 Research Scholars.

Agr. Engineering
Owen, Capt. B. J.
" Dir. of Research Institute.

Agr. History
Lennard, R. V., M.A. Wadh. Lectr.

Agr. Law [Lectr.
Hilliard, E., B.C.L., M.A. Ball.

Co-operation [Lectr.
Hart-Synnot, R. V. O., M.A., St. J.

Economic Botany & Zoology, etc.
..... Advisory Entomologist.
Cunliffe, N., M.A. Wadh.
Christopher Welch Lectr.
Woodward, R. C., B.Sc.
Advisory Mycologist.

Economics, History and Surveying
Amery, G. D., M.A. B.N.C. Lectr.

Farm Acctcy. and Loc. Govt.
Orwin, C. S., M.A. Ball. (Dir. of Inst. for Research in Agr. Economics) Lectr.

Estate Management [Lectr.
Thring, D. T., Hon. M.A. Mert.

Local Govt. and Land Tenure
James, W. E. C., B.A. Magd. Lectr.

Theology

Bib. Studies [Speaker's Lectr.
Bevan, E. R., O.B.E., M.A., Hon. D.Litt. New Coll.

Divinity [Reg. Prof.
Goudge, H. L., D.D. Ch. Ch.

Lock, W., D.D. Keb.
Margaret Prof.
Williams, N. P., B.D., M.A. New Coll. Bampton Lectr.

Eccles. History [Reg. Prof.
Watson, E. W., D.D. Ch. Ch.

Exegesis [Dean Ireland's Prof.
Turner, C. H., M.A. Magd.

Interpretation of Holy Script.
Burney, C. F., M.A., D.Litt. Or.
Oriel Prof.
Casartelli, Rt. Rev. L. C., Hon. D.D. Louv.
Ratambai Katrak Lectr.

Liturgiology [Lectr.
Brightman, F. E., M.A. Magd.

Pastoral Theology [Reg. Prof.
Ottley, R. L., D.D. Ch. Ch.

Philos. of Christian Religion
Webb, C. C. J., M.A. Oriel
Oriel Prof.

Septuagint [Grinfield Lectr.
Davies, A. Ll., M.A. Qu.

Romanes Lecturer

1924, John Masefield, Hon. D.Litt. (" Shakespeare and Spiritual Life ") ; 1925, Sir W. H. Bragg (" The Crystalline State ").

University Extension

Lecturers employed under the direction of the Extra-mural Studies Delegacy (about 30), v. pp. 208, 212.

THE COLLEGES

ALL SOULS COLLEGE. Founded 1437. Warden—F. W. Pember, D.C.L.
Fellows : Abel-Smith, L. R., M.A. ; Adams, W. G. S., M.A., Prof. of Pol. Theory, etc. ; Beckett, W. E., B.A. ; Blagden, J. B., B.A. ; Brand, Hon. R. H., C.M.G., M.A. ; Bridges, E. E., M.A. ; Brierly, J. L., M.A., B.C.L., Prof. of Internat. Law ; Cholmondeley, F. G., M.A. ; Corbett, P. E., B.A. ; Coupland, R., M.A., Prof of Col. History ; Craster, H. H. E., M.A., D.Litt. ; Curtis, L. G., M.A. ; Dawson, G. G., M.A. ; de Zulueta, F., D.C.L., Prof. of Civil Law ; Edgeworth, F. Y., M.A. ; Egerton, H. E., M.A. ; Faber, G. C., M.A., Bursar ; Foster, J. G., B.A. ; Hancock, W. K., B.A. ; Harris, C. R. S., M.A., D.Ph. ; Holdsworth, W. S., D.C.L., Prof. of Engl. Law ; Holland, Sir T. E., K.C., D.C.L. ; Jacob, E. F., M.A., D.Ph. ; Johnson, A. H., M.A. ; Lang, Rt. Hon.

and Most Rev. C. G., M.A., Hon. D.D.; Lawrence, T. E., C.B., B.A.; Lee, R. W., D.C.L., Prof. of Rom.-Dutch Law; Lucas, Sir C. P., K.C.B., K.C.M.G., M.A.; Macgregor, D. H., M.A., Prof. of Polit. Econ.; Malcolm, D. O., M.A.; Morrah, D. MacG., M.A.; Oman, Sir C. W. C., K.B.E., M.A, Librarian, Prof. of Mod. Hist.; Pares, R., B.A.; Pollard, A. F., M.A.; Radcliffe, C. J., B.A.; Robertson, C. G., C.V.O., M.A.; Simon, Rt. Hon. Sir John A., K.C.V.O., K.C., M.A.; Somervell, D. B., M.A., Dean; Summer, B. H., M.A.; Wilkinson, H. Spenser, M.A.; Woodward, E. Ll., M.A.

BALLIOL COLLEGE. Founded 1263–1268. *Master*—A. D. Lindsay, C.B.E., M.A.

Fellows: Bailey, C., M.B.E., M.A., Jowett Fellow, *Classics* * and Tutor for admissions; Bell, K. N., M.A., *Mod. Hist.* *; Gibbon, H. H., O.B.E., M.A., Chaplain, Catech. Lectr.; Hartley, H. B., C.B.E., M.A., *Science*, *‡ *Phys. Chem.*; Hilliard, E., M.A., B.C.L., Senior Bursar, *Law* *; Macdonell, A. A., M.A., Prof. of Sansk.; Macgregor, D. C., M.A., *Classics* *; MacMurray, J. M.A., Jowett Lectr. in *Philos. Classics* *; Merton, T. R., M.A., D.Sc., Prof. of Spectroscopy; Morris, C. R., B.A., *Classics* *; Nicholson, J. W., M.A., F.R.S., *Maths. and Physics* *; Orwin, C. S., M.A.; Pickard-Cambridge, A. W., M.A., Jowett Fellow, *Classics*, *‡ *Greek*, Librarian; Ridley, M. R., M.A., Chaplain, *Engl. Lit.* *; Rodger, A. B., B.A., *Econ.* *; Urquhart, F. F., M.A., Senr. Dean, *Mod. Hist.* *

Other Lectrs., etc.: Walker, E., D.Mus., M.A., Dir. of Music; Priestley, J. G., D.M. Ch. Ch., ‡ *Physiol.*; Duke, A. C. H., C.M.G., Dom. Bursar; Sumner, B. H., M.A., *Mod. Hist.* *; Smith, H. G., B.A., ‡ *Chem.*; Frazer, J. E., B.A., *Chem.*; Tylor, T. H., B.C.L., B.A., *Jurispr.*

BRASENOSE COLLEGE. Founded 1509. Principal—C. H. Sampson, M.A.

Fellows: Barker, T. V., M.A., B.Sc., University Lectr. in Chemical Crystallography; Butler, A. J., M.A., D.Litt.; * Griffith, I. O., M.A.; * Holroyd, M., M.A.; Jeffery, R. W., M.A. ‡; Jenkin, C. F., C.B.E., M.A., Prof. of Engin.; Jenkinson, A. J., O.B.E., M.A., Tutor and Librarian *; Jones, H. S., M.A., D.Litt., Prof. of Anc. Hist.; Platnauer, M., M.A., B.Litt. ‡; Stallybrass, W. T. S., O.B.E., M.A., * Vice-Principal, University Lectr. in Crim. Law; Stocker, W. N., M.A., Lecturer and Home Bursar; Taylor, T. W. J., M.A., ‡; Wace, H. C., M A., * Chaplain, Bursar; Wakeling, G. H., O.B.E., M.A., Senr. Tutor.

Other Lectrs.: Brett-Smith, H. F. B., M.A., *Engl. Lit.*; Jacobs, A. C., B.A., B.C.L., *Law.*

CHRIST CHURCH. Founded 1546. Dean—Very Rev. H. J. White, D.D.

Canons: Cooke, G. A., D.D., Reg. Prof. of Hebrew; Lock, W., D.D., Lady Marg. Prof. of Div; Ottley, R. L., D.D., Reg. Prof. of Past. Theol.; Shaw, Rt. Rev. and Ven. E. D., D.D., Archdeacon of Oxford; Watson, E. W., D.D., Reg. Prof. of Eccles. Hist.; Goudge, H. L., D.D., Reg. Prof. of Div.

Students (equivalent to Fellows): Anderson, J. G. C., M.A., * *Classics*; Barrington-Ward, J. G., M.A., * *Classics*; Beazley, J. D., M.A., * *Classics*; Blunt, H. W., M.A., * *Classics*; Bolton King, E., B.A., Westminster Research Student; Carter, A. T., C.B.E., D.C.L., K.C., * *Law*; Chaundy, T. W., M.A., * *Maths.*; Dundas, R. H., M.A., Censor, * *Classics*; Feiling, K. G., O.B.E., M.A., * *History*; Harrod, H. R. F., B.A., *Mod. Hist.*; Heaton, T. B., O.B.E., D.M., * Lee's Reader in *Anat.*; Garrod, Sir A. E., K.C.M.G., D.M., F.R.S., Reg. Prof. of *Med.*; Hutchinson, G. T., M.A., Treasurer; Lindemann, F. A., M.A., F.R.S., Lee's Prof. of Exp. Philos.; Masterman, J. C., M.A., Censor,

* Tutor. ‡ Lecturer.

* *Hist.*; Murray, Gilbert, M.A., D.Litt., Reg. Prof. of *Greek*; Owen, S. G., M.A., * *Classics*; Payne-Smith, W. H., M.A.; Rawlinson, A. E. J., B.D., M.A., * *Theol.*; Russell, A. S., M.A., * Lee's Reader in *Chem.*; Slessor, Major A. K., M.A., Steward; Soddy, F., M.A., F.R.S., Lee's Prof. of Chem.; Taylor, F. A., M.A. *; Thomson, A., M.A., Lee's Prof. of Anat.

Lectrs.: Bosanquet, C. H., M.A., Lee's Reader in *Physics*; Jacob, E. F., M.A., D.Ph., *Mod. Hist.*; Ryle, G., B.A., *Philos.*; Morison, C. G. T., M.A., *Rur. Econ.*

CORPUS CHRISTI COLLEGE. Founded 1516. President—P. S. Allen, M.A.

Fellows: Clark, A. C., M.A., Vice-Pres., Corpus Prof. of *Latin*; Grundy, G. B., M.A., D.Litt. *; Mowat, R. B., M.A., Asst. Tutor; Phelps, W., M.A. *; Pidduck, F. B., M.A., D.Sc., Asst. Tutor; Plummer, C., M.A., Chaplain; Poynton, J. B., B.A., Asst. Tutor; Schiller, F. C. S., M.A., D.Sc. *; Stewart, J. A., M.A., Prof. of Moral Philos.; Vinogradoff, Sir Paul, M.A., Hon. D.C.L., Corpus Prof. Jurispr.

Lectrs. not on the Foundation: Miles, Sir J. C., M.A., B.C.L., Mert., *Jurispr.*; Hammick, D. L., M.A., Or., *Nat. Sci.*; Lightfoot, R. H., M.A., New Coll., *Theol.*

EXETER COLLEGE. Founded 1314. Rector—L. R. Farnell, D.Litt.

Fellows: Atkinson, C. T., M.A., ‡ *Modern Hist.*; Barber, E. A., M.A., Senior Tutor, Dean, * ‡ *Classics*; Cheshire, G. C., B.C.L., M.A., Bursar, ‡ *Law*; Coghill, V. H. K. A., B.A., Librarian; Henderson, B. W., M.A., D.Litt.; Marett, R. R., M.A., D.Sc., * Reader in Soc. Anthrop.; Raikes, H. R., M.A., Sub-Rector, * *Nat. Sc.*; Williams, N. P., B.D., M.A., Chaplain Fellow, ‡ *Theol.* Non-stipendiary: Balfour, H., M.A.; Dawkins, R. MacG., M.A., Prof. of Byzantine and Modern Greek.

Other Lectrs.: Loewe, H. M. J., M.A., *Hebrew*; Newboult, H. O., B.A., St. J., *Maths.*; Stampa, L., M.A., Magd., *Modern Hist.*; Waters, E. G. R., M.A., Keb., *French*; Wilson, F. P., B.Litt., Linc., *Engl.*; Wood, T., D.Mus., M.A., *Music.*

HERTFORD COLLEGE. Founded 1874. Principal—Sir Walter R. Buchanan-Riddell, Bart., M.A.

Fellows: Atkinson, R. d'E., B.A. (Research Fellow); Boase, T. S. R., B.A., ‡ *Mod. Hist.*; Cecil, Rt. Hon. Lord Hugh, M.P., M.A.; Cruttwell, C. R. M. F., M.A., Dean, * ‡ *Mod. Hist.*; Denniston, J. D., O.B.E., M.A., Librarian, * ‡ *Classics*; Haselfoot, C. E., M.A., * ‡ *Nat. Sc.*; Murphy, N. R., M.A., Bursar, ‡ *Philos.*; Hignett, C., M.A., ‡ *Anc. Hist.*

Other Lectrs.: Allen, C. K., M.A. Univ., *Jurispr.*

JESUS COLLEGE. Founded 1571. Principal—E. G. Hardy, M.A., D.Litt.

Fellows: Chapman, D. L., M.A., F.R.S., Tutor in *Nat. Sc.* and Junr. Bursar; Reichel, Sir Harry, M.A.; de Winton, Ven. F. H., M.A.; Dodd, P. W. M.A., Asst. Tutor *Litt. Hum.*; Edwards, J. Goronwy, M.A., Librarian, Asst. Tutor, *Mod. Hist.*; Fraser, J., M.A., Prof. of Celtic; Genner, E. E., M.A., Senr. Tutor, *Classics*; George, H. J., M.A., Asst. Tutor, *Chem.*; Hazel, A. E. W., C.B.E., M.A., B.C.L., Vice-Principal, Senr. Bursar, Dean, Asst. Tutor, *Law*; Hodgkinson, J., M.A., Asst. Tutor, *Maths.*; Poulton, E. B., M.A., F.R.S., Prof. of Zool.; Seymour, P. A., M.A., Asst. Tutor, *Classics.*

Other Lectrs., etc.: Brett-Smith, H. F. B., M.A., C.C.C. *English*; Cross, L. B., B.A., Chaplain, ‡ *Theol.*; Stenning, J. F., C.B., C.B.E., M.A. Wad., ‡ *Orient. Langs.*; Waters, E. G. R., M.A. Keb., ‡ *French.*

* Tutor. ‡ Lecturer.

LINCOLN COLLEGE. Founded 1427. Rector—J. A. R. Munro, M.A.

Fellows: Brook, V. J. K., M.A, Chaplain, Jr. Tutor, and Dean of Degrees, ‡ *Theol.*; Carlyle, E. I., M.A., Bursar, Librarian, ‡ *Modern Hist.*; Dreyer, G., C.B.E., M.A., F.R.S., Prof. of *Path.*; Gardner, P., M.A., D.Litt., Prof. of Class. Archæol. and Art; Hanbury, H. G., M.A., B.C.L., Dean, ‡ *Jurispr.*; Marchant, E. C., M.A., * Sub-Rector, Sr. Tutor, ‡ *Classics*; Sidgwick, N. V., M.A., F.R.S., ‡ *Nat. Sc.*

Other Lectrs.: Carlyle, A. J., M.A., D.Litt. Univ., *Engl. Lit.*; Jeffery, R. W., M.A. B.N.C., *Mod. Hist.*; Morison, C. G. T., M.A. Ball., *Agr. Chem.*

MAGDALEN COLLEGE. Founded 1458. President — Sir H. Warren, K.C.V.O., M.A., Hon. D.C.L.

Fellows: Bell, Charles Francis, M.A.; Benecke, Paul V. M., M.A., * *Classics*; Brightman, F. E., M.A.; Bowman, H. L., D.Sc., Prof. of Mineralogy; Carter, C. R., M.A., Estates Bursar, Curator of the Botanic Garden; Coolidge, W. A. B., M.A.; Cowley, A. E., M.A., D.Litt.; Craig, E. S., M.A.; Dixon, A. L., M.A., F.R.S., Prof. of Maths.; Driver, G. R., M.A., * *Classics*, Jr. Dean of Arts, Librarian; Gunther, R. W. T., M.A.; Hodgson, L., M.A., ‡ *Theol.*, Dean of *Div.*, Sec. to Tut. Board; Hogarth, D. G., C.M.G., M.A., D.Litt.; Hope, E., M.A., * *Chem.*; Keeble, Sir Frederick W., C.B.E., M.A., Sc.D., F.R.S., Prof. of Botany; Lee, S. G., M.A., * *Hist.*, Sr. Dean of Arts; MacKeith, M. H., B.M., M.A.; Manley, J. J., M.A.; Miers, Sir H. A., M.A., D.Sc., F.R.S.; Onions, C. T., M.A., ‡ Engin.; Pedder, A. L., M.A., * *Maths.* and *Physics*; Perkin, W. H., M.A., Ph.D., F.R.S., Prof. of Chem.; Poole, R. L., M.A.; Salter, H. E., M.A.; Segar, R., M.A., * *Law*; Sherrington, Sir Charles S., O.M., G.B.E., M.A., M.D., Hon. D.Sc., F.R.S., Prof. of Physiol.; Smith,* J. A., M.A., Prof. of Philos.; Snow, G. R. S., B.A.; Thompson, J. M., M.A., Home Bursar; Turner, C. H., M.A., Prof. of Exegesis; Wilson, H. A., M.A.; Wrong, E. M., M.A., * ‡ *Hist.*; Weldon, T. D., B.A., * *Litt. Hum.*; Titchmarsh, E. C., B.A.

Other Lectrs.: Waters, E. G. R., M.A., * *French.*

MERTON COLLEGE. Founded 1264. Warden—T. Bowman, M.A.

Fellows: de Beer, G. R., B.A., B.Sc.; Deane-Jones, I., B.A., * *Modern History*; Fyfe, W. H., M.A.; Garrod, H. W., M.A., *Class.*, *; Gill, E. W. B., O.B.E., M.A., B.Sc., Dom. Bursar; Goodrich, E. S., M.A., F.R.S., Prof. of Zool., etc.; Gordon, G. S., M.A., Prof. of Engl. Lit.; Green, F. W., M.A., * *Theol.*, ‡ *Div.*; How, W. W., M.A., Sen. Tutor, *Class.* and *Anc.* Hist., *; Lambert, B., O.B.E., M.A., * *Nat. Sc.*; Marsh, J. E., M.A., F.R.S.; Miles, Sir J. C., M.A., B.C.L., *Law*, *; Mure, G. R. G., M.A., * Sub-Warden; Smith, D. Nichol, M.A., Dean, Reader in English; Thompson, R. C., M.A.; Wyld, H. C. K., B.Litt., M.A., Prof. of Engl. Lit.

Other Lectrs.: Pidduck, F. B., M.A., D.Sc., Corpus, *Maths.*; Mowat, R. B., M.A. Corp., *Hist.*

NEW COLLEGE. Founded 1379. Warden—Rt. Hon. H. A. L. Fisher, M.P., M.A.

Fellows: Allen, Sir Hugh Percy, M.A., D.Mus., Professor of Music; Casson, Stanley, M.A.; Courtney, William Leonard, M.A.; Haldane, John Scott, M.A., F.R.S.; Hardy, G. H., M.A., F.R.S., Prof. of Geom.; Hayes, E. H., M.A.; Henderson, H. L., O.B.E., M.A., Dean, Dean of Arts, * *Classics*; Huxley, J. S., M.A., ‡ *Zool.*; Joachim, H. H., M.A., Prof. of Logic, Sub-Warden; Joseph, H. W. B., M.A., * *Philos.* and *Classics*; Legg, L. G. W., M.A., * *Modern Hist.*; Lightfoot, R. H., M.A., Junr. Bursar, * Dean of Div., *Theol.*; Manning, C. A. W., B.A., ‡ *Law*; Margoliouth, D. S, M.A., D.Litt.,

Prof. of Arabic; Matheson, P. E., M.B.E., M.A., * *Anc. Hist.* and *Classics*; Moyle, J. B., D.C.L.; Myres, J. L., O.B.E., M.A., Libn., Prof. of Anc. Hist.; Ogg, D., M.A., * *Modern Hist.*; Poole, E. G. C., M.A., D.Phil., * *Maths.*; Prickard, A. O., M.A.; Radcliffe, G. R. Y., M.A., Senr. Bursar, *; Salvesen, H. K., M.A., ‡ *Econ.*; Schuster, E. H. J., M.A., D.Sc.; Smith, A. H., C.B.E., M.A., * *Philos.* and *Classics*; Townsend, J. S. E., M.A., F.R.S., Prof. of Physics; Turner, H. H., M.A., D.Sc., F.R.S., Prof. of Astron.; Walden, A. F., M.A., * *Chem.*

Other Lectrs.: House, H. W., B.A., D.S.O., *Mod. Langs.*; Priestley, J. G., D.M., * *Physiol.*; Woodward, E. L., M.A., *Mod. Hist.*

Oriel College. Founded 1326. Provost—L. R. Phelps, M.A.

Fellows: Burney, C. F., M.A., D.Litt., Prof. of Interpret. of Holy Script.; Clark, G. N., M.A., * *Modern Hist.*; Cohn, E. S., B.A., ‡; Craigie, W. A., M.A., Prof. of Anglo-Saxon; Firth, Sir C. H., M.A., Prof. of Mod. Hist.; Franklin, K. J., B.A., *Nat. Sc.*; Graham, E., M.A., Dean, ‡; Hammick, D. Ll., M.A., * *Nat. Sc.*; Lewis, W. J., M.A., F.R.S.; Lyon, P. C., M.A., C.S.I., Treasurer; Richards, G. C., D.D., M.A. *; Ross, W. D., O.B.E., M.A., *; Simpson, P., M.A., ‡ *Engl. Lit.*; Tod, M. N., O.B.E., M.A., * Librarian; Webb, C. C. J., M.A., Prof. of the Philos. of the Christian Religion.

Other Lectrs.: Berthon, H. E., M.A., *French*; Hargreaves, E. L., B.A., *Econ.*; Jacobs, A. C., B.A., *Law*; Rogers, L. J., B.Mus., M.A., *Maths.*; Stallybrass, W. T. S., O.B.E., M.A., *Law.*

Pembroke College. Founded 1624. Master—F. H. Dudden, D.D.

Fellows: Burrowes, A. B., M.A., Dean, ‡ *Div.* and *Classics*; Collingwood, R. G., M.A., Librarian, *; Drake, H. L., M.A., * *Classics*; Ramsden, W., D.M.; Salt, L. E., M.A., Bursar.

Other Lectrs.: Berthon, H. E., M.A. Wad., *French*; Brett-Smith, H. F. B., M.A., *Engl.*; Chaundy, T. W., M.A. Ch. Ch., *Maths.*; George, H. J., M.A. Jes., *Nat. Sc.*; Williams, N. P., B.D., M.A. Exe., *Theol.*; Carrington, C. E., *Mod. Hist.*

The Queen's College. Founded 1340. Provost—J. R. Magrath, D.D.

Fellows: Allen, T. W., M.A., Sr. Tutor, Librarian; Bell, J., M.A., * ‡ *Classics*; Berrisford, E. A., M.A., Chaplain, ‡ Divinity; Chattaway, F. D., M.A., Ph.D., F.R.S., * ‡ *Chem.*; Cronshaw, G. B., M.A., Bursar; Elton, G., M.A., ‡ *Modern Hist.*; Hodgkin, R. H., M.A., * ‡ *Mod. Hist.*; House, H. W., D.S.O., B.A., ‡ *Mod. Langs.*; Hunt, A. S., M.A., D.Litt., Prof. of *Papyrol.*; Paton, H. J., M.A., * ‡ *Philos.*; Sayce, A. H., M.A., Hon. D.Litt.; Streeter, B. H., M.A., ‡ *Theol.*; Thompson, C. H., M.A., * ‡ *Maths.*; Walker, E. M., M.A., Pro-Provost, ‡ *Ancient Hist.*

Other Lectrs.: Brett-Smith, H. F. B., M.A., *English*; Douglas, C. G., C.M.G., B.Sc., D.M., *Physiol.*; Forbes, N., M.A., *Russian*; Hazel, A. E. W., C.B.E., B.C.L., M.A., *Law*; Salvesen, H. K., B.A., *Econ.*

St. John's College. Founded 1555. President—H. A. James, D.D.

Fellows: Applebey, M. P., M.B.E., M.A., B.Sc., Asst. Tutor, ‡ *Chem.*; Burney, C. F., D.Litt., Prof. of Interp. of Hoiy Scrip.; Costin, W. C., M.A., ‡ *Mod. Hist.*, Jr. Dean of Arts; Dermer, E. C., M.A., B.D.; Douglas, C. G., C.M.G., B.Sc., D.M., F.R.S., Senr. Tutor, ‡ *Nat. Science*, Asst. Tutor; Hall, F. W., M.A., Vice-Pres., Senr. Dean of Arts, * ‡ *Classics*; Hart-Synnot, R. V. O., D.S.O., O.B.E., M.A., Bursar; Last, H. M., M.A., ‡ *Anc. Hist.*, Libn.; Mabbott, J. D., B.A., B.Litt., ‡ *Philos.*; Poole, A. L., M.A., ‡ *Modern Hist.*, Asst. Tutor; Powell, J. U., M.A., Tutor, ‡ *Classics*; Pullan, L., D.D., Tutor,

* ‡ *Theol.*; Somerville, W., D.Sc., M.A., Prof. of Rural Econ.; Troup, R. S., C.I.E., M.A., D.Sc., Prof. of Forestry.

Other Lectrs.: Berthon, H. E., M.V.O., M.A. Wad., *French*; Hughes, A. M. D'Urban, M.A., *English*; Newboult, H. O., B.A., *Maths.*

TRINITY COLLEGE. Founded 1554–1555. President—H. E. D. Blakiston, D.D. (acting Estates Bursar).

Fellows: Green, M. H., M.A.; Higham, T. F., M.A., Dean, ‡ *Classics*; Hinshelwood, C. N., B.A., ‡ *Chem.*; Kirk, K. Escott, B.D., M.A., Chaplain and Lectr. in *Theology*; Landon, P. A., M.A., ‡ *Law*, Jr. Bursar; Liddell, E. G. T., B.M., M.A.; Ogilvie, F. W., M.A., ‡ *Econ.*; Patterson, M. W., M.A., * ‡ *Modern Hist.*; Price, H. H., B.A., B.Sc., ‡ *Philos.*; Weaver, J. R. H., M.A., * ‡ *Modern Hist.*, Librarian.

UNIVERSITY COLLEGE. Founded 1249. Master—Sir Michael E. Sadler, K.C.S.I., M.A.

Fellows: Allen, C. K., M.A., Prælector in *Jurispr.*, Dean; Bowen, E. J., M.A., Prælector in *Chem.*; Carritt, E. F., M.A., Prælector in *Philos.*, Librarian; Farquharson, A. S. L., C.B.E., M.A., Prælector, Sr. Tutor, Dean of Degrees, * *Litt. Hum.*; Grensted, L. W., B.D., M.A., Chaplain; Keir, D. L., B.A., Prælector in *Mod. Hist.*; Leys, K. K. M., M.A., *Modern Hist.*, *; Poynton, A. B., M.A., Prælector in *Greek*, Bursar; Sollas, W. J., M.A., F.R.S., Prof. of Geology; Stevenson, G. H., M.A., Prælector in *Anc. Hist.*; Walker, E. W. A., D.M., D.Sc., * Prælector in *Nat. Philos.*

Other Lectrs. and Asst. Lectrs.: Bosanquet, C. H., M.A., *Physics*; Carlyle, A. J., M.A., D.Litt., *Pol. Philos.* and *Econ.*; Douglas, J. A., D.Sc., M.A. Keb., *Geol.*; Ewert, A., M.A., *French*; Johnson, A. H., M.A., *Modern Hist.*; Morison, C. G. T., M.A., *Agric.*, etc.; Thomson, C. H., M.A. Qu., *Maths.*; Wilson, F. P., B.Litt., M.A., *Engl. Lit.*

WADHAM COLLEGE. Founded 1610. Warden—J. Wells, M.A.

Fellows: Bowra, C. M., M.A., ‡ *Classics*, Dean; Brabant, F. H., M.A., ‡ *Philos.*; Dixey, F. A., D.M., F.R.S., Wills Medical Fellow, ‡ *Physiol.*, etc., Sub-Warden and Bursar; Lennard, R. V., M.A., Librarian, * *Hist.*; Lindemann, F. A., M.A., F.R.S., Prof. of Expl. Philos.; Stenning, J. F., C.B., C.B.E., M.A., Senr. Tutor, ‡ *Div.*, *Hebrew*; Wade-Gery, H. T., M.A., * *Classics*, *Anc. Hist.*; Keeley, T. C., ‡ *Physics*; Cecil, Lord E. C. D. G., ‡ *Mod. Hist.*

Other Lectrs.: Berthon, H. E., M.A., M.V.O., *French*; Graham-Brown, G. F., M.A.; Segar, R., M.A., *Law*; Simpson, P., M.A., *English.*

WORCESTER COLLEGE. Founded 1714. Provost and Senr. Bursar—F. J. Lys, M.A.

Fellows: Bryan-Brown, A. N., M.A., ‡ *Classics*; Narborough, F. D. V., M.A., ‡ *Theol.*; Pickard-Cambridge, W. A., M.A., *‡ *Classics*; Roberts, P. E., M.A., Vice-Provost, *‡ *Mod. Hist.*; Somerset, H. V. F., B.A., ‡ *Mod. Hist.*; Wilkinson, C. H., M.A., ‡ *Engl. Lit.*, Dean, Librarian.

Other Lectrs.: Marriott, J. A. R., M.A., *Mod. Hist.*; Rogers, L. J., B.Mus., M.A., *Maths.*

ST. EDMUND HALL. Founded *c.* 1238. Principal—G. B. Allen, M.A., D.D.

Staff: Bell, J., M.A. Qu., ‡ *Classics*; Brewis, G. R., M.A., Senr. Tutor; Chattaway, F. D., M.A., F.R.S., ‡ *Chem.*; Emden, A. B., M.A., Vice-Principal, Bursar, * *Modern Hist.*; Simpson, D. C., M.A., D.D., ‡ *Hebrew*; Thompson, C. H., M.A., ‡ *Maths.*; Waters, E. G. R., M.A., ‡ *French*; * Fletcher, R. F. W., M.A., Chaplain, *English.*

* Tutor. ‡ Lecturer.

KEBLE COLLEGE. Founded 1870. Warden—B. J. Kidd, D.D.
Tutors: Reade, W. H. V., M.A., Librarian, *Litt. Hum.*, Sub-Warden; Gretton, R. H., M.A., *Hist.*; Jolliffe, J. E. A., M.A., *Hist.*; Owen, A. S., M.A., *Classics*; Parker, H. M. D., M.A., *Litt. Hum.*; Parkes, G. D., B.A., B.Sc., *Nat. Sc.*; Rice-Oxley, L., M.A., *Hist.*; Simpson, D. C., D.D., *Theol.* Lectr.: Dix, G. E. A., B.A., *Mod. Hist.*

NON-COLLEGIATE STUDENTS. Censor—J. B. Baker, M.A., Non-Coll.
Tutors and Lecturers: The Censor, *Modern Hist.*; Carlyle, A. J., D.Litt. Univ., *Engl.*; Chattaway, F. D., M.A. Qu., *Chem.*; Garabedian, D., M.A., *French*; George, H. J., M.A. Jes., *Chem.*; Graham, E., M.A. Oriel, *Theol.*; Kendrew, W. G., M.A., Non-Coll.; Knapp, C., D.D., *Theol.*; Lawson, F. H., M.A. Qu., *Jurispr*; Nicholls, A. W., M.A., B.Litt., *Mod. Hist.*; Richards, G. C., B.D., M.A. Oriel, *Classics*; Thompson, C. H., M.A. Qu., *Maths.*

CAMPION HALL. Master—J. H. Keane, M.A.

ST. BENET'S HALL. Master—P. J. McCann, M.A.

Recognized Societies of Women Students (v. p. 200)

LADY MARGARET HALL, founded in 1878 and opened in 1879; constituted under a Deed of Trust in 1893, incorporated 1913. *Principal*—Lynda Grier, M.A. *Tutors*—Evelyn M. Jamison, M.A., Vice-Principal; Janet Spens, M.A., D.Litt.; Helena C. Deneke, M.A.; Margaret G. Skipworth, M.A., Librarian; Mary Coate, M.A.; Agnes M. Ramsay, M.A.; Catherine M. Chilcott, M.A. *Secretary*—Christine Anson, M.A. *Bursar and House Treasurer*—Dorothy Harbottle. *Susette Taylor Research Fellow*—H. Waddell, M.A. Belf.

SOMERVILLE COLLEGE, founded as Somerville Hall in 1879. *Principal*—Miss E. Penrose, M.A. *Vice-Principal*—Hon. Alice Bruce, M.A. *Tutors*—Mildred Pope, M.A.; Hilda Lorimer, M.A.; Jane W. Kirkaldy, M.A.; Helen Darbishire, M.A.; Maude Clarke, M.A.; Doris Rhodes, M.A., Charlotte Young, M.A. *Lady Carlisle Research Fellow*—Mary Porter, B.Sc.; *Mary Somerville Research Fellow*—Evelyn E. S. Procter, M.A. *Librarian*—Vera Farnell, M.A. *Secretary and Treasurer*—Helene Reynard, M.A. *Bursar*—Beatrice Stonedale.

ST. HUGH'S COLLEGE, founded as St. Hugh's Hall, in 1886, was incorporated as St. Hugh's Coll. in 1911. *Principal*—* Miss B. E. Gwyer, M.A. *Tutors*—Miss J. W. Kirkaldy, M.A., *Natural Science*; * Miss E. E. Stopford, M.A., *English*; * Miss E. D. Ritchie, B.A., *Classics*; Miss M. Farrow, B.A., *Nat. Sc.*; * Miss H. M. Burnett, B.A., *English*; * Miss E. A. Francis, M.A. Lond., *French*; * Miss M. F. Perham, M.A., *Mod. Hist.*; Mrs. F. G. Gardner, M.A. Dub., *Maths.*; Miss D. Newcomen, M.A. *Bursar*—* Miss R. Metherell. *Librarian*—Miss W. Mammatt, M.A. *Asst. Bursar*—* Miss S. F. Salt. *Secretary*—Miss F. M. Alleyne. [* Resident.]

ST. HILDA'S HALL. See p. 220.

SOCIETY OF OXFORD HOME-STUDENTS, founded in 1879. The Governing Body is the Univ. Delegacy of Home-Students. *Principal*—Miss Burrows, M.A., 1 Jowett Walk, Oxford. There is a staff of 12 Tutors and 1 Lecturer. The number of members (excluding Oxford graduates) is at present limited to 220.
The students reside in their own homes or with relatives or in private

families in Oxford or, occasionally, in lodgings. Twelve reside in the Anglican convent of S. Thomas.

St. Frideswide's, Cherwell Edge, is a hostel maintained by the Roman Catholic Community of the Holy Child Jesus, and licensed by the Univ. for the reception of Home-Students, religious and secular.

GENERAL INFORMATION

CONSTITUTION — FACULTIES — ADMISSION — INCORPORATION — WOMEN STUDENTS—ADMISSION TO ADVANCED STANDING—AFFILIATED COLLEGES —TERMS—DEGREES—ARTS—B.LITT. AND B.SC.—ADVANCED STUDIES— THEOLOGY — LAW — MEDICINE — MUSIC — DIPLOMAS — COMMISSIONS IN H.M. FORCES—INDIAN CIVIL SERVICE—TRAINING OF TEACHERS— SCHOLARSHIPS—RHODES SCHOLARSHIPS—APPOINTMENTS COMMITTEE— LIBRARIES AND MUSEUMS—LABORATORIES—OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD—LOCAL EXAMINATIONS—EXTRA-MURAL STUDIES—PUBLICATIONS—EXPENSES.

CONSTITUTION. *Convocation*, consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine who have their names on the Univ. books, has the power of confirming or rejecting (but not of amending) Statutes which have passed Congregation. It also transacts much of the ordinary business of the Univ. by means of "Decrees." It confers honorary degrees and also degrees granted by Decree or Diploma. It sanctions petitions to Parliament, authorizes the affixing of the Univ. seal when necessary, and its members elect the Univ. representatives in Parliament. But no proposals can be made to it which have not been sanctioned by the *Hebdomadal Council*, which consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiration of his term of office), and Proctors and 18 other members (Heads of Houses, Professors, etc.) elected by Congregation. This Council takes the initiative in all the legislation of the Univ., except what is proposed by the General Board of the Faculties. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It has the power of adopting, rejecting, or amending legislation submitted by the Hebdomadal Council previously to its submission to Convocation. The *General Board of the Faculties* has power, after consultation with the Board of the Faculty concerned, to draft and send to Congregation through the Hebdomadal Council any proposals on matters connected with studies and examns. which require to be dealt with by Statute.

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They are not even, at all events directly, subject to regulations made by the Univ.; they manage their own property and elect their own Officers, and the Proctors have no power within their walls. In many matters, however, they and the Univ. recognize each other's regulations, and an intimate relation exists between them; the great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, and Lectrs., partly by the more numerous body of College Tutors and Lectrs. Altogether the teaching staff numbers approximately 300.

FACULTIES. Theology, Law, Medicine, Literæ humaniores, Modern History, Mediæval and Modern Languages, Oriental Languages, Natural Science. For Music and for Philosophy, Politics, and Economics, there are Boards of Studies.

ADMISSION to the Univ. (" Matriculation ") is without respect of sex, birth, age, nationality, or creed, and follows upon admission to a College or Hall or to the Society of Non-Coll. Students, or Society of Home-Students. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer * of the Society to which admission is desired; it should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College walls are desired. In 1924 steps were taken towards making the passing of an entrance examn. a condition of admission to matriculation.

The Colleges and Halls and the Society of Non-Coll. Students require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is ordinarily included.

Students from abroad (v. also Appendix XXIII.). The Secretary (H. S. Williamson, M.A., Indian Institute) of the *Delegacy for Oriental Students* is prepared to advise Indian and other oriental students, who should apply for admission through him.

To deal with enquiries from other students who wish to become members of the Univ. and whose home residence is outside Great Britain an *Adviser to Colonial and Foreign Students* (R. Truslove, M.A., 40 Broad St.) is attached to the Univ. Registry. He keeps a register of the vacancies at the various colleges, and applications for admission may be made through him.

INCORPORATION. Members of the Univs. of Cambridge and Dublin can be, under certain conditions, " incorporated " into this Univ., *i.e.* admitted to the same status and degree which they hold in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a College or the Censor of Non-Coll. Students. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. Previous to matricn. a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matricn. provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees (except B.D. and D.D.) under the same conditions as

* Balliol—The Tutor for Admissions; Qu.—The Pro-Provost; Non.-Coll. —The Censor, Non-Collegiate Buildings; in other cases—The head of the Society (v. *supra*).

those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund. The Delegacy for Women Students has been abolished.

ADMISSION TO ADVANCED STANDING OF STUDENTS FROM OTHER INSTITUTIONS: "JUNIOR" AND "SENIOR" STUDENTS. I. *Universities other than Indian.*—(*a*) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years may be admitted as a "Junior Student" provided that his course and the standard attained by him in any examns. proper to it shall have been approved. No course will be approved which does not include the study of 2 languages other than English, of which languages one must be either Latin or Greek. (*b*) Any person who has obtained a degree at his Univ., Degree and Univ. having been approved, may be admitted as a "Senior Student," provided that he shall have pursued at that Univ., or, if approved, at more than one Univ., a course extending over 3 years.

II. *Indian Universities.*—(*a*) Any student who shall have pursued at his Univ. a prescribed course extending over 2 years, and obtained the Degree of B.A. or B.Sc., may be admitted as a "Junior Student," provided that Degree and Univ. have been approved. No Degree will be approved which does not include the study of English and in addition of 2 of the following languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese, of which 2 either Latin or Greek or French or German must be one. (*b*) Any student who shall have pursued at his Univ. or, should the Hebdomadal Council in his case approve, at more than one Univ. a prescribed course extending over 3 years and obtained a Degree with 1st or 2nd Class Honours, may be admitted as a "Senior Student," provided that Degree and Univ. have been approved.

III. A *Junior Student*: (*a*) may reckon his 1st term as his 4th; (*b*) is not required to pass Responsions; (*c*) is entitled to supplicate for Degree of B.A. after having resided 6 terms and passed the 1st Public Examn. and either (1) obtained a place in the Class List of an Honour School of the 2nd Public Examn. or been allowed "ægrotat"; or (2) satisfied the Examiner in the 2nd Public Examn. in the Final Honour School of Nat. Sc. in Chem., Pt. I., or in the Final School of Agric. or of Forestry; or (3) obtained Honours in the 1st Public Examn., and subsequently passed the 2nd Public Examn.; or (4) if disqualified by standing from obtaining such Honours, shown such merit as would otherwise have entitled him to a place on the Class List.

A *Senior Student*: (*a*) may reckon his 1st term as his 4th; (*b*) is not required to pass Responsions or any part of the 1st Public Examn. or any Preliminary or Previous Examn. of the 2nd Public Examn.; (*c*) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having either (i.)—as above—(*c*) (1); or (ii.)—as above—(*c*) (4).

No Junior or Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

Members of the following AFFILIATED COLLEGES may claim the status of Affiliated Junior Student if they have pursued a 2 yrs.' course of study at their Coll. and taken Honours in an examn. thereon: St. David's Coll., Lampeter (3 yrs.' course with Honours may give admission to status of Senr. student); Univ. Colls., Nottingham, Reading, Southampton, Exeter; Exeter Diocesan Training Coll. The privileges of an Affiliated Junior Student are similar to but not identically the same as those of a "Junior Student."

TERMS. The Academical year, which begins in Oct. and ends in June, consists of 3 terms, each of some 8 weeks. Residence within the walls of a College or Hall, or in licensed lodgings,* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree except in Music. Full terms begin April 26 and Oct. 11, 1925, and Jan. 17, 1926.

DEGREES. B.A., M.A., B.Litt., D.Litt.; B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., D.M., M.Ch.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn. at Oxford are those of B.Litt., B.Sc., D.Phil., B.C.L., and B.D.

ARTS. Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll. and Hall, however, as well as the Delegacy of Non-Coll. Students, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(*a*) *Responsions.* The examn. may be passed before matricn., and most Colls. require it or an equivalent examn. to be passed before residence is begun. Names of candidates who have not been matriculated must be entered through an officer of the Society to which they intend to belong. The examn. includes 3 groups: I. (*a*) Latin, (*b*) Greek; II. (*a*) English, (*b*) French, (*c*) German, (*d*) Italian, (*e*) Spanish; III. (*a*) Maths., (*b*) Nat. Sc. In order to be deemed to have passed Responsions it is necessary to have passed either in both subjects of Group I. and in the 2 subjects in Group III., or else in one subject at least in each group, and in 4 subjects in all, including two languages other than English.

(*b*) The *1st Public Examn.* This consists of (1) Examn. in Holy Scripture, (2) Honour Classical Moderations, (3) Hon. Math. Modns., (4) Pass Modns., (5) Prelim. Jurisprudence, (6) Prelim. Mod. Hist., (7) Prelim. N.Sc., (8) Prelim. Agr., and (9) Prelim. Forestry In order to pass the Examn. a candidate must pass in (1) and in one of the other subjects.

(*c*) The *2nd Public Examn.* This consists of (*a*) a Pass School and (*b*) an Honour School. (*a*) contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in either *Agriculture* or *Forestry*. (*b*) includes the following, a class in any one of which is sufficient: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, or Egyptian); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Economics.

Under certain conditions members of other Univs. and officers not under 21 years of age who have held for not less than 3 years a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by

* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs. may be admitted to the status of "Service Student," and obtain exemption from Responsions and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. *supra*, p. 202). Analogous concessions are made in favour of Probationers for the Indian Forest Service who have obtained an approved degree at an approved Univ. and been admitted to the status of "Indian Forest Service Student." Natives of Asia, Egypt, or the Sudan, born of non-European parents, can apply for permission to offer a substitute for Latin or Greek in Responsions and the 1st Public examn.

The DEGREES B.LITT. AND B.SC., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford. Application to enter upon such a course may be made by any person over the age of 21 years who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (for the B.Litt.), not being a member of the Univ. of Oxford, (3) has obtained an Oxford diploma with distinction. Applications must in all cases be made to the Asst. Registrar through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the faculties of natural science and medicine, no probationary period is prescribed, and research may in exceptional cases be conducted elsewhere.

Of the same nature but of a higher standard is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 16).

To a student who, having kept residence for a period of not less than 3 terms, has completed a course of study or research for the B.Litt. or B.Sc. and embodied the results in a dissertation, or has pursued during such residence a course of study or research under the direction of the COMMITTEE FOR ADVANCED STUDIES, a *Certificate* may be granted by the Board of the Faculty or Board of Studies concerned or by the Committee for Advanced Studies, as the case may be.

The higher degrees, D.LITT. AND D.SC., instituted in 1900, are awarded for published work of sufficient merit.

THEOLOGY. The B.D. degree is open to candidates of over 21 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A., to persons who have, not less than 5 terms previously, passed all examns. for the Oxford B.A., and, under certain conditions, graduates of other univs.

The degree of D.D. is open to those who have been admitted to the degree of B.D. subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

LAW. The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to

graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

MEDICINE. The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 years, of which three are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 mos. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or on the Register of Non-Coll. Students for 20 terms.

Affiliated Colonial or Indian Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent Univ. examns.

MUSIC. The degree of B.Mus. is open to candidates who *either* (*a*) have been admitted to the degree of B.A. *or* (*b*) have (1) passed Responsions or an equivalent or a special Prelim. examn. for students of music, (2) satisfied the examiners in English or 1 of 6 language subjects in the Final Pass School, and (3) pursued either at the Univ. or at some approved institn. a course of musical study, approved by the Board of Studies for Music, extending over at least 2 yearly courses. All candidates must also pass 3 examns. in Music (the subject of one of which is the composition of a Musical Exercise) under conditions laid down by Statute. There is no residential qualification for the degree of B.Mus., but the conditions of admission to the various examns. make it necessary that the candidate's name should be on the books of his Coll. or Hall or of the Society of Non.-Coll. Students for at least 9 terms. A B.Mus. may qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

DIPLOMAS. Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained:

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.

Education, 1 yr. (or Vacation course, v. p. 205), Director of Training, 15 Norham Gardens.

Economics and Polit. Sc., Dr. A. J. Carlyle, 29 Holywell St.

Anthropology, 1 yr., The Secy., Committee for A., 40 Broad St.

Forestry, 1 year, The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., The Professor of R.E., School of R.E.

Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Asst. Registrar.

Open to Registered Medical Practitioners: Public Health and (also open to Registered Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K.) Ophthalmology, Asst. Registrar.

Certificates: Surveying or General and Regional Geog., 2 terms, Director, School of Geog.; Physical or Cultural Anthropology, 3 months, The Secy., Committee for A., 40 Broad St.; French or German; Advanced Study or Research (v. p. 203); Training for Social Work, The Secy., Social Training Committee, Barnett House.

The following has been approved as a Society for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ. : *Ruskin College.*

COMMISSIONS IN H.M. FORCES, v. Appendix I. Candidates must have resided for 3 yrs. at the Univ. and be in possession of a degree. Office of the Secy. to the Delegacy for Military Instruction—20 St. Michael's St.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The Department for the TRAINING OF TEACHERS (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see p. 187—Education. For the Univ. Dipl. in Educn. there is a 1 yr. post-grad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent at a secondary school away from Oxford. Students are also accepted for a 4 yrs.' course (v. Appendix XIX.).

A *vacation course* of 4 weeks (fee £7 : 10s.) is held annually in August, open without restriction to men and women. Students of this course who are graduates and who are teachers with 7 yrs.' experience may obtain the Univ. Diploma without further residence.

SCHOLARSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. There are several College Research Fellowships tenable by persons distinguished in Science or Lit. (who may be elected without examn.) on condition of prosecuting some definite work.

The General Board of Faculties has power to provide studentships for advanced study and research; and there are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

The **Rhodes Scholarships** were founded in 1902 under the will of the late Cecil John Rhodes. The value of each Scholarship is £300 a year, with an additional bonus for the present of £50 a year, and they are tenable at Oxford for 3 years, subject to approval from year to year by his College of the Scholar's progress and conduct. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that " in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship; and (4) his exhibition during schooldays of moral force of character, and of instincts to lead and to take an interest in his schoolmates."

The Dominions and Colonies. An annual Scholarship is assigned to each Province of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand; and in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at Grahamstown, in alternate years to the towns of Kimberley and Port Eliza-

beth, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 years.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will "broaden their view," "instruct them in life and manners," and "instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

United States of America. Two Scholarships are assigned under the will to each State. As the Scholarship is tenable for 3 years, there must be for each State 1 year out of every 3 in which there is no election. Of the 48 States, 32 elect each year, the remaining 16 holding no election. The reason given by Mr. Rhodes for founding the American Scholarships is his "desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn. of American Rhodes Scholars, is published quarterly by W. W. Thayer, Concord, N.H., $2 a year, 10s. in England.

Number actually in residence, 1923–24 (whole or part), 220—Studying Law, 57; Nat. Sc. and Med., 60; History, 22; Econ. (Diploma and B.Litt. or D.Phil.), 4; Litt. Hum., 9; Engl., 24; Theol., 7; Maths., 4; School of Phil., Polit. and Econ., 17; other subjects, 16.

Professions followed by Rhodes Scholars since leaving Oxford. Education, 264; Law, 209; Business and Industry, 85; Administration and Government Service, 59; Medicine, 54; Ministry, 32; Farming, 21; Social and Philanthropic Work, 12; Journalism and Publishing, 16; Forestry, 9; Scientific (Research), 9; Army, 8; Engineering, 9; Mining, 3; Unsettled or unknown, 26; Miscellaneous, 14.

General. Provision is now made under the Trust for the continuous residence at Oxford of 190 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 years' domicile; and must have 2 years' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Trust, Seymour House, Waterloo Place, London, S.W.1.

Among books dealing with the subject are: *The Rhodes Scholarships*, by Sir G. Parkin, Houghton, Mifflin & Co., Boston, and Constable, London, 1913, and *Oxford of To-day*: a manual for prospective Rhodes Scholars, Oxford Univ. Press, 1922.

Secretary to the Rhodes Trustees—Sir Edward Grigg, K.C.V.O., Seymour House, Waterloo Place, London, S.W.1. Local Secretaries: Oxford—F. J. Wylie, Esq., 9 South Parks Road, Oxford; *U.S.A.*—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa.; *Canada*—J. M. Macdonnell, Esq., 153 St. James St., Montreal; *Australia*—J. C. V. Behan, Esq., Warden's Lodge, Trinity College, Melbourne; *S. Africa*—P. T. Lewis, Esq., S. African Chambers, St. George's St., Cape Town.

The APPOINTMENTS COMMITTEE, together with its Consultative Committee, contains representatives of every College. It receives notice of (1) scholastic appointments; (2) Government appointments; (3) openings in Banking,

Industrial and Commercial firms; (4) miscellaneous posts. The *Secy.* is R. Truslove, M.A., Acland House, 40 Broad St. Telegraphic address—Appointments, Oxford; Telephone, 225 Oxford.

LIBRARIES AND MUSEUMS. The *Bodleian Library*, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,000,000 vols. (representing more than 2,000,000 separate literary pieces) and 40,000 MSS. Persons, other than graduates of the Univ., are admitted on presenting a recommendation from some one in a responsible position. The *Manual for Readers* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madan, F., *The Bodleian Library*, London, 1921, 2s. 6d.; *The Bodleian Quarterly Record* (1s. quarterly, obtainable from the Libn.).

A departmental *Law* library is housed in the Examination Schools.

The Taylorian Library of *Modern Languages and Literature*, 50,000 vols, comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals, etc., of Continental Societies of importance. The Radcliffe (Univ. Museum) consists very largely of books on Mathematics, Natural Science, and Medicine, and the Tylor *Anthropological* collection.

The Codrington Library (All Souls College) is especially rich in works bearing upon *Modern History and Law*. The Brand Library, also at All Souls, is a collection of books on *Political Economy and Science*. The Maitland Library, at the Examination Schools, is intended to assist advanced work and research in *Social and Legal History*. There are also the following: the Beit Library (*Colonial History*) and the Library of the *English School* at the Examination Schools; a *Geographical* Library (5000 vols.) and *Maps* (13,000 sheets) in Mansfield Rd.; and a Library of *Economics and Politics* at Barnett House.

The *Indian Institute* has 23,000 vols. representing ancient, mediæval, and modern India and including also Arabic, Armenian, Georgian, Turkish, Egyptian, Burmese, and Chinese works; Sanskrit and Prakrit MSS. (printed catalogue); all the leading Oriental journals in English, French, and German; and a Museum giving an historical synopsis of Indian life and customs.

The *College Libraries* include many important collections such as the *Russian and other Slavonic* books, 5000 vols., of Queen's; *History and Literature* MSS. of 17th Century, of Worcester; *Music and Early Scandinavian* collections of Christ Church. The MSS. in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press.

Art and Archæology. The Ashmolean, the earliest English Museum, formed 1600–1650, contains, in addition to a Library of *Art and Archæology*, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The Pitt-Rivers Museum has an *Anthropological* collection illustrating evolutionary history of material arts.

Zoology, Geology, Mineralogy (17,000 spec.), *Entomology* (Lepidoptera Collection illustrating mimicry, etc.), are all represented in the Univ. Museum.

LABORATORIES: Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics); Chemistry, Organic and Inorganic (several Colleges have labs. of their own, *e.g.*, Ch. Ch., Magd.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic; Queen's); Physiol.; Zool., with

small expl. garden; Entom., with extensive Collections and Library; Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography); Engineering; Forestry (expl. plantations and forest garden); Model Farm; Human Anat.; Path. and Bact.; two *Observatories*.

An *Imperial Forestry Institute* was established in 1924. It is controlled by a Board of Governors representing the Univ. and the Government departments (Colonial Office, Forestry Commission, etc.) concerned It provides post-graduate and specialized training, as well as revision courses for forest officers already serving, and forms a centre for research in regard to forest production. Practical instruction is given in various forest centres on the Continent.

There is an Institute for Research in *Agricultural* Economics which has prepared an Agr. Atlas of England and Wales, published by Ordnance Survey Dept. The Director edits the *Journal* of the R.A.S., England. The *School of Rural Economy* has been recognized by the Ministry of Agric. as an Advisory Centre for a Province which includes 3 counties. By arrangement with the Univ. of Bristol 3 other counties are also available for study. A survey of *Rural Industries* of England and Wales was completed by the School of Rural Economy in 1923. An Institute for Research in *Agricultural Engineering* has been provided in Oxford by the Ministry of Agric.

The OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions, Previous, Matricn. examns. of London and of the Northern English Univs., and the Prelim. examns. of various professional bodies, etc. The Regns. of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries: at Oxford—C. H. Wilkinson, M.A., Examination Schools; at Cambridge—T. G. Bedford, M.A., 61A St. Andrew's St.

LOCAL EXAMINATIONS are held in March, July, and Dec. at Oxford and elsewhere. Candidates successful in the School Certificate or Higher Local examns., or in the Higher School Certificate examn., are on certain conditions exempted from Responsions. The regns. may be obtained from the Secy. of Local Examns., Merton St. All the examns. are open to persons of both sexes.

EXTRA-MURAL STUDIES. There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy controlling the Dept. has two Committees, one for Univ. Extension Lectures and one for Univ. Tutorial Classes.

Univ. Extension Lectures. The system begun in Camb. was adopted by Ox. in 1878. Up to the end of the session 1923–24 the number of persons attending courses was over 651,000, and the number of students examined 29,815; 21 summer meetings had been held. Reading Univ. Coll. largely owes its origin to extension work. The following certifs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay; affiliation or Higher Certif. of Systematic Study, on a sequence of courses comprising 96 lectures *plus* a general examn.; Vice-Chancellor's, on same conditions as affiliation *plus* examn. in Elem. Maths. and 2 languages. The majority of the lectures are on historical, scientific, or literary subjects. Any Univ. Extension student who avails himself of all the advantages offered, including the Summer Meeting, can secure continuous and systematic instruction in

almost any subject for a yearly outlay not exceeding £10. Two Colls. (Ball. and Ch. Ch.) have elected Senior Extension Lectrs. to Fellowships or Studentships in view of their success in Univ. Extension work. Further information can be obtained from the Secy. to the Delegates for extra-mural studies, Acland House, Oxford (Rev. F. E. Hutchinson, M.A.). The next (biennial) Summer Meeting will be at Oxford in Aug. 1925, and the main subject of study will be "The Drama—Ancient, Mediæval, and Modern." Courses on Economic and Scientific subjects will be included.

Tutorial Classes are held in working-class districts under the supervision of the above-mentioned Committee. Students pledge themselves to a 3 yrs.' course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay about once a fortnight. The Organizing Secy. is E. S. Cartwright, M.A., Barnett House, Oxford.

A *Vacation Course for Foreign Students* is held biennially. An Experimental course on more advanced lines (in Mediæval History) was held in 1924. (See below—The Year 1923–24.)

PUBLICATIONS. *Calendar* (Nov.) 12s. 6d. net (includes Honours of each year since Oct. 1911. Earlier Honours given in *Historical Register* 1900, 10s. 6d. net, and its *Supplement*, 1900–1920, 10s. 6d. net, giving, in addition to class lists and Hon. lists, information regarding constitution, Scholarships and Prizes, Offices and their incumbents, etc.). *Responsions* Pamphlet (June), 6d. (Regns. for 1924–25 with dates of examns. and general information); *Preliminary Examination in Natural Science* (Regns. for 1922–24 and general information) 6d. net; *General Information* (admission, residence, examns. for B.A., etc.), 7d. post free; *Statutes and Decrees* (Oct.), 5s. net; *Examn. Statutes* (July), 3s. 6d. net; Pamphlet on *Advanced Study and Research* (Research Degrees, subjects of study, Libraries and Collections, Scientific Departments and Staffs), 1s. net; *Pocket Diary* for academic year (Oct.), 2s. 6d. net and 3s. 6d. net; *Resident Members*, with their addresses, 2s. 6d. net (term); *Medical Degrees and Diplomas*, 1s. net; Decennial Report, 1914–23, on work of *Oxford and Cambridge Schools Examn. Board*, 6d.; *Enactments* in Parliament concerning Ox. and Camb., Winchester, Eton, and Westmr., 2 gs. Oxford Univ. *Roll of Service*, 1920, with names (14,561) and records of members of the Univ. who served in the Mily. and Naval Forces during the War, 15s. net. *Oxford of To-day*, a Manual for Prospective Rhodes Scholars, ed. L. A. Crosby and F. Aydelotte, 1923, 8s. 6d. net; *Univ. Gazette* (official), 6d. weekly. All the above are obtainable from the Oxford Univ. Press and its branches. *Oxford Magazine* (during term), 1s.; *Isis* (during term), 6d. The *Ox. and Camb. Year-book and Directory*, Sonnenschein, 5s.; each part gives short records of living graduates. Numerous Histories of the Univ. and Colleges have been pubd. by the Ox. Hist. Soc., Hutchinson and Co., and others.

EXPENSES. "It is not possible to make any general estimate of the cost of a University course, which varies at different colleges, and depends upon the student's own means and tastes. It must suffice here to enumerate certain items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. . . . The total cost of living in college might perhaps be estimated at about £60 a term for a man who exercises reasonable care in his expenditure. At Keble College there is a fixed annual charge (at present £150), covering tuition, the rent of furnished rooms, board, and service. The necessary expenses of a non-collegiate student have been estimated at about £81 per annum inclusive, which would make it possible to obtain the B.A. degree after a 3 years' course for a total outlay of £267 : 10s. At the residential

Societies for Women Students an inclusive terminal fee is charged. This is about £50 a term, but varies slightly at the different Societies."—Extract from *General Information* pamphlet mentioned in preceding paragraph. The items specified are :—(1) Annual : Univ. dues, £4 : 10s. ; College tuition fee, £24 to £31 : 10s. ; room rent, £15 to £18 ; hire of furniture, £6 ; College clubs, £6 ; rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial : matricn., £4 ; College admission fee (usually £5, but often less) ; College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional : examn. fees, about £9 for B.A. (exclusive of Responsions, £3) ; degree fees (B.A., B.Litt., or B.Sc., £7 : 10s.).

What has been stated above regarding the difficulty of estimating expenses at Oxford applies equally to Cambridge. The *Student's Handbook to Cambridge*, 1924–25 (Cambridge University Press, 7s. 6d.), deals with the subject of expenses very fully, and concludes with the following remarks : " The total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £235, although on the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career. . . . It is of the utmost importance that the foregoing estimates should not be taken for more than they are worth. . . . The only safe guide to a student's expenditure is information supplied by the college itself at which he decides to enter." The detailed statements on which the above estimate of annual expenditure is based include " guesses " as to personal expenses which the Oxford estimate leaves out of account. The items are :—Univ. fees (capitation tax), £5 : 5s. ; College fees, £54 (tuition, £24 to £30 ; establishment charge, £18 to £21 ; College dues, £4 to £10) ; board and lodging, £110 (rooms and service, £21 to £50 ; food expenses, £38 to £87 ; fuel, £5 to £7 ; laundry, £4 : 10s. to £9) ; personal expenses, £67 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., and (£2 to £4 : 10s.) cap, gown, and surplice. The " occasional " fees are for examns. £8 (medical, £16 : 8s.), and degree fees, £5. The " additional " expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

THE YEAR 1923–24

BENEFACTIONS. Rockefeller Foundation, £75,000 towards building Laboratory for and equipment and staffing of a Dept. of Bio-Chemistry ; Viscount Bryce bequest for Research studentship in History subject to wife's life-interest (which Lady Bryce surrendered) ; Prof. Gilbert Murray, £300 p.a. for 6½ yrs. for Research studentship in Greek Literature ; Mrs. Jenkinson bequest, £2216 for J. Wilfred Jenkinson memorial lectureship in Embryology ; Forestry Commission and Colonial Office, £5000 p.a. towards maintenance of an Imperial Institute of Forestry ; R. W. ffennell, ruins of Godstow Nunnery with 20 acres of land ; Lewis Evans, scientific instruments and books, and Goldsmiths' Company, £1000, and Sir J. R. Findlay, £250 for expenses in connexion therewith ; J. C. Gawthern, gift for foundation of Archbishop Secker exhibition for poor students ; Anglo-Spanish Committee at Madrid, 3 " Howard " scholarships tenable at Residencia de Estudiantes ; Una Goodwin, £200 for endowment of annual prize for Home-students ; W. L.

Newman bequest, £500 for Bodleian; special grants by All Souls and Magdalen Colleges, £1250.

The Queen's College received a gift of £50,000 from Henry Laming for resident and travelling fellowships (modern languages). The Women's Colleges received gifts and a legacy (Mrs. Dicey, £500) amounting to £1500.

NEW BUILDINGS. V. *supra*—Rockefeller Foundation. Further space in Univ. Park set aside for extension of Science Depts.

HONORARY DEGREES. *D.D.*—Bishop of Grafton, Australia; Bishop of Bethlehem, Pa., U.S.A. *D.C.L.*—Viscount Cave; Lord Hugh Cecil; Lt.-Genl. Sir Chas. Harington; President Masaryk (Czecho-Slovakia); W. L. Mackenzie King (Prime Minister, Dominion of Canada); Lt.-Col. Sir Chas. H. Bedford; Prof. S. Riccobono (Palermo). *D.Litt.*—Prof. S. Alexander (Manc.); Prof. H. A. Giles (Camb.). *D.Sc.*—Admiral of the Fleet Sir H. B. Jackson; Sir Humphrey D. Rolleston; Dr. Paul Appell (Paris). *M.A.*—J. A. Gotch, Pres. R.I.B.A.; R. P. Blake (Harvard); G. Thorn-Drury; Lilian Baylis. The Encænia of 1925 will be on June 24.

OTHER DEGREES. D.D., 35; D.C.L., 2; D.M., 8; B.D., 31; B.C.L., 28; B.M., 34; D.Sc., 2; D.Phil., 17; B.Litt., 32; B.Sc., 18; M.A., 273; B.A., 920; D.Mus., 2; B.Mus., 4.

DEATHS. A. L. Smith, Master of Balliol, April 12; C. Leudesdorf, Aug. 10; Sir E. J. Trevelyan, July 29; H. J. Bidder, Oct. 19; F. H. Bradley, Sept. 18; J. E. Campbell, Oct. 1; W. H. Jackson, Feb. 21; A. A. Rambaut, Oct. 14; Dean Rashdall, Feb. 9; G. E. Baker, March 21; G. Wood, Aug. 3; Eleanor F. Jourdain, April 6.

LEGISLATION. Provision for exemption of "Senior Students" of Medicine from Preliminary Examns. in Nat. Sc. if they have passed equivalent examns. at other Univs.; creation of Delegacy for Extra-mural Studies (in place of Delegacy for Extension of Teaching); recognition of Central Welsh Board's School Certificate for exemption from Responsions; superannuation scheme for teaching and administrative staffs; regularization of methods of appointing Scientific Assistants; increase of certain official stipends; provision for recognition *pro tanto* of school certificates with "credit" in 3 out of 4 required subjects for Responsions; permanent establishment of office of Dean of Medical School; provision for exempting from qualifying examn. for B.D. candidates who obtained a First Class in Hon. School of Theology, and other changes in conditions for this degree; statute passed by Convocation for abolishing division of elected members of Hebdomadal Council into 3 classes—Heads of Houses, Professors, and Members of Convocation; resolutions passed by Congregation concerning an Entrance Examn. as a condition of matriculation. After the close of the year the regulations for qualifying for the degrees B.Litt., B.Sc., and D.Phil. were revised. Candidates for the B.Litt. are required to undergo a course of training in the method of research. The B.Sc. will in future be confined to the faculties of natural science and medicine. It will be possible to take the Ph.D. within two years from admission as an advanced student. Regulations for D.Litt. and D.Sc. were also modified.

RECOGNITION OF EXAMINATIONS HELD IN OTHER PARTS OF THE EMPIRE. Univ. of Tasmania Public Leaving Certificate, Transvaal Secondary School Certificate, and (since the close of the year) Cape Province Secondary School Senior Certificate, Univ. of Malta Matriculation, and B.A. and B.Sc. degree of an approved Indian Univ.

RELATIONS WITH OTHER UNIVS. OVERSEAS. Address of congratulation to

Univ. of Naples (700th anniversary); gift of Univ. press books worth £100 to Univ. of Tokyo (library of which was partially destroyed by earthquake).

VISITORS FROM ABROAD WHO LECTURED IN OXFORD. Prof. A. P. Brigham of Colgate Univ., New York; Prof. W. A. Noyes of Illinois; Dr. Morton Prince of Boston; Prof. E. Bourgeois of Paris; A. Thibaudet of Paris; Dr. P. Harting (Holland); Dr. A. Simonius of Basle; Prof. S. Riccobono of Palermo. Prof. Blake of Harvard came as a Tutor (History) for the year to Univ. College, his place at Harvard being taken first by K. K. M. Leys and then by D. L. Keir, both of Univ. College.

OTHER OUTSTANDING EVENTS. Recognition by the Ministry of Agric. of the Oxford School of Rural Economy as an Advisory centre; provision by the Ministry of an Institute for Research in Agricultural Engineering. Establishment of an Imperial Forestry Institute financed largely by the Colonial Office and Forestry Commission. In connexion with the Oxford School of Forestry it may be noted that of 39 candidates who in 1923 satisfactorily completed the Forestry Diploma course 38 had by Feb. 1924 obtained forestry appointments in various parts of the Empire, 37 under government and 1 in a Canadian firm.

NUMBER OF STUDENTS: Working for B.A. degree—men 2964, women 645, total 3609; working for degrees in Law, Medicine, and Divinity—m. 137, w. 13; working for degrees of B.Litt., B.Sc., and D.Phil.—m. 164, w. 34; Diploma Students—m. 142, w. 49; not working for any Degree or Diploma—15. Total number of students in residence—m. 3422, w. 741, total 4163. Successful candidates in the Final Honour Schools: men 665, women 179, namely—Litt. Hum., 120, 6; Maths., 18, 0; Nat. Sc., 107, 9; Jurispr., 102, 0; Mod. Hist., 174, 74; Theol., 38, 2; Orient. Langs., 5, 0; Engl. Lang. and Lit., 45, 45; Mod. Langs., 23, 33; Philos., Politics, and Econ., 33, 10.

LOCAL EXAMINATIONS, 1923. Candidates: Higher, 219; School Certificate, 11,168; Junior, 4171.

UNIVERSITY EXTENSION WORK. 683 lectures distributed in 101 courses at 74 centres, regularly attended by over 9000 persons. Of the courses 30 were in History, 29 in Lit., 7 in Econ., 19 in Art and Archæology, 8 in Nat. Sc., 3 in Music, 2 in Psychology, 2 in Geography, 1 in Political Science. 19 full Tutorial Classes and 3 preliminary courses were held with an average attendance of 376. It is proposed to hold the usual biennial Summer Meeting in 1925, when the main subject of study will be the Drama. Courses on Economic and Scientific subjects will be included.

The fifth (biennial) Vacation Course for Foreign Students was attended by 229 students (127 men, 102 women). The largest number came from Germany, Sweden, France, Switzerland, Austria, and Holland; 16 other countries were represented, including new states like Latvia, Lithuania, and Jugo-Slavia.

A Vacation Course on more advanced lines for a restricted number of qualified students was held in Mediæval History. The first fortnightly part was attended by 38 students, the second by 36, and 20 of these were present for the whole month. Of the 54 students (25 men, 29 women) attending either part of the course, 22 were British subjects and 32 were from the United States. The Delegates were fortunate in obtaining the services of many distinguished historical scholars, who were generous of their time in giving advice to individual students. It is probable that a similar course may be held biennially.

THE UNIVERSITY OF SHEFFIELD

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G.

PRO-CHANCELLORS—H. K. STEPHENSON, D.S.O., LL.D., D.L.; Sir WM. E. CLEGG, C.B.E., LL.D.

VICE-CHANCELLOR—Sir W. HENRY HADOW, C.B.E., M.A., D.Mus., LL.D.

TREASURER—D. VICKERS, D.Eng.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A.

LIBRARIAN—A. P. HUNT, B.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Anatomy [A. Jackson Prof.
Patten, C. J., M.A., M.D., Sc.D. Dub., F.R.A.I.
Cobb, J. H., M.B., Ch.B., B.S. Lond., F.R.C.S. (also Lectr. in Surg. Anat.) Lectr.
Naish, Mrs. Lucy, M.B. Lond. (Osteology) Lectr.
4 Demrs.

Architecture
Harrison, H. St. J., A.R.I.B.A. Lectr.
Leighton, H. B., A.R.I.B.A. Asst. Lectr.
2 Hon. Lectrs. for Evening Courses.

Art, v. Civic

Biology, v. Zool. and Botany

Botany [Lectr.
Bentley, B. H., M.A. Ox., F.L.S.
Cole, L. W., B.Sc. Lond. Asst. Lectr. & Demr.

Chemistry
Wynne, W. P., D.Sc. Lond., F.R.S., F.I.C. Firth Prof.
Tryhorn, F. G., M.Sc. Liv. (Phys. C.) Lectr.
Bennett, G. M., M.A. Camb., M.Sc., Ph.D. Lond. Lectr. (Organic C.).
Turner, Emily G., M.Sc. Asst. Lectr.
Bennett, Dorothy M., M.Sc. Asst. Lectr.
Smith, T. B., B.Sc. Lond. Asst. Lectr.
Chapman, A. W., M.Sc. Lond. Demr.
Wyatt, W. F., M.Sc. Demr.

Civic Art
Rothenstein, W., M.A. Prof.

Classics
Forster, E. S., M.B.E., M.A. Ox., F.S.A. (Greek) Prof.
Summers, W. C., M.A. Camb. (Latin) Firth Prof.
Whitehead, Florence, M.A. Manc. Lectr.
Tredennick, G. H. P. P, B.A. Camb. Lectr.

Dentistry, v. *infra*

Economics
Knoop, D., M.A. Manc. Prof.
Beales, H. L., M.A. Manc. Lectr.
Jack, T., M.A. Glas. Lectr.

Education

Turnbull, G. H., M.A. Liv., Ph.D. Bonn — Prof.
Vickers, W., M.Sc., M.Ed. Manc. — Lectr.
King, Etheldreda, B.A. Lond. — Lectr.
Bone, Woutrina A., B.A. — Lectr.
Bradford, E. J. G., M.Sc. Lond. — Lectr.
Thompson, J. Ridley, M.Sc. Durh. — Lectr.

Engineering, Mechanical

Lea, F. C., D.Sc. Lond., M.I.C.E., M.I.M.E., A.R.C.S. — Prof.
Boulden, F., B.Sc. Lond., M.Eng., M.I.Mech.E., A.M.I.C.E. — Senr. Lectr.
Kershaw, J. W., M.Sc. Manc., M.Eng. — Senr. Lectr.
Wall, T. F., D.Sc. Vict., D.Eng. Liv. — Lectr. in Mech. and Elec. Research.
Hibbins, W. G., B.Sc. Lond., B.Eng., A.M.I.C.E. — Lectr.
Waite, C. W., B.Sc. Lond. — Lectr.
Davies, H. J., B.Sc. Lond. — Lectr.
Chappell, A. J., B.Sc. Lond., A.M.I.C.E. — Asst. Lectr.
Burnet, W. — Asst. Lectr. & Demr.
Turner, F. C., M.Eng., A.M.I.E.E. — Asst. Lectr. & Demr.
Gulliver, G. C. — Demr.
Colburn, J. — Head of Woodwork Dept.

Engineering, Civil

Husband, Joseph, M.Eng., M.I.C.E., M.Am.Soc.C.E., M. French S.C.E., F.R.C.Sc.I. — Prof.
Snelgrove, E. C., M.I.Struct.E. — Lectr.

Engineering, Elec. [Lectr.

Crapper, E. H., M.Eng., M.I.E.E.

Asst. Lectrs.:

Hainsworth, C. H., A.M.I.E.E.
Hunt, F. O., A.M.I.E.E.
Joyce, T. C., B.Sc. Lond. & Bris., A.M.I.E.E. — Asst. Lectr. & Demr.

Engineering, Mining [Prof.

Hay, D., B.Sc. Lond., A.M.I.C.E.
Statham, I.C.F., B.Eng., F.G.S. — Lectr.
Bevan, E. — Lectr.
Cooke, W. E., B.Eng. — Research Asst.

English Lang. and Lit.

Morgan, A. E., M.A. Dub. — Prof.
Jones, J. D., M.A., B.A. Lond., Ph.D. Berl. — Lectr. (Eng. Lang.).
White, H. M. O., M.A. Dub. — Lectr.

French

Baker, A. T., Litt.D. Camb., Ph.D. Heid. — Prof.
Larg, D. G., M.A. Aberd. — Lectr.
Morand, P., L. ès. L., Bordeaux — Asst. Lectr.

Geography

Brown, R. N. Rudmose, D.Sc. Aberd. — Lectr.
Garnett, Alice, B.A. Lond. — Asst. Lectr.

Geology [Sorby Prof.

Fearnsides, W. G., M.A. Camb.
Wilcockson, W. H., M.A. Camb. — Lectr.
Lewis, H. P., B.A. Camb. (Asst. Lectr. in Mining G.).

German

Willoughby, L. A., D.Lit. Lond., Ph.D. Vienna — Lectr.

History

Appleton, H. W., M.A. Ox. — Prof. (Ancient H.).
Black, J. B., M.A. Glas. and Ox. — Prof. (Mod. & Const. H.).
Ward, E. H., M.A. Camb. — Lectr. (Eccl. H.).
Fieldhouse, H. N., B.A. Ox., M.A. — Lectr. (Modern and Const. H.).
Lewis, N. B., M.A. Manc. — Lectr. (Modern H.).

Law [Prof.
Trotter, W. F., K.C. (Scot.), LL.D., M.A. Camb., Barr.-at-Law
Lias, W. J. (Judge) Prof. Internat. Law.
Metcalfe, O. K., M.A., LL.M. (Pub. and Com. L.), Barr.-at-Law Lectr.
Renwick, J., B.A., LL.B. Camb. Asst. Lectr.
Downing, F., A.I.C.A. Tutor in Trust Accounts, etc.

Mathematics
Daniell, P. J., M.A., Sc.D. Camb. Town Trust Prof.
Stewart, C. A., M.A., B.Sc. Glas., B.A. Camb. Lectr.
Cox, R. R. S., B.A. Camb. Asst. Lectr. and Tutor and Curator of Observatory.
Bryan, W. E., M.A. Camb. Asst. Lectr.
Baxter, E. F., B.A. Camb., M.Sc. Lond. Asst. Lectr.
Saynor-Thompson, R., B.Sc. (for Engin.) Lectr.

Medicine, v. *infra*

Metallurgy, v. also Tech.
Desch, C. H., D.Sc. Lond., Ph.D. Wurz., F.R.S., F.I.C. Prof.
Knowles, F. K., M.Met. (also in Dental M.) Lectr. Sen. Lectr.
Ibbotson, F., B.Sc. Lond., D.Met., F.R.C.Sc.I., F.I.C. (also in Dental M.) Lectr. Sen. Lectr.
Wreaks, J. H., B.Met. Lectr.
Orme, F., M.Met. Lectr.
..... Lectr. (Electro-M.).
Percival, R. T. Demr.
Gregory, E. Demr.

Mining, v. Engin., Geol.

Music [Lectr.
Linfoot, G. E., B.Mus., B.Sc. Lond.

Philosophy [Lectr.
Laing, B. M., M.A., D.Litt. Aberd.

Physics
Milner, S. R., D.Sc. Lond. and Bris., F.R.S., F.I.P. Prof.
Southerns, L., M.A. Camb., B.Sc. Lond. Lectr.
Lawson, R. W., D.Sc. Durh., F.I.P. Lectr.
Mathews, Irene M. Asst. Lectr.
Clarke, J. R., M.Sc., F.I.P. Asst. Lectr.
Evans, Morgan H., B.Sc. Wales Asst. Lectr.

Physiology
Leathes, J. B., M.A., M.B., B.Ch. Ox., F.R.C.S., F.R.C.P., F.R.S. Prof.
Eaves, Eliz. C., B.Sc., M.B., B.S., D.P.M. Lond. Lectr.
Imrie, C. G., M.D. Westn., Ont., M.R.C.P. Lectr.
Clark, G. A., M.D. Durh. Lectr.

Demrs.:
Platt, Robert, M.D.
Lister, C. W. A., M.B., Ch.B.
.....
Mellanby, Mrs. (Dental Hist.)

Public Health, v. Medicine

Russian
Birkett, G. A., M.A. Liv. Lectr.

Spanish [Hughes Lectr.
Birch, J. N., B.A. Lond.

Technology, Fuel [Prof.
Wheeler, R.V., D.Sc. Manc., F.I.C.
Batley, W. A., M.Sc. Manc. Lectr.
Wigginton, R., B.Sc. Lond., A.R.C.S. Lectr.
Beet, A. E., B.Met. Demr.
Rees, W. J., B.Sc. Tech., F.I.C. Lectr. in Refractories.
Etherton, S. L. B. Research Asst.

Technology, Glass
Turner, W. E. S., D.Sc. Lond., M.Sc. Birm., F.I.P. Prof.
English, S., M.Sc., A.I.C. Lectr.
Cousen, A., B.Sc., A.R.C.S., A.I.C. Asst. Lectr. & Demr.

Research Assts.:
Dimbleby, Violet, B.Sc.
Firth, Edith M., B.Sc.
..... Demr.

Zoology
Denny, A., M.Sc., F.L.S. (also Prof. of Biol.) Prof.
Grove, A. J., B.A. Camb., D.Sc. Birm. Lectr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Dermatology and Radiology
Morrell, R. A., L.R.C.P., M.R.C.S. (Rad.). Lectr.
2 other Clinical Teachers.

Diseases of Children
Leader, H., M.B. Lond. Lectr.
5 other Clin. Teachers.

Dis. of Ear, Nose, and Throat
Wilkinson, G., B.A., M.B., B.Ch. Camb., F.R.C.S.
Lectr. in Aural Anat. and History of Med.
1 other Clin. Teacher.

Diseases, Infectious [Lectr.
Williams, E. H., M.D. Brus., M.R.C.S., L.R.C.P., D.P.H.

Diseases, Mental [Lectr.
Vincent, W., M.D., B.S. Durh.
1 other Clin. Teacher.

Forensic Medicine
Carter, G., M.B., Ch.B. Manc., D.P.H. Lond. Lectr.

Medicine
Hall, A. J., M.A., M.D. Camb., F.R.C.P. Prof.
Naish, A. E., M.A., M.B., B.Ch. Camb., F.R.C.P. Lectr.
Barnes, A. E., M.B. Lond., M.B., Ch.B., F.R.C.P. Lectr.
Skinner, E. F., M.A., M.B., B.Ch. Camb., F.R.C.P. Tutor
2 other Clin. Teachers.

Obstetrics and Gynæcology
Phillips, Miles H., M.B., B.S. Lond., F.R.C.S. Prof.
King, W. W., M.B., Ch.B. Bris., F.R.C.S. Lectr.
Stacey, J. E., M.D., B.S. Lond., M.B. Lectr. (Gyn. Anat.).

Ophthalmology
Pooley, G. H., B.A. Camb., F.R.C.S. Eng. & Edin. Lectr.
Snell, H. C., B.A., M.B., Ch.B. Camb. Lectr. (O. Anat.).
2 other Clin. Teachers.

Pathology, v. also Surg.
Douglas, J. S. C., M.A., D.M., B.Ch. Ox., M.Sc. Birm.
Joseph Hunter Prof.
Simson, F. W., M.B., Ch.B. Edin. Lectr.
Tingle, Clara D., M.B., Ch.B. Demr.
Edington, J. W., M.D., D.P.H. Edin. Dir. of P.H. Bact. Lab.
Yates, A. G., M.A., M.D. Edin. (Lectr. in Med. Anat.) Demr.
Guest, D., M.B., Ch.B.
Asst. Bacteriologist.
Gleave, Humphrey H., M.B., Ch.B. Leeds
Demr. and Asst. Pathologist to Royal Infirmary

Pharmacology
Mellanby, E., M.A., M.D. Camb. Prof.
Southgate, H. W., M.B., B.S., B.Sc. Lond. Lectr.
3 Research Assts.

Public Health
Wynne, F. E., M.B., B.Ch. Dub., D.P.H. Manc. Prof.
Anderson, A., M.B. Aberd., D.P.H. Demr.

Surgery
Connell, A., Ch.M., F.R.C.S. Edin. (also Asst. Lectr. and Demr. in Path.) Prof.
Simpson, G., F.R.C.S. Lectr.
Cuff, A., B.A., M.B., B.Ch. Camb., F.R.C.S. Lectr.
Finch, E. F., M.D., M.S. Lond., F.R.C.S.; Asst. Cur. of Path. Museum) Lectr.

Mouat, T. B., M.D., Ch.B. Edin., F.R.C.S. Tutor.
3 other Clin. Teachers.

Tuberculosis [Lectr.
Rennie, J., M.D. Aberd., D.P.H.

Vaccination [Lectr.
Chisholm, J., M.B., Ch.B. Edin.

Dental Science, v. also Met., Physiol.

Law, W. J., L.D.S., R.C.S. (D. Anat. and Physiol.) Lectr.
Froggatt, G. H., L.D.S., R.C.S. (D. Mech. and D. Surg.) Lectr.
Stokes, P. S., L.D.S., R.C.S. (D. Surg.) Lectr.
Watson, C. T., L.D.S., R.C.S. (Orthod.) Lectr.
Barron, D. C., M.D., Ch.B. Edin. (Med. for Dent. Students) Asst. Lectr.
Skerritt, J. H., L.D.S., R.C.S. (Op. Dent. Surg.) Lectr.
Drabble, H. S., M.R.C.S., L.R.C.P. Anæsthetist.
4 other Clin. Dental Teachers.

Adult Education

Tutors: 6 members of the Staff and 4 others.

AFFILIATED INSTITUTIONS

BARNSLEY TECHNICAL SCHOOL and SCUNTHORPE CENTRAL SCHOOL AND EVENING TECHNICAL SCHOOL. Students proceeding from "Affiliated Institutions" to the Univ. to take courses for an Honours degree in or for an Associateship in Engineering or Metallurgy may receive certain concessions.

GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

LIBRARY, 75,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H. Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth century tracts, plays, etc. (Sir Chas. Firth's); 318 current periodicals. Also Special Applied Science and Glass Technology Departmental collections.

RESEARCH DEPARTMENT LABORATORIES include Engineering (mech., civ., and mining), with complete illustrative power-plant, air-compressors, hydraulic appliances, testing machines, special apparatus for high temperature and repeated stress testing, high-speed steel tool-testing lathe, etc., the machine-tool branch being a special feature; Edgar Allen laboratory specially equipped for electrical and magnetic researches and the Jonas laboratory for researches in connexion with materials; Electro-tech. (lighting, traction, power transmission, mining, electro.-chem.), all provided with continuous and alternating currents, provision being made for 12 different combinations for parallel-running; Metallurgical, with plant for experimental melting of steel, including 3-ton Siemens open-hearth furnace; ½-ton electric arc furnace, cupola, Kjellin induction furnace, and Ajax-Northrup high-frequency induction furnace, crucible steel melting house, micrographic and recalescence laboratories, specially equipped laboratory for electro-deposition of metals; Non-Ferrous,

equipped for the lighter Sheffield trades; Glass Technology model factory for dealing with scientific study of glass manufacture on a large scale; Fuel Technology, including an experimental gas-producer, run in connexion with the steel-melting furnace of the metallurgical department, coal-cleaning plant, and specially equipped laboratories for research on coal, combustion, and flame.

OBSERVATORY with 6¼" equatorial. HOSPITALS available for clinics include 2 general (517 beds), 3 special (751), and Lunatic Asylum.

FACULTIES. (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Department), (4) Law, (5) Engineering (Depts. of Mech., Elec., Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous and Non-Ferrous) Deans: (1) Prof. Knoop (Economics), (2) Prof. Wynne (Chemistry), (3) Prof. Douglas (Pathology), (4) Prof. Trotter, (5) Prof. F. C. Lea, (6) Prof. Desch. There is a University Training College Department for Teachers for elementary, secondary, and continuation schools.

MATRICULATION. See Appendix XXI.

DEGREE COURSES. 3 yrs.—B.A. (with Honours in Archit.—5 yrs., including 2 in an Architect's office), B.Sc., LL.B. (Graduates of a Univ. of the U.K. need only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved institution), B.Met. (3 yrs.' evening courses may be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs.), B.Sc.Tech. ("Sandwich" course 4 yrs.); 5 yrs. (including 3 in the Univ.)—M.B., Ch.B.; 5½ years—B.D.S.

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, and Leipsic have been recognized in the Faculty of Arts and the Univ. contributes towards expenses of undergraduates spending a term there. Courses in Chem., Phys., and Zool. at Univ. Coll., Nottingham, qualify for entrance for the 1st M.B., Ch.B.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

HIGHER DEGREES. Obtainable by Bachelors of 1 yr.'s standing—M.A., M.Sc., LL.M., M.Eng., M.Sc.Tech., M.Met., M.D., Ch.M., M.D.S.; 5 yrs.—Litt.D., D.Sc., LL.D., D.Eng., D.Sc.Tech., D.Met.; open to graduates in Arts of any Univ. of the U.K. after 2 yrs., to graduates of Faculties other than Arts after 3 yrs., of advanced study or research in Sheffield—M.A.; open to graduates in Science of any Univ. of the U.K. after 2 yrs. of advanced study or research in Sheffield—M.Sc.; Ph.D., v. p. 16.

DIPLOMAS. Archit., 5 yrs. (including time spent in an Architect's office); Modern Lang. Teaching (graduates in Arts or others of similar attainments in the Lang.), 1 yr. course; Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); Domestic Science, 2 yrs.; L.D.S., 4 yrs.; Glass Technology, 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.); Associateship in Iron and Steel or Non-Ferrous Metallurgy, 3 yrs. (evening students, 4 yrs.); Mining, 4 yrs. (6 mos. each year in Colliery and 6 in Univ.; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs.' total training, including the time spent in the Univ.); Fuel, 4 yrs. (for those with 1 yr.'s experience in a Works Fuel Dept., 3 yrs.); exemption from first yr. in special cases.

Certificates in Architecture (3 yrs.); Works Pupils in Engineering (3 yrs.); Mining (2 yrs. Saturday afternoons); Electricity applied to Mining (2 yrs. Saturday afternoons); Glass Technology (3 yrs.).

FEES. Matricn. £2. Registn. 21s. or 25s. Tuition for degree courses (approximate): B.A., £23 : 15s. p.a.; B.Sc., £30 p.a.; LL.B., about 11 gs. p.a.; B.Eng., B.Met., B.Sc.Tech. (Glass or Fuel), 37½ gs. p.a.; "Sandwich" course for B.Eng., 4 yrs., £29 : 10s. p.a.; M.B, Ch.B., £190 for 5 yrs.' course, including hospl. fees; B.D.S., £225 for 5 yrs.' course including Mech. Dent. Examns., Interm., £2; Final, Pass Degree, £2; Honours, £3 (M.B., Ch.B. or B.D S. examns., £6 each of 3). Degree Fee, £5.

SCHOLARSHIPS, ETC., FOR GRADUATES. Sorby Research Fellowship (administered by Royal Society) for research in Sheffield Labs., about £500 p.a. for 5 yrs., renewable; Alfred Tongue Scholp., £100 for 1 yr. for research in Engin., Met., or Chem.; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met.; 4 Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals; Cutlers' Company Scholp., £100 p.a. for 2 yrs.; several others of from £50 to £100.

Herbert Hughes *Travelling Scholarships* in Spanish, £25 each, are for one month of Study in Spain during the long vacation.

RESIDENCE, ETC. Stephenson Hall, for men; fees per session, £90. Univ. Halls for women, Oakholme, Tapton Cliffe, and Endcliffe House, £51 to £75 per session. A list of supervised Lodgings is maintained; board and lodging cost from 30s. to 50s. per week. Athletics ground, 15½ acres. The Union Rep. Council takes a leading part in the Social life of the Univ. Separate Students' Unions for men and women.

There is an OLD STUDENTS' assocn. which publishes periodically lists giving addresses, occupations, honours, etc.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Educn. Lectures) with the Sheff. Educn. Committee. See also Appendix XXX.

Evening Classes are conducted under the direction of the Senior Lecturer in Mechanical Engineering, in General Science, Engineering, Metallurgy, Mining, Fuel, and Glass Technology, Building and Manual Training, during the 6 months, Oct. to April. 24 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying for degrees, etc., see v. *supra*—Degrees, Diplomas.

Evening Classes are also provided in Greek, Russian, Spanish, Philosophy, Economics, Music, and Architecture.

PUBLICATIONS. *Calendar* (Oct.), 5s.; *Floreamus*, a Chronicle pubd. at end of each term, annual subs., 2s. (the 11 completed vols. give a full history of the Coll. and Univ., with portraits, etc.); Annual Report in Nov.

THE YEAR 1923–24

BENEFACTIONS. Sir Albert Hobson bequest, £5000 (and residuum of estate); Lord Bearsted, £10,000 for Metallurgical Dept.; Donations to New Buildings and Endowment Fund, £22,545.

NEW BUILDINGS. Two research laboratories for Mech. Engineering and one for Metallurgy; new accommodation for Dental Dept.

NEW POSTS. Chair of International Law; Lectrs. in English Language,

Physiology, History of Medicine, Radiology, Operative Dental Surgery; Asst. Lectrs. in Geography, Medicine for Dental Students, Law; Tutor in Trust Accounts and Book-keeping.

HONORARY DEGREES. *Litt.D.*—Very Rev. W. R. Inge, Sir H. J. Newbolt; *D.Sc.*—Horace Lamb, E. H. Starling; *LL.D.*—Lord Bearsted, R. Styring; *M.A.*—Rev. G. H. McNeal.

OTHER DEGREES. B.A., 48 (including women—40); B.Sc., 38 (women—9); M.B., Ch.B., 24 (w.—4); B.Eng., 13; B.Sc.Tech., 3; B.Met., 10; Masterships, 77 (w.—25); M.D., 1; Ph.D., 4.

STUDENTS, full-time, taking a curriculum for a first degree: Arts, 167 (including women—127); Pure Science, 141 (women—47); Med., 80 (w.—20); Law, 8 (including 1 woman); Engin., 52; Mining, 10; Glass Tech., 3; Fuel, 8; Metall., 20; full-time, taking curriculum for first diploma, 185 (w.—59); part-time, 33. Post-graduation, full-time, 23 (w.—2); part-time, 11 (w.—2). Other students, 1415. There were 35 full-time students whose homes are in other countries. Scholarship holders who studied abroad: in France, 1; in Spain, 4; in Prague, 1. Three Honours students spent a term in France.

RECOGNITION OF COURSES. Barnsley Technical School has been recognized as an institution, education at which, in the subjects Maths., Physics, Chem., qualifies a student who intends to read for an Honours B.Sc. degree, to take the Interm. B.Sc. examn. in those subjects at entrance.

RETIREMENT. Emeritus Prof. G. C. Moore Smith (English), succeeded by Prof. Morgan, formerly of Univ. College, Exeter. RESIGNATIONS: J. D. Craig (Classics), to accept post at the Univ. of St. Andrews; G. E. G. Catlin, Lectr. in History, appointed Fellow and Asst. Prof. of Polit. Sc. at Cornell Univ.; Marjory F. Perham, Lectr., appointed History Tutor at St. Hugh's, Oxford; C. D. Carus Wilson, Lectr. in Archit.; J. Kenner, Lectr., appointed Prof. of Organic Chemistry in the Univ. of Sydney; R. Platt; F. G. Mordaunt; A. A. Fordham, Lectr., appointed to charge of Civil Engineering Dept., Swansea Univ. College; M. Parkin, Demr. and Research Asst., joined the staff of Messrs. Barr and Stroud; A. G. Lobley.

VISITORS FROM OTHER UNIVS. Prof. Grant Robertson, Prof. Eddington, Prof. Pollard. Dr. Foster Bain of the United States Bureau of Mines lectured on Mine Rescue work.

UNIVERSITY EXTENSION WORK. 37 three-year tutorial classes. Vacation course in Analytical Chemistry for Science teachers in July.

Continued from p. 198.]

ST. HILDA'S HALL, founded in 1893 by Miss Dorothea Beale, sometime Principal of Cheltenham Ladies' Coll. Admission (minimum age, 18) by examination. Students are expected to read for an Honour Degree, B.Litt., B.Sc., or Univ. Dipl. *Principal*—Winifred H. Moberly, M.A. *Tutors*: Julia de L. Mann, M.A., Vice-Principal, *Econ.*; Eleanor W. Rooke, M.A., *English*; Christina Keith, M.A., *Classics*; Agnes M. Sandys, M.A., *Mod. Hist.*; Kathleen Chesney, B.A., Librarian, *French*; Jane W. Kirkaldy, M.A., Lectr., *Nat. Sc.*; Eliz. M. O. Farrow, B.A., Lectr., *Chem.*; Edith E. Wardale, M.A., Lectr., *English Language*; Violet L. Winslow, *House Bursar*; Joyce C. Thornton, M.A., *Principal's Secretary.*

UNIVERSITY OF WALES

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE PRINCE OF WALES.

PRO-CHANCELLOR—Rt. Hon. LORD KENYON, K.C.V.O.

VICE-CHANCELLOR—for biennium ending Aug. 31, 1925, Principal, J. H. DAVIES, M.A., Univ. College of Wales, Aberystwyth.

WARDEN OF THE GUILD OF GRADUATES—ERNEST E. HUGHES, M.A.

CLERK OF THE GUILD OF GRADUATES—JOHN HUGHES, M.A.

DEAN OF THE FACULTY OF MEDICINE—Prof. T. GRAHAM BROWN, D.Sc., M.D.

DEAN OF THE FACULTY OF THEOLOGY—Rev. Prof. J. YOUNG EVANS, M.A., B.D.

REPRESENTATIVE IN PARLIAMENT—ERNEST EVANS, B.A., LL.B.

REGISTRAR—D. B. ANTHONY, M.A., University Registry, Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B.E., M.A.

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE OF SWANSEA.

ASSOCIATED THEOLOGICAL COLLEGES

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth*: Principals—Owen Prys, M.A., D.D., Prof. of *Syst. Theol.* and *Philos. of Religion*; J. O. Thomas, M.A., D.D. (Acting Principal), Prof. of *N.T. Greek* and *Exegesis*. Other Profs.: J. Y. Evans, M.A., B.D., *Eccl. Hist.*; E. N. Jones, M.A., *Hebrew* and *O.T. Exegesis*; W. Porter, M.A., Litt.D., *Bib. Lit. and Theol.*; R. Morris, M.A., B.D., *Hist. of Christ. Doct. and of Religion in Wales*. At *Bala*: Principals and Profs. of *Past. Theol.*—David Phillips, M.A., and D. Williams, M.A.

BANGOR, The Baptist and Congregational Jt. School of Univ. Theol. Studies. Principal J. T. Evans, M.A., B.D., *Hebrew and O.T. Canon and Exegesis*; Prof. J. Jenkins, M.A., B.Litt., *N.T. Canon*, etc.; Principal T. Rees, M.A., Ph.D. Lond., B.A. Ox., *Christ. Doct.*, etc.; Prof. J. M. Jones, M.A. Ox., B.A. Lond., *Ch. Hist.*, etc.

BRECON, The Memorial Coll. Principal—T. Lewis, M.A., B.D., Prof. of *Hebrew*. Other Profs.: D. M. Edwards, M.A., *Dogmatics*, etc.; Jos. Jones, M.A., B.D., *Greek*, etc.; John Evans, B.A., *Ch. Hist.*

CARDIFF, The S. Wales Baptist Coll. Principal—W. Edwards, B.A., D.D., Prof. of *N.T. Greek*, etc. Other Profs.: T. W. Chance, M.A., B.D., *Ch. Hist.*; J. M. Davies, M.A., *Philos.*, etc; T. H. Robinson, M.A., D.D., *Hebrew*, etc.

CARMARTHEN, The Presb. Coll. Principal—W. J. Evans, M.A., Lectr. in *Classics*, etc. Other Lectrs.: M. B. Owen, B.A., B.D.; J. O. Stephens, B.A., B.D.; Emrys Jones, B.A., B.D., B.Litt.

GENERAL INFORMATION

The Univ. was founded by Charter, 1893. The teaching for initial degrees is undertaken by the constituent and associated Colleges, and matriculation in the Univ. is open only to students of those Colleges: in the case of an associated College, only to students who are graduates of a Univ. of the United Kingdom or of *St. David's College, Lampeter*. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and conducts the final examns. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

As the result of an inquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes, including: reconstruction of the Univ. Court, a deliberative and legislative body, with 263 members, of whom a little over a half are representatives of Local Education Authorities; institution of a Univ. Council, as the executive and administrative body of the Univ., controlling the finance and distributing all the funds provided for Univ. education; provision of such funds from a penny rate levied throughout Wales and Monmouthshire, supplemented by an equivalent grant from the Treasury; larger freedom for the constituent Colleges (now increased to four, by the inclusion of Swansea) in the control of the Courses of Study and in the conduct of their own examns. for initial degrees, Univ. Examiners now taking part only at the final stages; development of a National School of Medicine in connexion with Cardiff College; new Boards for special studies, such as the Board of Celtic Studies and the Council of Music; Univ. Press Board; Univ. Extension Board providing an enlarged scheme for extra-mural instruction; Appointments Board.

DEGREES. B.A., M.A., Ph D., D.Litt.; B.Sc., M.Sc., Ph.D., D.Sc.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., Ph.D., LL.D.; M.B., B.Ch., M.D.; B.D., D.D.

The minimum period of study for a first degree is 3 yrs. In Music the 3rd yr. may be in any approved Coll. of Music. The degree in Med. is only open to a graduate in Arts or Science of some British or approved colonial or foreign Univ.; the period of qualification for it is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is post-graduate; the scheme of study is pursued in one of the Associated Theol. Colls. (v. *supra*). The scheme of study for an Honours degree in Arts, Science, or Law ordinarily covers 4 years. The M.A., M.Sc., and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., see p. 16.

Diplomas in Educn. (post-grad. Certif. and Diploma); Public Health (D.P.H.); Tuberculous Diseases (T.D.D.).

FEES: Matricn., £2; examns. qualifying for Bachelor degree, from £6: 15s.; Master, £8; Ph.D., £12; higher Doctorates, £20.

SCHOLARSHIPS, ETC., FOR GRADUATES. The Univ. has funds amounting to £3000 p.a. for the encouragement of research. In addition to 6 Fellowships, it awards studentships on the nomination of the Colls. to students who after graduation in Arts or Science engage in work preparatory to research for 1 or 2 yrs. Grants to assist research into Welsh language, institutions, etc., are made, preferably to members of the Univ., from T. Ellis Memorial Fund (capital £1563). Grants, prizes, or exhibitions to encourage advanced study or research in Law are made from the Sir Samuel Evans Memorial Fund (capital £1060).

PUBLICATIONS: *Calendar* (Oct.), 4s. Courses in Div. and Matricn. and Degree Regns., free. Matricn. Examn. Papers, 6d. B.D. Questions, 6d. Degree Papers, Arts 6s., Science, 5s. Bulletin of Board of Celtic Studies, 5s. Publns. of the Council of Music. Publications of the Univ. Press Board.

THE YEAR 1923–24

BENEFACTIONS. Cecil Prosser Research Studentship in Tuberculosis, £2000. Rockefeller Foundation, £14,000. Sir Samuel Evans Memorial Fund, £1060.

CHANGES IN REGULATIONS, ETC. Regns. for the admission to an *ad eundem* degree of students of the Colleges prior to the foundation of the Univ. who hold degrees of other Univ. were adopted. Candidature for the M.A. was opened to holders of the B.D. degree on the same terms as for Honours graduates in Arts. Amended regulations for LL.M. were adopted in consequence of the recent introduction of an Hons. LL.B. degree. International Politics at Aberystwyth was recognized as a department for post-graduate study. A new scheme for Hons. B.A. at Bangor was under consideration. Collegiate ceremonies for admission to initial degrees were held for the first time, admission to post-graduate degrees being still made at the intercollegiate ceremony. The courses provided by the School of Theology in Bangor were recognized provisionally on the recommendation of a body of visitors in a report on the arrangements made jointly by the Univ. College of Bangor and the Associated Theological Colleges.

APPOINTMENTS BOARD. The number of appointments secured through the medium of the Board was 255, including 15 foreign appointments.

HONORARY DEGREES CONFERRED. D.Litt.—E. S. Hartland; D.D.—Rev. J. Puleston Jones; LL.D.—Sir Donald Macalister, Emeritus Professor R. W. Phillips; M.A.—Rev. R. G. Berry, Rev. E. Tegla Davies, Rev. W. Pierce; M.Sc.—H. Drinkwater. OTHER DEGREES: B.A., 243 (w.—141); B.Sc., 177 (w.—41); LL.B., 13 (w.—2); B.Mus., 2; M.B., 8 (w.—3); B.D., 1; M.A., 22 (w.—4); M.Sc., 32 (w.—4); Ph.D., 5 (w.—1); D.Litt., 2 (w.—1); D.Sc., 1.

UNIVERSITY EXTENSION. 60 Tutors were engaged in Tutorial and Pioneer Classes, including 8 full-time and 2 partly engaged in college work. The National Library lent 1800 volumes to 76 Tutorial Classes.

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UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—Sir JOHN WILLIAMS, Bart., G.C.V.O., M.D., D.Sc.

PRINCIPAL—J. H. DAVIES, M.A. Ox.

VICE-PRINCIPAL—Prof. EDWARD EDWARDS, M.A.

GENERAL SECRETARY—J. L. NEWBON.

ACADEMIC SECRETARY—G. J. WALKER.

LIBRARIAN—J. D. WILLIAMS, B.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture

Griffith, J. J., B.Sc. Prof.
Phillips, R., M.Sc., A.I.C. Lectr.
County Organizers, 6.
Instructors in Horticulture, 3.
Instructresses in Dairying, 6.

Advisory Officers :

Fagan, T. W., M.A. Camb., F.I.C., Chemist
Ashby, A. W., M.A. (Hon.) Ox., Agr. Economist and Lectr.
Jenkins, J. R. W., B.Sc., Entomologist.
Davies, D. W., B.Sc., Mycologist.

Agric. Botany

Stapledon, R. G., M.B.E., M.A. Camb. Prof.
Sampson, Kathleen, M.Sc. Lond. Lectr.
Tincker, M. A. H., B.A. Camb., M.Sc. Lond. Asst. Lectr.

Plant Breeding Station :

Prof. Stapledon Director.

Investigators :

Jenkin, T. J., M.Sc.
Williams, R. D., B.Sc.
Jones, E. T., B.Sc.
Jones, Martin G., B.Sc.

Agric. Chemistry

..... Indept. Lectr.
Davies, R. O., M.Sc. Asst. Lectr.

Arabic, v. Hebrew

Botany

Williams, J. Lloyd, D.Sc. (also Spl. Lectr. in Music) Prof.
Jones, S. G., M.Sc. Lectr. & Demr.
Carter, P. W., B.Sc. Asst. Lectr.

Chemistry

James, T. C., M.A. Camb., D.Sc., F.I.C. Prof.
Bury, C. R., B.A., B.Sc. Ox., A.I.C. Lectr.
Hudleston, L. J., B.Sc., A.I.C. Lectr.

Asst. Lectrs. & Demrs :

Davies, C. W., M.Sc., A.I.C.
Green, Albert, M.Sc., A.I.C.

Classics

..... (Greek) Prof.
Rose, H. J., M.A. Ox., B.A. McG. (Latin) Prof.
Jenkins, E. D. T., M.A. Ox. Indept. Lectr. (Greek).
Bensly, E., M.A. Camb. Spl. Lectr. (Med. and Renaissance Latin).
Baillie-Reynolds, P. K., B.A. Ox. Lectr. (Ancient Hist.)

Asst. Lectrs. :

Woodward, Miss A., M.A. Lond.
Pope, R. A., M.A. Camb.

Domestic Science
Fisher, Miss N. Instructress.

Economics and Pol. Science, v. also Politics [Prof.
Lewis, E. A., D.Sc. Lond., M.A., D.Litt. (Lectr. in Palæog.)
Rees, J. Morgan, M.A. Lectr.
King, William, M.A. Asst. Lectr.

Education
Chapple, C. R., M.A. Lond. Prof.
Smith, Frank, M.A. Camb., B.A., B.Sc. Manc., Ph.D. Lectr.
Roberts, Dorothy E., M.A. Lectr.
Hughes, John, M.A. Asst. Lectr.
Jones, Gwenan, M.A., Ph.D. Minn. Asst. Lectr.
Green, G. H., B.Sc. Lond., B.Litt. Ox. Asst. Lectr.
Rowlands, M. Gertrude Asst. Lectr.
Jones, Dan R., A.R.C.A., A.M.C. Art Master.
3 Instrs. in Physical Training and in Needlework.

English Language and Lit.
Atkins, J. W. H., M.A. Camb. and Lond. Rendel Prof.
Winstanley, Lilian, M.A. Manc. Lectr.
Garmonsway, G. N., B.A. Camb. Asst. Lectr.

French Lang. and Lit. and Romance Philol. [Prof.
Barbier, J. L. A., L. ès L. Paris
Thomas, A. B., D. de l'U. Lyon, M.A. Lectr.
Phillips, Eva M., M.A. Asst. Lectr.
Fletcher, F. T. H., M.A. Birm. Asst.

Geography and Anthropology, v. also Ocean.
Fleure, H. J., D.Sc. Prof.
Whitehouse, W. E., M.Sc. Lectr.
Harris, Susan Asst. Lectr.

Geology [Prof.
Pugh, W. J., O.B.E., B.A., F.G.S.
Challinor, J., M.A. Camb., F.G.S. Lectr.
Platt, J. I., B.Sc. Manc., F.G.S. Asst. Lectr.

German
Evans, David, M.A. Indpt. Lectr.
Rees, Hermia, M.A. Asst. Lectr.
Deissmann, E. Lectr.

Hebrew and Arabic
..... Prof.

History, v. also Classics
Edwards, Ed., M.A. Camb. and Lond. Prof.
Jane, L. C., M.A. Ox. Lectr.

History, Colonial [Prof.
Roberts, T. Stanley, M.A. Camb.

Law, English [Prof.
Levi, T. A., M.A., B.C.L. Ox., LL.B. Lond., Barr.-at-Law

Asst. Lectrs. :
Van Druten, J. W., LL.B. Lond.
Jenkins, H. J. S., M.A., B.C.L. Ox.
Lewis, T. Ellis, B.A., LL.B.

Logic and Philosophy
Jones, W. Jenkyn, M.A. Camb., B.A. Lond. Prof.
Reid, L. A., M.A. Edin., Ph.D. Asst. Lectr.

Mathematics, Pure and Applied
Schott, G. A., B.A. Camb., D.Sc. Lond., F.R.S. Prof.
Morton, V. C., M.A. Ox. Lectr.

Asst. Lectrs. :
Sutton, W. G. L., B.A. Ox.
Webber, W. J., B.A. Camb.
Williams, D. R., B.A. Asst.

Music, v. also Botany
Davies, Sir Walford, Mus.D. Camb., LL.D. Leeds, F.R.C.O. Prof.
Williams, Prof. J. Lloyd, D.Sc. Spl. Lectr.
de Lloyd, David, Mus.D. Dub., B.A., Mus.B. Lectr.
10 Assts.

Oceanography
Jenkins, J. Travis, B.Sc. Lond., Ph.D. Kiel, D.Sc. Hon. Lectr.

Palæography, v. Econ.

Philosophy, v. Logic

Physics
Owen, Gwilym, M.A. Camb., M.Sc. Manc., D.Sc. Liv. Prof.
Tunstall, N., B.Sc. Manc. Lectr.

Asst. Lectrs. & Demrs.:
Mandell, W., B.Sc. Lond.
West, J., B.Sc. Manc.

Politics, Internat.
Webster, C. K., M.A. Camb. Wilson Prof.
Herbert, S., M.A. Lectr.

Welsh [Prof.
Parry-Williams, T. H., M.A. Wales, B.Litt. Ox., Ph.D. Freib.

Welsh Literature
Jones, T. Gwynn, M.A. Prof.
Lewis, Timothy, M.A. Manc., B.A. Reader (Celtic Philol. and Palæog.).

Zoology, v. also Ocean.
Laurie, R. D., M.A. Ox. Prof.
Watkin, E. E., B.Sc. Asst. Lectr.
Lewis, E. Aneurin, B.Sc.

University Extension

Morgan, Herbert, M.A. Ox., B.A.
Director of Extra-mural Studies.
14 Tutors.

GENERAL INFORMATION (v. also p. 222)

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

LIBRARIES. College, 50,000 vols., including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1905, 430,000 vols., rich in Welsh and other Celtic books and MSS. MUSEUMS: Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Crafts. The Chemistry LABORATORIES, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations and Training Farm.

FACULTIES. Arts, Science, Law, Music. *Departments*: Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Domestic Science. A special feature is the ample provision for instruction and research in Agriculture. A Chair of International Politics was founded in 1919.

DEGREE courses in Arts, Science, Law, Music.
College Diploma courses: Associateship, 2 yrs.; Assoc. in Agric., 3 yrs.; Dairying, 2 yrs.; Music, 2 yrs.; Geography, 1 yr.; Art, 1 yr.; Handicraft, 1 yr.
Courses in Science meet the requirements of the first year of Medical study and the examns. of the Pharmaceutical Society.
Post-graduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

RESEARCH work is systematically carried on in Agric. Botany and Agric. Chem. (whole-time Research Botanist, Chemist, Entomologist, and Mycologist), Chem., Geol., Geog., Physics, Zool., English, Welsh, Philos., Maths., Economics, History.

FEES for tuition in Arts, £15 per session; Science, £20; Registration, £1; Research students, 6 to 10 gs.

SCHOLARSHIPS FOR GRADUATES. 4 for Research, value £27 to £70, open to Colonial and Foreign students as well as to students of the College. *See* also

under Univ. TRAVELLING SCHOLARSHIPS for visiting Continental institutions, average, £20 to £30; total, £500. RESEARCH STUDENTSHIP, £200 in Dept. of International Politics.

RESIDENCE. Board and lodging at Hostels: men—55 gs., women—50 to 62 gs. per session. Accommodation in Hostels for 60 men and 300 women.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric. subjects; Travelling Dairy School; Tutorial Classes in Econ., Lit., Hist., Welsh Psychology, etc.; Summer School annually in Aug.

AFFILIATION. The Coll. is affiliated to Ox. and Camb., and is recognized by Edin. and N.U.I., by the R.C.P. and S. Eng. and Edin., the F.P. & S. Glas., the R.C.P.I., the Inst. Chem., and the Surveyors' Instn.

PUBLICATIONS: *Calendar* (Jan.), 1s. 6d.; *Aberystwyth Studies*; Students' Magazine, *The Dragon*; Inaugural Lectures.

THE YEAR 1923–24

BENEFACTIONS. In addition to the annual subscriptions of £1000 from Sir Laurence Phillips, Bart., and £150 from the Hon. Samuel Vestey, the following donations were received: Anonymous for Fisheries, £100; T. D. Jenkins, for Fisheries, £50; J. Davies Bryan, for Music, £80; R. J. R. Loxdale, for Agric., £25; smaller sums, £36. £600 was collected to found a Scholarship in memory of Miss M. J. Rees, "Cranogwen," a pioneer of women's work in Wales.

NEW POST. Adviser in Agric. Economics.

OTHER NEW DEVELOPMENTS. College Museum was reorganized and is now used as a Gallery of Crafts; numerous specimens of British and Foreign Craftsmanship both ancient and modern have been acquired, and are on exhibition for the benefit of teachers and students. The College Union, for students and staff, was opened by the Prince of Wales. Courses in Law for Articled Clerks were given in conjunction with Univ. College, Bangor, at Rhyl.

VISITORS FROM ABROAD WHO LECTURED. Prof. Pribram of the Univ. of Vienna.

RETIREMENTS. D. Hughes Parry, appointed Lectr. in English Law, London School of Economics; T. Lloyd Jones; Eifion Owen; Annie Owen. DEATH: Prof. Abel E. Jones.

UNIVERSITY EXTENSION. Tutorial Classes were held at 26 Centres, attended by 651 students. Public Lectures by Profs. C. K. Webster, Foster Watson, E. Bensly, W. M. Calder of Manchester Univ., Prof. W. J. Dakin of Liverpool Univ., Prof. Sir John Morris Jones of Univ. College, Bangor, and C. G. Coulton of Cambridge.

STUDENTS. Full-time, preparing for bachelorship or diploma, 770 (including women—313); part-time, 93; research, 42. Degrees obtained: B.A., 88 (women—51); B.Sc., 53 (w.—16); M.A., 13 (w.—2); M.Sc., 11 (w.—1); D.Sc., —; LL.B., 13 (w.—2); B.Mus., 2; Ph.D., 3 (w.—1); D.Litt., 1 (w.).

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

PRESIDENT OF THE COURT OF GOVERNORS AND CHAIRMAN OF THE COUNCIL—Rt. Hon. LORD KENYON, K.C.V.O.

PRINCIPAL—Sir HARRY R. REICHEL, M.A., LL.D.

SECRETARY AND REGISTRAR—W. P. WHELDON, D.S.O., M.A., LL.B.

BURSAR—RICHARD WILLIAMS.

WARDEN OF THE WOMEN STUDENTS—MURIEL O. DAVIS.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture

White, R. G., M.Sc. Leeds Prof.
Roberts, E. Jones, B.Sc. Lectr.
Montgomerie, R. F., B.Sc., M.R.C.V.S. Vet. Advisory Officer.
Lectrs. in Bldg. Constn., Bookkeeping, Vet. Hygiene.
County Staffs : .5 Organizers ; Instructors in Cheesemaking, Dairying, Horticulture and Poultry-keeping.

Agric. Botany

Roberts, R. Alun, B.Sc. Adviser.
Whitehead, T., M.Sc., A.R.C.S. Adviser in Plant Pathology.
..... Asst. Lectr.

Agric. Chemistry [Lectr.

Robinson, G. W., M.A. Camb.
McLean, W., B.A., B.Sc., A.R.C.Sc.I., A.I.C. Lectr.
Williams, Rice, M.Sc. Asst. Lectr.

Agric. Entomology [Adviser.

Walton, C. L., M.Sc., Ph.D.

Botany

Thoday, D., M.A. Camb. Prof.
Davey, A. Jane, M.Sc. Lond. Lectr.

Chemistry

Orton, K. J. P., M.A. Camb., Ph.D., F.R.S., F.I.C. Prof.
Watson, H. B., B.Sc., A.I.C. Lectr.
Soper, F. G., B.Sc., Ph.D. Lectr. in Physical C.
Asst. Lectr. & Demr. :
Hunter, L., M.Sc. Lond.

Classics

Hudson-Williams, T., M.A., D.Lit. Lond. (Greek) Prof.
Thomson, H. J., M.A., D.Litt. St. And. (Latin) Prof.
Whatmough, J , B.A. Camb., M.A. Manc. Lectr.
Lees, Miss M. E., M.A. Manc. (Latin) Asst. Lectr.

Economics

Richards, R. D., B.Sc. (Econ.) Lond. Lectr.

Education

Archer, R. L., M.A. Ox. Prof.
Paterson, Alice, M.A. Edin., Ph.D. Jena Lectr.
Thomas, Miss M. Lectr.
Williams, Ivor Asst. Lectr.
Hamilton, E. R., M.A., B.Sc. Asst. Lectr.
Instructors in Drill, Handwork, and Rural Sc.

English Lang. and Lit.

Wright, H. G., M.A. Manc. Prof.
King. R. W., M.A. Lond. Lectr.

Collins, A. S., M.A. Lond. Asst. Lectr.

Forestry

Thomson, T., M.Sc. Lectr.

French and Rom. Philol. [Prof.

Fynes-Clinton, O. H., M.A. Ox.

Cariou, Mlle. H., L. ès L. Asst. Lectr.

German and Teut. Philol.

Purdie, Edna, M.A. Liv. Lectr.

History [Prof.

The Principal (Constitutional H.)

Lloyd, J. E., M.A., D.Lit. Ox. (Lectr. in Church H.) Prof.

Turberville, A. S., M.A., B.Litt. Ox. Lectr.

Shankland, Rev. T., M.A. (Mod. Welsh H.) Reader.

Dodd, A. H., B.A. Ox. Lectr.

Logic and Philosophy

Gibson, J., M.A. Camb. Prof.

Lewis, Miss G. A., M.A. Lectr.

Stout, A. K., B.A. Ox. Asst. Lectr.

Mathematics

Bryan, G. H., Sc.D. Camb., F.R.S. Prof.

Phillips, E. G., M.A., B.Sc. Asst. Lectr.

Curnow, H. J., B.Sc. Jr. Lectr.

Music

Davies, E. T., F.R.C.O. Director.

6 Executants and Teachers.

Philosophy, v. Logic

Physics [Prof.

Jones, E. Taylor, D.Sc. Lond.

Mainstone, P. A., M.Sc. Lectr.

Williams, W. Ellis, B.Sc. Lectr. in Applied Electricity

Asst. Lectr. & Demr.:

Jones, H. Irvon, B.Sc.

Semitic Languages

Robertson, E., M.A., B.D., D.Litt. St. And. Prof.

Evans, Principal J. T., M.A., B.D. Spl. Lectr.

Theology, v. also Semitic

Spl. Lectrs.:

Principal Rees and Prof. J. M. Jones of the Congregational College, Bangor (v. p. 221).

Jones, G. Basil, M.A. (Philos. of Religion).

Jenkins, J. (Gwili), M.A., B.Litt.

Welsh

Morris-Jones, Sir J., M.A. Ox., LL.D. Prof.

Williams, Ifor, M.A. Prof. of W. Lit.

Parry, R. W., M.A. Asst. Lectr.

Zoology

White, P. J., M.B. Edin. Prof.

Thorpe, Laura, M.Sc. Liv. Asst. Lectr.

University Extension

Whole-time Lectrs.: Roberts, R. Silyn, M.A.; Jones, E. J., M.A.; Richards, R., B.A. Half-time: Dodd, A. H., B.A.; Parry, R. W., M.A. Many other members of the Staff give single courses or combine in giving a series.

GENERAL INFORMATION (v. also p. 222)

This College, constituted by Royal Charter in 1885, was made a constituent College of the Univ. in 1893.

The Physics and Chemistry buildings and the Biology laboratory were opened in 1885, and extended in 1892 to provide for Zoology and Agriculture, and in 1911 the Arts dept. was removed to a site, in the heart of the city, of over 10 acres, given by the Corporation. The buildings, including the Great Hall, were opened in 1911 by King George.

LIBRARIES. General, 50,000 vols. Welsh, 15,000, including the largest and

best-equipped collection of Welsh periodicals in existence. MUSEUMS include special collections of fish, shell-fish, and fishing gear, Welsh antiquities, and Roman finds from Segontium (Roman fort at Carnarvon). FARM, 675 acres, chiefly sheep pasturage. Dairy.

Special facilities are offered for research in Welsh Language and Literature, Political, Social, Economic, and Religious History of Wales, and allied subjects.

COURSES. B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B.D. degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, and Applied Electricity, as well as in Pure Sc. College *Diploma* courses in Agric. and in Estate Management (3 yrs.), and in Forestry and Elec. Engineering (2 years). The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Other courses: First year of Med. study; 1 yr. post-graduate course for Teachers (Elem. and Secondary); for Kindergarten Certif.—Elem. 1 yr., Higher 2 yrs. and 1 term. Shorter courses in Agric. and Dairy work by itinerant lecturers.

FEES. Registration, 1 g. per session. Tuition, per session: Arts, £15; Science, £20; Medicine, 1st year (including lab.), £22; Post-graduate courses, non-lab., 6 gs.; with lab., 10 gs.; Agric., etc., diploma course, winter session £15 : 15s. (2 terms); Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £1 : 8s.

SCHOLARSHIPS, ETC., FOR GRADUATES. Several College awards ranging in value from £22 to £50, open to students of the College. Loan fund (£150) for helping poor students to complete courses. *See* also under Univ.

RESIDENCE. Hostels for 35 men (£47 p.a.) and 180 women (£44-£58). Total cost of living in lodgings and tuition in Bangor, from £55 to £65 per session.

UNIVERSITY EXTENSION, ETC. Local lectures in Literature, Econ., and Agric.; small lending libraries; Tutorial Classes, chiefly for slate-quarrymen and miners. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

PUBLICATIONS. *Calendar* (Sept.), 2s. 6d.; *Students' Handbook*, 1s.; *College Magazine*, one issue per term, 1s.; Prospectus free.

THE YEAR 1923–24

NEW BUILDINGS AND EQUIPMENT. In 1917–18 the North Wales Heroes' Memorial Council was formed by friends of the College to collect funds for (*a*) new science buildings, (*b*) a memorial to the 8500 men of North Wales killed in the Great War, and (*c*) bursaries for their children. By 1923 the Memorial Fund amounted to £90,000, and a Memorial Archway was erected in the College grounds. On Nov. 1, 1923, the Prince of Wales opened the Archway and laid the foundation-stone of the new science buildings.

NEW POST (authorized by the Ministry of Agric.), Veterinary Advisory Officer.

RETIREMENT. Prof. E. V. Arnold (Latin), succeeded by H. J. Thomson from St. Andrews. *Resignations*: W. L. Ferrar, now Lectr. in Maths. at Edinburgh; Mrs. E. B. Veitch, now Lectr. in Maths. at Girton College, Camb.; S. C. Lazarus, now Lectr. in Philos., Melbourne; J. D. Mabbott, now Fellow and Tutor at St. John's Coll., Camb.

UNIV. EXTENSION. Tutorial classes at 12 centres, and Pioneer classes at 9. The classes were not only in Economics, but also in Welsh Lit., Psychol., Music, Geol., and Geog. *W. H. Williams Lectureship.* A class of 8 young quarrymen was in residence for a month during the Summer term, attending lectures on Local Govt., Indust. Hist., etc. *Special Lectures* open to the public at the College: H. Granville Barker, 4 on "King Lear"; Prof. J. F. Bethune-Baker, 10 on "Development of Christian Doctrine"; Prin. Maurice Jones, (5) "Introductory Lectures to the Study of the New Testament."

The demand for single lectures is still increasing, and every effort was made by the College staff to meet it. The College Buildings and Hostels were largely used for *Summer Schools*, including North-Western W.E.A. and Mathematics Schools.

STUDENTS, full-time, taking courses for first degrees in Arts, 237 (including women—129); Pure Science, 101 (women—22); Med., 5; Agr., 14; Forestry, 1; App. Electricity, 8; graduate students in Arts, 16 (w.—5); Sc., 19 (w.—1); Theol., 17 (w.—1); Sec. Training, 28 (w.—17); other full-time students, 112 (w.—66); part-time, 17 (w.—6). Degrees obtained: B.A., 69 (w.—41); B.Sc., 39 (w.—11); M.A., 2 (w.—1); M.Sc., 8; Ph.D., 2; D.Sc., 1; D.Litt., 1. Travelling scholars: Miss S. Evans, 1 year in Germany (Gilchrist); others spent part of session in France (2) and in Germany (1).

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UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

PRESIDENT—Sir D. R. LLEWELLYN, Bart.

TREASURER—HENRY GETHIN LEWIS.

PRINCIPAL—A. H. TROW, D.Sc. Lond., F.L.S.

REGISTRAR—D. J. A. BROWN. LIBRARIAN—S. O. MOFFET, M.A. Manc.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture (Advisory and Research Staff)

Rees, J., B.A., B.Sc. (A. Botany).
Thompson, H. W., M.Sc. Leeds (A. Zool.).
Bisset, N., M.R.C.V.S., F.Z.S. (Vet. Sc.).

Anatomy

Hepburn, D., C.M.G., V.D., M.D., C.M. Edin. Prof.
Evans, H., M.A., D.M. Ox., M.B., B.S., M.R.C.P. Lond. Demr.
Jones. A. M., M.D., Ch.B. Edin. ,,

Archæology

Fox, Cyril F., Ph.D. Camb. (Keeper of Dept. of A. in Nat. Museum). Lectr.

Architecture

Purchon, W. S., M.A. Lond., A.R.I.B.A. Lectr.

Botany

McLean, R. C., M.A. Camb., D.Sc. Lond., F.L.S. Prof.
Crow, W. B., M.Sc., Ph.D. Lond., F.L.S. Lectr.
Quinlan, Christine, M.Sc., N.U.I. Asst. Lectr. & Demr.

Chemistry

Jones, W. J., D.Sc. Manc., M.Sc., F.I.C. Prof.
Perman, E. P., D.Sc. Lond., F.I.C., F.C.S. Asst. Prof.
Bassett, H. Ll., M.A. Camb., B.Sc. Lond., A.I.C. (Organic C.) Lectr.
Cullinane, N. M., M.Sc., Ph.D. N.U.I., A.I.C. Asst. Lectr. & Demr.

Classics, v. also German [Prof.
Norwood, G., M.A. Camb. (Greek)
Freeman, Kathleen, M.A. Asst. Lectr.
Braunholtz, G. E. K., M.A. Camb. Prof. (Latin).
Grundy, W. W., M.A. Camb. Lectr.

Economics and Pol. Science

Roberts, W. J., M.A. Ox. Prof.
Evans, R. T., B.A. Asst. Lectr.

Education

Phillips, W., M.A. Prof.
Foxley, Barbara, M.A. Dub. Prof.
Saxby, Ida B., D.Sc. Lond. Lectr.
Smith, Annie Lectr.
Jones, E. J., M.A. Lectr.

Asst. Lectrs.:
Barke, Ethel M., M.A. Dub.
Amos, A. D., B.Sc. Lond.
Thomas, R., M.A.
Flight, Miss E. G. Teacher in Art

Engineering

Pippard, A. J. Sutton, M.B.E., D.Sc. Bris., A.M.I.C.E., F.R. Aero. S., A.M.I.Mech.E., F.Inst.P. Prof.
Thomas, S., B.Sc., A.M.I.E.E., A.M.I.Mech.E. Lectr.

Foster, P. F., B.Sc. Lond., A.M.I.Mech.E. Asst. Lectr. & Demr.
Barrow, F. L., M.Sc. Birm. Asst. Lectr. & Demr.

English Lang. and Lit.
Brett, C., M.A. Ox. Prof.
McLean, Miss C. M., M.A. Edin. Asst. Lectr.
Llewellyn, E. C., B.A. Ox. and Wales Asst. Lectr.

French (v. also p. 236)
Watkin, M., M.A., L. ès L. Ren., Ph.D. Zur., O.I.P. Prof.
Jones, P. Mansell, M.A., B.Litt. Ox. Lectr.

Geology
Cox, A. H., D.Sc. Birm., Ph.D. Stras., F.G.S. Prof.
Heard, A., M.Sc. Manc., Ph.D., F.G.S. Lectr.
Dingwall, Miss J. M. M., M.A., B.Sc. Edin. Asst. Lectr.

German
Arnold, F. T., M.A. Camb. (Asst. Lectr. in Latin) Lectr.

Histology, v. Physiol.

History (v. also p. 236) [Prof.
Bruce, H., M.A. Ox., F.R.H.S.
Rees, Wm., D.Sc. Lond., M.A., F.R.H.S. Lectr.

Hygiene and Public Health, v. *infra*

Law
Davies, E., B.A. Ox. Lectr.

Mathematics
Livens, G. H., M.A. Camb. Prof.
Taylor, D. G., M.A. Camb. and Glas., D.Sc. Glas. (Pure M.) Lectr.
Pope, A. H., B.Sc. Lond. Asst. Lectr.
Hayden, H. A., B.Sc. ,, ,,

Medicine, v. *infra*

Metallurgy
Read, A. A., D.Met. Sheff., F.I.C., F.C.S. Prof.

Asst. Lectrs. & Demrs.:
Jones, W. R. D., M.Sc.
Handford, C., M.Met. Sheff.

Mining [Lectr.
Price, S. W., A.R.S.M., M.I.M.E.

Music
Evans, D., Mus.D. Ox. Prof
Lloyd, J. Morgan, Mus.B. Dub. Asst. Lectr.
14 Teachers.

Philosophy, Logic and [Prof.
Scott, J. W., M.A., D.Phil. Glas.
Thorburn, J. M., M.A., B.Sc. Edin., B.A. Lond. Asst. Lectr.

Physics
Selby, A. L., M.A. Ox. Prof.
Dunbar, R. T., M.A., B.Sc., Ph.D. Edin. Lectr.

Asst. Lectrs. & Demrs.:
Young, C. L., B.Sc.
Harker, G. H., B.A. Camb.
Crackston, J. E., M.Sc. Liv.

Physiology, v. also *Zool.*
Brown, T. Graham, M.D., D.Sc. Edin. Prof.
Daly, I. de B., M.A., M.D. Camb. Lectr. (Expl. P.).
Burlend, T. H., M.A. Camb., B.Sc. Lond. (Histol. & Embryol.) Lectr.
Pryde, J., B.Sc. St. And. (Lectr. in Physiol. Chem.) Asst. Lectr. and Demr.
Shaxby, J. H., M.Sc. Lond., F.Inst.P. Lectr. (Special Sense P.).

Semitic Languages
Robinson, T. H., M.A. Camb., D.D. Lond. Lectr.

Welsh
Gruffydd, W. J., M.A. Ox. Prof.
Williams, G. J., M.A. Asst. Lectr.

Zoology, v. also Physiol. [Prof.
Tattersall, W. M., D.Sc. Manc.
Lloyd, J. H., M.Sc. Birm., F.Z.S. Lectr.
Sheppard, Edith M., M.Sc., F.Z.S. (Asst. in Histol.) Asst. Lectr. & Demr.

Medicine, Welsh National School of (for subjects of first 2 yrs. —Anat., etc., v. *supra*)

Hygiene and Public Health

Collis, E. L., M.A., D.M. Ox. Talbot Prof. of *Preventive Med.*

Williams, E. Colston, M.D. Lond., D.P.H. Camb. Lectr.

Picken, R. M. F., M.B., Ch.B., B.Sc. Glas., D.P.H. Camb. Lectr.

Morgan, W. Parry, M.A., M.D. Camb., B.Sc. Lond. Lectr. (*Bact. & Parasit.*).

Sugden, J. H., M.Sc. Manc., F.I.C. Lectr. (*Hyg. Chem.*).

Materia Medica and Pharmacology, v. also Med.

Stevens, W. Mitchell, M.D. Lond., F.R.C.P. Lectr.*

Medicine

Kennedy, A. Mills, M.D., Ch.B. Glas. Prof., Dir. of Med. Unit.

Davies, Ivor J., M.D. Lond. Asst.*

Evans, H. T., M.A., M.D. Ox., M.B., B.S. Lond. Asst.*

Evans, Abel, M.B., B.S. Lond. Asst.

Buist, J. J., M.B. Lond. Lectr. (*Forensic M.*).

Howell, A., M.D. Lond. Lectr.* (*Dis. of Children*).

Beatty, J., M.A., M.D. Dub., D.P.H. (Asst. Lectr. in *Materia Med.*) Lectr. (*Dermatology*).

Goodall, E., C.B.E., M.D., B.S. Lond. Lectr. (*Mental Dis.*).

Lewis, Cyril, M.D., C.M. Edin.*

Obstetrics and Gynæcology

Maclean, Sir Ewen J., M.D., M.Ch. Edin., F.R.C.P. Prof.

Strachan, G. I., M.D., Ch.B. Glas., F.R.C.S. 1st Asst.

Collins, B. K. Tenison, M.A., M.D., B.Ch. Camb. 2nd Asst.

Collins, W. Tenison, M.R.C.S.*

Pathology and Bacteriology

Kettle, E. H., M.D., B.S. Lond. Prof.

Haig, H. A., M.B., B.S. Lond. Lectr.

Surgery

Sheen, A. W., C.B.E., M.S. Lond., F.R.C.S. Prof.

Grant, J. W. Geary, F.R.C.S.*

Hammond, T. E., F.R.C.S. Asst.

Haycraft, J. B., M.B., Ch B. Edin., F.R.C.S. Asst.

Cook, H. G., C.B.E., M.D., B.S. Lond., F.R.C.S.*

Griffiths, Cornelius A., F.R.C.S.*

Martin, W., M.A., M.B., C.M., B.Sc. Glas.*

Wade, J. O. D., O.B.E., M.B., M.S. Lond., F.R.C.S.*

Harries, D. J., M.D., B.S. Lond., D.Sc., F.R.C.S.*

Cresswell, F. P. S, M.B., B.S., B.Sc. Lond., F.R.C.S. Lectr.* (*Ophth.*).

Davies, D. Leighton, M.D., M.S. Lond., F.R.C.S. *(*Ophth.*).

Thomas, J. W. Tudor, M.B., B.S. Lond. and Wales.*

Paterson, D. R., M.D., C.M. Edin. Lectr.* (*Oto - Rhino - Laryngology*).

Jones, A. Mason, M.D. Asst.*

Greaves, H. Gordon, M.B., B.Ch. Camb. Lectr. (*Anæsthetics*).

Rhys, O. Ll., M.D. Edin. Lectr. (*V.D. and Radiology*).

Evans, T. G., M.D. Lond., D.M.R.E. Camb. (*Physio-Therapy*).*

Evans, Miss Erie, M.B. Lond. (*V.D.*).

* On Staff of Infirmary and Recognized Clinical Teachers in the Med. School.

Smith, S. A., D.S.O., O.B.E., Ch.M., M.D. Edin. (*Orthop. S.*).
Tuberculosis
Cummins, S. Lyle, C.B., C.M.G., M.D., LL.D. N.U.I. Prof.

University Extension

Tutors, 19 (including a few members of the College Staff). Joint Secy.—D. J. A. Brown, Regr.

GENERAL INFORMATION (v. also p. 222)

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. The Medical School was opened in 1894, the Engineering School in 1896. New College Buildings, containing the Arts and Administrative Blocks and the Drapers' Company's Library, were opened in Cathays Park (wherein the Univ. Offices are also located) in 1909, the Viriamu Jones Memorial Physical Research Laboratory in 1912. Physiological Dept. Buildings were completed and occupied in 1919, and formally opened in June 1921 by the Prince of Wales, who at the same time laid the foundation-stone of the buildings of the Dept. of Public Health and School of Preventive Medicine. In Oct. 1921 the development of the Medical School into the "Welsh National School of Medicine" enabled provision to be made for complete courses for a Degree or other qualification to practise Medicine.

LIBRARY: Drapers' Company's, 54,000 vols. MUSEUMS: Anat., Mat. Med., Path., Zool. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. LABORATORIES: Physical Research, with liquid-air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs. The Cardiff Royal Infirmary (between 300 and 400 beds) in which the final studies of the Welsh National School of Medicine take place is within five minutes' walk of the College. Clinical facilities are available also in other local hospitals.

FACULTIES. Arts, Science, Medicine (Welsh National School of Medicine). *Departments*: Music, Applied Science and Technology, Teaching (Elem. and Secondary); Advisory and Research Dept. in Agric.

COLLEGE DIPLOMAS. Engineering, Metalliferous Mining, Metallurgy; Welsh Lang. and Lit.; Economics and allied subjects; Music; Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years; in the other subjects, 2 yrs. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post diploma course. A Joint Diploma in Mech. Engin., Marine Engin., or Industr. Chem. is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course. The *Associateship* of the Coll. is given to students who attend the Coll. Classes for not less than 2 sessions, and who graduated at a Univ. in the U.K. or are otherwise qualified.

SCHOLARSHIPS (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 (which may be increased by a bonus) for Science research. *See also* under Univ.

FEES. Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical, £25 to £35; Hospital practice, Perpetual Hospital ticket, £12: 12s.; Teacher Training, £15 to £20 (Private Students, £35); Research, 6 to 10 gs.; Registration, 1 g. p.a.

RESIDENCE. 2 Hostels for women. Sessional Fees, £65 to £75. Board and lodging in the City can be obtained at about £2 per week.

PUBLICATIONS. *Calendar* (Feb.), 2s.; *Students' Handbook*; *Cap and Gown*.

THE YEAR 1923–24

BENEFACTIONS. £15,623 : 5 : 4 for Appeal Fund; executors of the late J. Pyke Thompson, £210 for Dept. of Music; Dr. W. T. Edwards' bequest, £5183 for School of Medicine, £361 for Scholarships and Prizes, and £10 for Library; £210 for general purposes. Appeal Fund reached £130,125.

NEW DEVELOPMENTS. The Welsh National School of Medicine was accorded full recognition by the Univ. of London and the Conjoint Board of the R.C.P. and S. in respect of its courses of study. The Trustees of the Rockefeller Foundation made a grant of £14,000 to aid the Medical Unit. The erection of new buildings for Physics and Chemistry was proceeded with.

RESIGNATIONS. D. C. Jones, appointed as Lectr. in Chemistry at East London College; J. H. Shaxby (from Dec. 1924), appointed Lectr. in Special Sense Physiology in the Welsh Nat. School of Med.; Marion G. Holmes, appointed Lectr. in Botany at the Horticultural College, Swanley, Kent. DEATH: Prof. E. Emrys-Roberts.

EXTRA-MURAL WORK. University Tutorial Classes, 21, with 479 students; Pioneer Tutorial Classes, 11, with 326 students. Many members of the College Staff delivered single lectures and courses of lectures.

STUDENTS, full-time, taking courses for first degree, 724 (including women—271); graduate students, 75 (women—25); others, 220 (w.—75); part-time undergraduate, 54 (w.—17); graduate, 9 (w.—5). Degrees obtained: B.A., 82 (w.—47); M.A., 6 (w.—2); B.Sc., 71 (w.—13); M.Sc., 10; M.B., 8 (w.—3); Ph.D., 1; B.D., 1; also London Degrees: B.Sc., 2 (w.—1); M.Sc., 1; M.B., B.S., 4 (w.—1); M.D., 4. Number of students whose home residence is in other countries, 6.

Continued from p. 233—

French

Bouzeron, J. C. M., L. ès L. Lecteur.
Duchemin, Suzanne, L. ès L., M.A. Bryn Mawr. Lectrice.

History

Whale, Gwendolyn, B.M., B.A. Asst. Lectr.

UNIVERSITY COLLEGE OF SWANSEA

PRESIDENT—F. W. GILBERTSON.

PRINCIPAL—T. FRANKLIN SIBLY, D.Sc. Lond. and Bris.

REGISTRAR—EDWIN DREW. LIBRARIAN—OLIVE M. BUSBY, M.A. Lond.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Biology

Mockeridge, Florence A., D.Sc. Lond., F.L.S. Lectr.

Rees, T. Kenneth, M.Sc. Asst. Lectr.

Hilton, Irene A. F., B.Sc. Liv. Asst. Lectr. & Demr.

Chemistry

Coates, J. E., O.B.E., D.Sc. Birm., M.Sc., F.I.C. Prof.

Hinkel, L. E., D.Sc. Lond., F.I.C. Lectr. (Organic C.).

Ayling, E. E., B.Sc. Lond., A.I C. Asst. Lectr.

Butler, J. A. V., M.Sc. Birm. Asst. Lectr.

Classics

Evans, Prof. D. Emrys, B.Litt. Ox., M.A. Prof.

Grube, G. M. A., B.A. Camb. Asst. Lectr.

Hill, H., M.A. Sheff. Asst. Lectr.

Education

Cavenagh, F. A., M.A. Lond. Prof.

Engineering

Bacon, F., M.A. Camb., A.M.I.C.E., M.I.M.E., M.I.E.E. Prof.

Isaacs, R. G., M.Sc. Bris., B.Sc. Lond., A.M.I.E.E. Lectr. (Elec. E.).

Fordham, A. A., B.Sc. Lond., A.M.I.C.E., M.I.Struct.E. Lectr. (Civ. E.).

Caswell, J. S. Asst. Lectr.

English

Thomas, W. D., M.A. Ox., B.A. Prof.

Taig, T., M.A. Glas. Asst. Lectr.

Geology

Trueman, A. E., D.Sc. Lond., F.G.S. Lectr.

Stuart, A., M.Sc. Durh. Asst. Lectr.

History [Lectr.

Hughes, E. E., M.A. Ox., B.A.

Jones, G. Nesta, M.A. Asst. Lectr.

Mathematics

Richardson, A. R., B.Sc. Lond., A.R.C.S. Prof.

Dienes, D., D.Phil. Buda Pest Lectr.

Wilson, R., M.A. Ox. Asst. Lectr.

Keeping, E. S., B.Sc. Lond., D.I.C., A.R.C.S. (M. and Physics) Asst. Lectr.

Metallurgy [Prof.

Edwards, C. A., D.Sc. Manc.

Macnair, P. M., Ph.D. Sheff., B.Sc. Glas. Asst. Lectr.

Norbury, A. L., M.Sc. Manc. Lectr.

Pfeil, L. B., M.Sc. Lond., A.R.S.M. Asst. Lectr.

Modern Languages

Williams, Mary, D. de l'U. Paris, M.A. Prof.

Husband, J. H., M.A. Sheff.

Diverres, P., M.A. Liv., D. ès L. Rennes, Officier d'Académie Asst. Lectrs.

Physics, v. also Maths.

Evans, E. J., D.Sc. Lond., B.Sc., A.R.C.S. Prof.

Jones, W. Morris, M.A. Camb., M.Sc., F.Inst.P. Lectr.

Wright, L., M.Sc. Sheff. Asst. Lectr.

Lewis, Saunders, M.A. Liv. Asst. Lectr.

Welsh

Lewis, Henry, M.A. Prof.

University Extension

Thomas, P. S., M.A. Staff Tutor.

GENERAL INFORMATION (v. also p. 222)

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales under the terms of a Supplemental Charter granted to the Univ. on Aug. 13, 1920.

The administrative offices, assembly hall, library, common rooms, and refectory, in addition to the Arts and some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of the building and equipping of the new Departments of Physics, Chemistry, and Metallurgy on an adjacent site. The Dept. of Engineering is temporarily housed in the buildings of the Swansea Technical College. The foundation-stone of the College buildings was laid by H.M. the King on July 19, 1920.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up.

FACULTIES. Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem. and Sec. Schools.

COURSES FOR DEGREES, ETC. Courses (3 years) of study are provided in preparation for the degrees of the Univ. in Pure and Applied Science and Arts; also in preparation for the College diplomas in Metallurgy and in Engineering; also complete Prelim. Science Course for medical students and classes in Law for articled clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

FEES. For tuition in Pure or Applied Science, £20; Arts, £15; Registration, £1: 1s. p.a.; for Research, from 6 to 10 gs.

RESIDENCE. Hostels for men and for women students. A list of Registered Lodgings is kept by the Registrar.

THE YEAR 1923–24. BENEFACTIONS. Towards cost of buildings and equipment for the Department of Engineering: Chas. E. Cleeves, £5000; Fred Cleeves, £1000; J. F. Cleeves, £1000; Coal Owners' University Trust Fund, £2000. For endowment of Scholarships in Metallurgy: Mr. and Mrs. Henry Folland, £3000. For purchase of Physics Apparatus: Evan Jones, £25. For Coal Measures Research and Extra-mural Work: Coal Owners' University Trust Fund, £500. Other Gifts: Ammanford National Eisteddfod Committee, £100; F. W. Gilbertson, £78: 19s.; Neath Steel Sheet and

Galvanizing Co., Ltd., £50. Annual Subscriptions: £5855. RESIGNATIONS: H. H. Burness, appointed Head of Dept. of Civil Engineering and Building at Bradford Technical College, succeeded by A. A. Fordham, from Univ. of Sheffield; Miss E. M. Rees (Biology). DEATH: H. I. Coe. NEW APPOINTMENT: Part-time Research Demr. in Geology (Temporary), Miss D. M. Williams; Assistant Lecturers in Classics and Modern Languages.

STUDENTS. Full-time in Arts, 132 (including women—75); Pure Science, 74 (w.—16); Applied Science, 39; Med., 5; graduate, 9 (w.—1); Diploma, 15 (w.—1); part-time, 36 (w.—7). Degrees obtained: B.A., 7; B.Sc., 17; M.Sc., 5. Number of students whose home residence is in other countries, 1.

UNIVERSITY EXTENSION WORK. 12 Univ. Tutorial Classes and 5 Pioneer Classes with 507 students. The College arranged 4 courses of 3 lectures each in Swansea during the Michaelmas and Lent Terms, and these were largely attended. Many single lectures were delivered in Swansea and district by members of the College Staff. In connexion with the General Course of Reading prescribed for students in the Faculty of Arts, 12 lectures open to the public were delivered in the College. The Coal Owners' Univ. Trust Fund provided for one Tutorial Class and several short courses of lectures as well as some single lectures in various places in West Wales.

UNIVERSITY COLLEGE OF THE SOUTH-WEST OF ENGLAND, EXETER

PRESIDENT—H.R.H. THE PRINCE OF WALES and DUKE OF CORNWALL.
DEPUTY PRESIDENT—Sir HENRY Y. B. LOPES, Bart., M.A., D.L.
PRINCIPAL—W. H. MOBERLY, D.S.O., M.A. Ox.
REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Astronomy
Lockyer, W. J. S., M.A. Camb., Ph.D. Gott. Hon. Lectr.

Biology
Sager, J. L., M.A. Camb. Lectr.
Cumming, A. M., A.R.C.S.I. Asst. Lectr.

Chemistry [Prof.
Lewis, W. H., M.A. Ox., F.I.C.
Glasstone, S., M.Sc., Ph.D. Lond., A.I.C. Lectr. in Physical C.
King, Miss R., M.Sc. Lond. Lectr.
Riggs, E. J., B.Sc. Lond. Demr.

Classics
Fletcher, F., M.A. Ox. Lectr.
Gordon, Mary L., M.A., B.Litt. Ox. Asst. Lectr.

Cornish Studies [Asst. Lectr.
Henderson, C. G., B.A. Ox.

Education and Psychology
Watkins, S. H., M.A. Wales, Ph.D. Leip. Prof.
Walker, Miss A. J., M.A. Birm., B.A. Lond. Lectr.
Mathias, Miss S. Y., M.A. Liv. Lectr.
Owen, W. J., M.A. Asst. Lectr.
8 Assts. and Pt.-time Lectrs. and Instrs. in Teachers' Training Dept.

English
Horrox, L., M.A. Camb. Prof.
Gollancz, Prof. Sir I. (v. p. 122) Hon. Leofric Lectr. in Old E.
Wright, Miss B. D., M.A. Edin. Lectr.
Martin-Clarke, Mrs. D. E., B.A. Camb. Asst. Lectr.
De Reyes, Miss C. M., B.A. Birm. Asst. Lectr.

Geology and Geography
Clayden, A. W., M.A. Camb, Visiting Director.
Lewis, W. S., B.Sc. Lond., F.G.S. Lectr.
Williams, D. T., B.A. Wales Asst. Lectr.
Baron, W. P., B.A. Lond. Demr.

History and Economics
Harte, W. J., M.A. Ox. Prof.
Patterson, E. J., M.A. Camb. Lectr.
Whyte, W. H., M.A. Leeds Lectr.

Asst. Lectrs.:
Wilkinson, B., M.A. Manc.
Handcock, W. R., B.A. Ox.

Keltic
Jenner, H., M.A. Wales Hon. St. Petrock's Lectr.

Law
Morgan, J. G., B.A. Ox., LL.B. Lond. Lectr.

Lectrs. in Book-keeping, etc.:
Bromhead, C. D., A.C.A.
Webster, J. E.

Mathematics
Brown, T. A., B.Sc. Edin., B.A. Camb. Prof.
Mallinson, H. V., B.A. Camb., B.Sc. Lond. Asst. Lectr.
Unthank, H. W., M.A. Camb., B.Sc. Lond. Asst. Lectr.

Modern Languages
Schopp, J. W., M A. Lond. Lectr.
Wilson, Miss M., B.A. Dub., L. ès L. Paris Asst. Lectr.
Starkie, Miss, B.A. Ox. Asst. Lectr.
Laumain, Mlle. Asst.

Music
Bullock, E., Mus.D. Durh., F.R.C.O. Lectr.

Pharmacy
Ware, A. H., Ph.C. Lectr.

Philosophy
Levine, I., M.A., D.Litt. Glas. Lectr.

Physics
Newman, F. H., D.Sc. Lond., A.R.C.Sc. Lectr.
Searle, V. H. L., B.Sc. Lond. Asst. Lectr.
Rowe, W., B.Sc. Lond. Asst. Demr.

University Extension

Chairman of Committee for External Studies and Joint Hon. Sec. for Tutorial Classes: E. J. Paterson, M.A.

GENERAL INFORMATION

Founded 1865. Organized as University College, 1901. Incorporated 1922.

Classes in Arts, Science, Economics, Law, Music, Agr. and Horticulture prepare for London Univ. degrees. Courses are provided for Elementary and Secondary teachers, for entrance into Civil Service, and for the first year of Medical study. The Training Department is recognized as a Training College for Elem. and Secondary teachers. Attached to the College is a School of Pharmacy. The Royal Albert Memorial Library (60,000 vols.) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College. A Dept. of Music was opened in Oct. 1924.

ADMISSION. Minimum age, 17: though relaxation may be made under special circumstances.

TUTORIAL BOARDS in Arts and Science have been appointed to supervise the studies of students.

FEES. Sessional: Intermediate course, 16 to 20 gs.; final course in Arts, 20 gs.; Science, £25.

AFFILIATION. The College is affiliated to the Univs. of Ox. and Camb. It is recognized by the Camb. Special Board for Med., and the Conjoint Med. Board as a place of instruction in Chem., Physics and Biol., etc.

RESIDENTIAL FACILITIES. For *women*—(*a*) Hartwell House (36), sessional fee, £50-£58; (*b*) College Hostel (68); (*c*) Diocesan Church Hostel (30). For *men*—Grendon House (55), £60. All women students not living at home must reside in hostel. Men students may live in licensed lodgings: cost about 30s. per week for board and lodging. All students in lodgings are subject to the discipline of the Supervisor of Lodgings. The Halls have been renamed (*a*) Hope Hall, (*b*) Bradninch Hall, (*c*) Sandford House. Streatham Hall for 70 men students will be opened Oct. 1925.

PUBLICATIONS. *Calendar*, issued (free) in July; *College Magazine* (terminally); the *College Field Club Proceedings*.

THE YEAR 1923–24

BENEFACTIONS. Miss K. M. Lazenby, £250; Messrs. A. Wheaton & Co., £50; British Assocn., scholarship to enable student to attend their meeting and a money grant.

NEW BUILDING. Conversion of Streatham Hall into residence for 70 men students approved.

NEW POSTS. Assistants in Mod. History and in Mod. Languages; part-time Lectr. in History; Asst. Demonstrators in Physics, in Chemistry, and in Geography; resident tutor for extra-mural work in Cornwall (and to lecture on Cornish Studies in the College in summer term).

OTHER NEW DEVELOPMENTS. Evening course of advanced lectures in Economic subjects, suitable for entrants into various professional and commercial occupations. Establishment (Oct. 1924) of a Dept. of Music. Scheme framed in consultation with Plymouth Education Authority for institution of degree and diploma courses in Engineering (Civ., Elec., Marine, and Mech.), and in Commerce to be conducted in Plymouth and for extension of Law teaching and Extra-mural work now carried on there. Pending the maturing of the scheme the College Council will be represented on a Plymouth Technical Schools Advisory Committee, and the Principal of the College will supervise the Plymouth Technical Schools. Board of Education's Teachers' Certificate examn. conducted by the College. Association of Women Home Students.

VISITS RECEIVED. Univ. Grants' Committee; Devon Education Committee's Christmas Vacation School, English Folk Dance Society's Easter Vacation School; Geographical Assocn.'s annual meeting; reunion of representatives of extra-mural classes.

RESIGNATIONS. Principal H. J. W. Hetherington on election to chair of Moral Philosophy in Glasgow Univ; Prof. A. E. Morgan, on appointment to chair of English in Sheffield Univ.; Miss H. M. Buckhurst; Dr. L. du Garde Peach, Asst. Lectr. in English, appointed Organizing Secretary of the College Appeal.

NUMBER OF STUDENTS. Full-time undergraduate, 307 (including 204 in Teachers' Training Dept. and 10 Pharmacy Diploma students); advanced, 2. Part-time regular, 33 (including 23 Law students), occasional, 35.

DEGREES OBTAINED. B.A., 35; B.Sc., 21; M.A., 1; M.Sc., 1.

UNIVERSITY EXTENSION. 3 Tutorial and 6 one-year courses (W.E.A.); students, 277.

UNIVERSITY COLLEGE OF NOTTINGHAM

PRESIDENT—His Grace the DUKE OF PORTLAND, K.G.

VICE-PRESIDENTS—Sir JESSE BOOT, Bart.; Alderman E. HUNTSMAN (Chairman of Council); Lt.-Col. HENRY MELLISH, C.B.; JOHN G. SMALL, J.P.

PRINCIPAL—W. H. HEATON, M.A.

REGISTRAR—J. E. SHIMELD, F.C.I.S.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Biology

Carr, J. W., M.A. Camb. Prof.

Lectrs. and Demrs.:

Holden, H. S., D.Sc. Manc. (Botany)

Bexon, Dorothy, M.Sc. Lond. (Bot).

Chesters, Alice E., B.Sc. Liv. (Zool.).

Hutchinson, Harriet J. (Histology and Physiology).

Chemistry and Metallurgy

Kipping, F. S., Ph.D. Mun., D.Sc. Lond., F.I.C., F.R.S. Prof.

Lectrs. and Demrs.:

Prideaux, E. B. R., M.A. N.Z., D.Sc. Lond., F.I.C.

Firth, J. B, D.Sc. Manc., F.I.C.

Trotman, S. R., M.A. Camb., F.I.C.

Watson, F. S., M.Sc. Manc.

Laxton, F. C., B.Sc. Lond., A.I.C.

Driver, J. E., M.Sc. Lond., A.I.C.

Shaw, B. D, B.Sc. Lond.

Bentley, A. O., Ph.C.

Classics and Philosophy

Granger, F. S., D.Lit., M.A. Lond. Prof.

Lectrs.:

Barker, E. P., M.A., D.Litt. (Classics).

Economics and Commerce

Kirkaldy, A. W., M.A., B.Litt. Ox., M.Com. Birm. Prof.

Radford, A., B.Sc. Econ. Lond. Lectr. in E.

Howard, S. C. Lectr. in C.

Blythen, S., F.C.A., Prof. of Acctcy.

9 Lectrs. in Insurance and Practical Banking

Education

Wortley, H. A. S., M.A. Ox. Prof.

Lectrs.:

Newton, W. H., B.Sc. Lond.

Moncrieff, Miss A., M.A. Edin.

Becket, Miss E. M., M.A. Lond.

Ward, Miss L. M.

Adam, Anne K.

Lewis, M. M., M.A. Lond.

Lectrs. in Hygiene and in Needlework.

2 Lectrs. in Phys. Exercises.

Engineering and Technology, v. also Textiles [Prof.

Bulleid, C. H., O.B.E., M.A.Camb., A.M.I.C.E., M.I.Mech.E.

Lectrs. and Demrs.:

Richardson, W. A., D.Sc, B.Sc. (Eng.) Lond. (Civil E.).

Cotton, H., M.B.E., M.Sc. Lond., A.M.I.E.E. (El. E.)

Dickson, J. M., B.Sc. Lond.(M.E.), A.M.I.Mech.E.
Bedford, J., A.M.I.Mech.E., A.M.I.A.E.
Wilde, J. H., B.Sc. (Eng.) Lond.
24 other Technical Teachers.

English
Bond, R. W., M.A. Ox. Prof.
De Castro, Inez, M.A. Ox. Lectr.
Hewitt, R. M., M.A. Ox. Lectr.
Selby, Alice Lectr.

Geology and Geography [Prof.
Swinnerton, H. H., D.Sc. Lond.
Beasley, C. G., B.A. Lond. Lectr. in Geog.
Richardson, W. A., D.Sc. Lond., A.M.I.Min.E. Lectr. in Geol.
Clift, S. G., B.Sc. Lond. Lectr. in Geol.

Hebrew [Lectr.
Sanders, H. F., B.A., B.D. Lond.

History
Owen, L. V. D., M.A. Ox. Prof.
Guilford, E. L., M.A. Camb. Lectr.
Brameld, Nina, M.A. Lond. Lectr.

Hygiene and San. Sc.
Cotterill, W. H., M.R.San.I.
Sutton, J. A., Cert.R.San.I.

Law
May, H. R. D., M.A., LL.B. Director of Dept.
Cursham, C. Lectr.

Mathematics
Piaggio, H. T. H., M.A. Camb., D.Sc. Lond. Prof.
Green, H. G., M A. Camb. Lectr.
Wells, F. A., B.A. Camb. Lectr.
Underwood, F., B.Sc. Lond. Lectr.
5 other Lectrs.

Metallurgy, v. Chem.

Military Science [Dir.
Pickbourne, Capt. H., B.A. Lond.
2 Lectrs. and Instrs.

Mining
McMillan, W. H., B.Sc. Glas., M.I.Min.E. Prof.
Watkins, W. G., M.I.Min.E., M.I Mech.E. Lectr.
Whitaker, J. W., B.Sc. Lond., A.I.C. Lectr.
Watson, J. M. R., B.Sc. Glas., A.M.I.Min.E. Lectr.
2 other Lectrs.

Modern Languages
Weekley, E., M.A. Camb. Prof.

Lectrs.:
Peck, Mrs. L. (English Phonetics).
Bourdache, E., B ès L. (French).
Guigou, Mlle. M., L. ès L. (French).
Schweizer, W. R , Ph D. (German).
Moroni, Mme. (Italian).
Hewitt, R. M., M.A. Ox. (Portuguese).
Lavrin, Prof. J. (Russian and Slavonic).
Chamberlain, G. L., M.A. Edin. (Spanish).

Music [Director.
Johnson, B., Mus.B. Camb.
Kirkaldy, Mrs. Tutor.

Lectrs.:
Henniker, L., B.Mus. Ox., F.R C.O.
Kirkaldy, Miss E., B.Mus. Ox.
Mountney, F., L.R.A.M.
Barber, E. M., L.R.A.M.

Physics [Prof.
Barton, E. H., D.Sc. Lond., F.R.S.

Lectrs. and Demrs.:
Shaw, P.E., B.A.Camb., D.Sc.Lond. (Dir. Sub-Dept., Metrology).
Franks, A. H., B.Sc. Lond.
Browning, Helen, M.Sc., Ph.D. Lond., F.Inst.P.
Davy, N., B.Sc. Lond., A.R.C.S.
3 other Lectrs. and Demrs. in Telegraphy, etc.

Physiology, v. Biol.

Technology, v. Engin., Textiles

Textiles
Davis, W., M.A. Edin. Prof.

Lectrs.:
Barr, J. (Yarn Testing).
Trotman, S. R., M.A. Camb., F.I.C. (Dyeing and Bleaching).
Richardson, L. G. (Dyeing and Bleaching).
6 Demrs.

Zoology, v. Biol.

University Extension
Peers, Prof. R., M.A. Liv. Hd. of Dept.
De Sola Pinto, V., M.A.
Kerman, Miss F., B.A.
Wright, G. G. Neill, B.A., B.Ed. Edin.
Thompson, Miss E. G., B.A. Ox.
Guilford, E. L., M.A. Camb.
Sewell Harris, E., M.A.
2 other Lectrs and an Organizer.

GENERAL INFORMATION

The College, opened in 1881, is in the centre of the city. The Free Public Library is at present housed in the College building. New buildings are being erected on a site 3 miles distant.

COURSES: For London degrees in Arts, Econ., Com., Div., Science, Law, Med., Agric., Engin., and Mining; Associateship of the College in Comm., Geog., Adult Education, Engin., Mining, Mine Surveying, Hosiery, Dyeing and Bleaching (each 3 yrs.); Social Study Diploma (1 yr.); Bd. of Educn. Elem. Teachers' Certifs. and Cambridge Secondary Teachers' Diploma; L.D.S.; Assoc'ships of the Insts. of Chem. and Physics; Colliery Manager's Certif.; Nat. Diploma of Inst. of Mech. Engineers; Civil Service Appointments; D.P.H.; Pharmacy Diplomas; L.R.A.M. and L.R.C.M.; Post-grad. and Research courses in Arts and Pure Science. Special English course for Foreigners.

Evening Classes, including some held on Thursday aftn. and Sat. morning and aftn., for London B.Sc., B.Sc. Econ., B.Sc. Engin. and Interm. Arts; St. And. L.L.A.; Comml.; Dispensing and Pharmacy; Engin. and Technology; Mining; Textiles, including Yarn Testing, Hosiery, Dyeing.

The session for Day Classes is Sept.-July; Evening, Sept.-April.

FEES. Tuition composition, per annum: Interm. or Degree courses in Arts, Div., or Econ.—20 gs.; in other Faculties, or Diploma courses in Commerce, Engin., Mining, Mine Surveying, Pharmacy, or for A.I.C. or A.I.P.—30 gs.; Diploma course in Geography—21 gs.; Social Study Diploma (complete course)—£10; L.D.S.—18 gs.; Colliery Manager's Certif.—6 gs.; D.P.H. (complete course)—30 gs.; English course for Foreigners—£12; Registration fee, £1 p.a.; Union fee, £1 : 1s. p.a.

Evening Classes, 15s. per session.

RESEARCH SCHOLARSHIPS in Arts and Science of from £50 to £75 are awarded annually in Dec. Special facilities for research in all subjects.

RESIDENCE. Mapperley Hall (men) and Cavendish House (women) primarily for Elem. Training students. Waverley House (men) and Hollygirt (women)—inclusive fee, 30s. and 27s. 6d. per week. Registered lodgings, 30s. to 40s. Students are, when possible, placed with private families.

UNIVERSITY EXTENSION. Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by 3 staff tutors, 2 organizing lecturers, and many part-time tutors and lecturers.

PUBLICATIONS. *Calendar* (Oct.), 1s.; Day and Evening *Prospectuses*, 2d.; *The Gong*, 3 times a year.

THE YEAR 1923–24

BENEFACTIONS. Sir Jesse Boot, £2000 for Sports ground.

A NEW DEPARTMENT was established in conjunction with the East Midlands Law Society primarily to meet the requirements of the Solicitors' Act, 1922, and also to prepare students for the Bar or the London LL.B. examns. A Department of Music was constituted.

CO-OPERATION. A Joint Course for the London B.Sc. in Agric. was arranged with the Midland Agric. and Dairy College.

RESIGNATIONS. A. Drew, Lectr. in Education, appointed Inspector under Croydon L.E.A., succeeded by M. M. Lewis, Asst. Master in a London School; B. A. Wright, Univ. Extension Tutor, appointed to a post in the Univ. of Glasgow, succeeded by V. De Sola Pinto from the Sorbonne; C. A. Mace (Classics), appointed to a post in Univ. of St. Andrews; H. Lambourne, appointed Head of Chem. Dept. of Borough Polytechnic; Prof. W. Robinson (Technology); A. Parr (Metal work); W. Hollingworth (Wood Work).

STUDENTS. Full-time, preparing for bachelorship, 240 (including women—85); for diploma, 182 (w.—93); research workers, 33; total day students, 758. DEGREES OBTAINED: B.A., 17 (w.—7); B.Sc., 13 (w.—3); B.Sc. Eng., 11; B.Sc.Mining, 1; M.A., 1; M.Sc., 6.

UNIVERSITY EXTENSION WORK. Tutorial classes, 44; preparatory, 27; extra-mural class students, 1516; 4 other courses of lectures; 41 public lectures in the College. Summer School attended by 56 students. Notts Miners' Welfare Committee voted £700 p.a. for an organizing lecturer in mining districts.

UNIVERSITY COLLEGE, READING

VISITOR—THE DEAN OF CHRIST CHURCH, OXFORD.

PRESIDENT OF THE COURT OF GOVERNORS—J H. BENYON, M.A., Lord-Lieutenant of Berkshire.

VICE-PRESIDENTS—Sir HALFORD J. MACKINDER, M A.; Mrs. G. W. PALMER; ALFRED PALMER (CHAIRMAN OF COUNCIL).

PRINCIPAL—W. M. CHILDS, M.A.

TREASURER—Sir WILLIAM A. MOUNT, Bart., C.B.E., M.A.

SECRETARY AND REGISTRAR—The Rev. F. H. WRIGHT, M.A.

TUTORIAL SECRETARY—H. KNAPMAN, M.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture, etc., v. *infra*

Art (Department of Fine Arts)
Seaby, A. W. Prof
7 Teachers and an Asst. in Drawing and Painting, Design, Modelling, Handicrafts.

Botany, v. also Agr.
Stiles, W., M.A., Sc.D. Camb. Prof.
Saxton, W. T., M.A. Camb., F.L.S. Lectr.
Prankerd, Theodora L., B.Sc. Lond., F.L.S. Lectr.

Chemistry, v. also Agr. [Prof.
Bassett, H., D.Sc. Lond., Ph.D. Mun., D. ès Sc. Nancy, F.I.C.
Dodgson, J. W., B.Sc. Lond. A.I.C. Lectr.
Maxted, D. R., B.Sc. Lond., A.R.C.Sc. Lectr.
A Sessional Lectr.

Classics
Ure, P. N., M.A. Camb. Prof.
Fordyce, C. J., M.A. Ox. and Glas. Lectr.
Haigh, W., M.A., B.Sc. Lond. Lectr. (in German also).
Toynbee, Jocelyn, M A. Camb. Lectr.
Ure, Annie D, B.A. Lond. Hon. Research Fellow

Commerce
Taylor, H., F.L.A.A. Lectr.
2 Assts.

Dairying, v. *infra*

Domestic Subjects
Wood, Mrs. E. May Lectr. in charge of Dept.
3 Assts. and a Teacher of Dress-making and Needlework.
1 Sessional Lectr. in Hygiene.

Economics
Buer, Mabel C., B.Sc. Lond. Lectr.

Education [Sen. Lectr.
Cooke, H. S., M.A. Ox. and Cape
Bolam, Mary, M.A. Dub. Lectr.
Etty, J. L., M.A. Ox. Lectr.
Glason, J. A., M.B.E. Lectr.
Mellor, Ethel, D. ès Sc. Paris, A.R.C.Sc. Lectr.
Walker, Alice H., A.R.C.O. Lectr.

Wolters, A. W. P., M.A. Lond. Lectr.
2 Sessional Instrs. in Physical Training.

English Language & Lit. [Prof.
Dewar, R., M A. Glas. (E Lit)
Morley, Edith J. (E. Lang.) Prof.
Dyson, H. V. D., B.A., B.Litt. Ox. Lectr.
Lee, Margaret L., M.A. Ox. Lectr.
A Sessional Asst. in Phonetics.

French [Prof.
Desseignet, J , Ag. de l'U Paris.
Paton, Dora A., B.A. Ox. Lectr.
Salmon, Yvonne M., L. ès L. Lectr.
A Sessional Asst.

Geography
Spicer, E. C., M A. Ox. Lectr.
A Sessional Lectr. and Asst.

Geology
Hawkins, H. L., D Sc. Manc., F.G S. Prof.
Dwerryhouse, A. R , D Sc. Leeds, M.Sc. Manc., F.G.S. Lectr.

German, v. Classics

History, Modern
Stenton, F. M., M.A. Ox. Prof.
The Principal Hon. Prof.
Sacret, J. H., M.A. Ox. Lectr.
Stenton, Mrs. F. M., B.A. Lond. Lectr.
Peyton, S. A. Asst. Lectr.

Mathematics
Neville, E. H., M.A. Camb. Prof.
Ashcroft, Lucy, M A. Dub. Lectr.
Clatworthy, J P., B.Sc. Lond. Lectr.
Knapman, H , M.A. Camb. Lectr.
Ternouth, Elsie J., M.A. Glasg. Lectr.
Bowler, F. T., B.Sc. (Eng.) Lond., A.M.I C.E. (Applied Mech.) Asst. Lectr.
3 Teachers of Machine Drawing and Applied Mechanics.

Music
Allen, Sir Hugh P., M.A. Camb., D.Mus. Ox. Visitor of Dept.
17 Teachers.

Philosophy
De Burgh, W. G., M.A. Ox. Prof.
Ward, S. B , B.A. Ox. Lectr.

Physics
Crowther, J. A., M.A., Sc.D. Camb., F.Inst. P. Prof.
Bond, W. N., D.Sc., B.Sc. (Eng.) Lond., A.R.C.Sc., F.Inst.P. Lectr.
Pearson, R L , A.M I.E.E. Lectr.
Littlewood, T. H., M A. Ox., B.Sc. Lond. Hon. Research Fellow.

Psychology
Wolters, A. W. P., M.A. Lond. (also Lectr. in Educn) Lectr.

Spanish
A Sessional Teacher.

Vet. Hygiene, v. Agric.

Zoology
Cole, F. J., D.Sc. Ox. Prof.
Eales, Nellie B., B.Sc., Ph.D. Lond. Lectr.
A Museum Asst.

Agriculture and Horticulture

Agriculture
Pennington, S., B.Sc. Edin., M.R C.V.S. Prof.
Simpson, J. S., B.Sc. Leeds Costings Officer.
An Instr. in Poultry.
County Organizer and 4 Instrs. for Berkshire.

Agr. Bacteriology, v. also Dairy B.
Mason, Grace H., N.D.D. Lectr.

Agr. Botany
Percival, J., Sc.D. Camb., F.L.S. Prof.

Erith, Adela G., B.Sc., Ph.D. Lond. Lectr.
Thomas, A. S., B.Sc. Lond. Demr.

Agr. Chemistry, v. also Dairy C.
Neville, H. A. D., M.A. Camb., B.Sc. Lond., F.I.C. Prof.
Murray, J. A., B.Sc. Edin. Lectr.
Nicholson, H. H., M.A. Camb. Lectr.
Thompson, J., Ph.D. Heid., F.I.C. Analyst.
Harris, E. T., M.A. Camb., A.I.C. Demr., etc.
Davies, W. L., M.Sc. Wales Advisory Officer.

Building Construct., etc. [Lectr.
Hitchins, W. W., M.S.A., P.A.S.I. An Asst.

Dairy Bacteriology
Williams, R. Stenhouse, M.B., C.M., B.Sc. Edin., D.P.H. Camb. Research Prof.
Mattick, A. T. R., B.Sc. Lond. Lectr. (Dairy Hygiene). 2 Assts.

Dairy Chemistry
Golding, J., F.I.C. Research Chemist.
Mattick, Mrs. E., M.Sc., Ph.D. Bris. Asst. for Research
An Asst.

Dairy Farming
Mackintosh, J., O.B.E., N.D.A., N.D.D. Lectr.
2 Assts.

Economic Entomologist
Mosley, F. O., F.L.S.

Economic Mycologist
Buddin, W., M.A. Camb.

Horticulture
Cobb, A. J. Lectr. and Instr.
2 Assts.

Machinery
An Instr.

Plant Pathologist
Mosley, F. O., F.L.S.

Veterinary Hygiene
Male, G. P., M.R.C.V.S. Lectr.

University Extension

Tutors, 3.

British Dairy Institute (occupying a building on the College site and controlled by a committee representing the British Dairy Farmers' Assocn. and the College). Manager and Chief Instructor—A. Todd. 2 Asst. Instrs.

GENERAL INFORMATION

"The University Extension College, in conjunction with the Schools of Science and Art, Reading," was opened in 1892 and incorporated under the Companies Acts in 1896, and became the University College, Reading, in 1902. It has an endowment of £250,000.

Library, 32,000 vols., including Overstone collection (7500 vols.) of books on Polit. Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire) 136 periodicals are received. Museums: Zool. and Hist. and Archæol. Laboratories: Bot., Chem., Geol., Physics, Psych., Zool. Fine Art Studios. School of Music. Gymnasium. Two farms (359 and 141 acres) and Hortic. Station.

Faculties: Letters, Science, Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

Departments: Fine Arts, Music, Domestic subjects.

Admission. Candidates for Degree courses must matriculate before

admission. Entrance examn. for Diploma courses in Agric., Dairying, Hortic., Domestic subjects.

DEGREE COURSES are provided for the London B.A., M.A., Ph.D., B.Sc. (Pass and Hons.), B.Sc. in Agric. (3 yrs.) and Hortic. (4 yrs.), and the 2nd examn. for Med. degrees, Pt. I., of London.

COLLEGE DIPLOMA (Associateship) COURSES: 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Educl. Handicrafts, Hortic., Letters; 3 yrs.—Fine Art, Music, Distinction in Agric., Dairying, Domestic subjects, or Hortic. College Diploma Course (post-graduate) in Education (1 yr.).

OTHER COURSES for College Certifs. in Agric. (6 mos.), Commerce, Domestic subjects, Geography, Horticulture, Secretarial subjects (1 yr.), Metal Work, Wood Carving, Embroidery, Leather Work, Weaving, Writing and Illumination (2 yrs.); for the 1st examn. of the R.C.P. and R.C.S., the Camb. Teachers' Certif. (1 yr.), British Dairy Farmers' Assocn. examns. (6 mos.), L.R.A.M., A.R.C.M., etc.; Special course in Illustration.

FEES. For Tuition: Degree or Diploma course—Arts, £25 p.a., Sc., £30 p.a. (Dairying, £35 for 1st, £41 for 2nd year; Fine Arts, £18); Certif. course—£18 to £30.

SCHOLARSHIPS, ETC., FOR GRADUATES. Two Research Fellowships, and several Scholarships in connexion with the HALLS OF RESIDENCE, which provide accommodation for 400 students, men (£80 per session of 30 weeks) and women (£54 to £64). Sanatorium attached.

UNIVERSITY EXTENSION, ETC. Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc. Evening classes are held in Machine and Building Constn., Builders' Quantities, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

PUBLICATIONS. *Calendar* (Sept.), 6d.; *Tamesis* (students'), terminally.

THE YEAR 1923–24

BENEFACTIONS. Endowment of Library, £20,000; Reading Citizens Endowment Fund, £7279.

NEW BUILDINGS. New Laboratories for Agr. Botany, including (*a*) Elementary, 51 ft. by 22 ft.; (*b*) Advanced, 41 ft. by 17 ft.; (*c*) Museum, 40 ft. by 19 ft.; Research, 20 ft. by 17 ft.; and (*d*) Private, Preparation, and Dark Rooms. Enlargement of premises used for instruction in Dairying (4 new rooms). A War Memorial Tower, 60 ft. high and 14 ft. square, with a Clock which strikes the hours upon a bell weighing 53 cwt. A students' restaurant with the necessary kitchens, etc. (main room 74 ft. by 25 ft.). A dining hall for Wessex Hall of Residence.

The National Institute for Research in Dairying at Shinfield. In 1920 the Shinfield Manor House and estate of about 350 acres adjoining the College Farm, was purchased for £28,000. Here existing buildings have been adapted and equipped, and extensive new buildings and plant have been provided. The Institute, which was formally opened by Viscount Elveden, includes Chemical and Bacteriological Laboratories, Dairy, Library, Offices, and Buildings, equipped for raising heat, light, power, steam, and water. The Experimental Farm has been stocked, and new buildings have been provided

for Food Stores, Granaries, and Cattle. The capital outlay in connexion with the several buildings has been £70,000.

An EXCHANGE OF PROFESSORS, each giving a special Course of Lectures, was arranged with Bristol Univ. Dr. A. R. Dwerryhouse, F. G. S., M.R.I.A., examined at Cork and Dublin in Geology, and Dr. Nellie B. Eales visited Toronto, Harvard, etc. Prof. Stenhouse Williams and J. Golding of the Dairy Research Institute visited the World's Dairy Congress at Washington and Philadelphia, and the latter lectured in Agr. Colleges in Ontario and New Jersey.

RESIGNATION. Prof. W. G. Duffield, appointed Director of the Solar Research Observatory established by the Australian Commonwealth, succeeded by J. A. Crowther from Cambridge.

DEGREES OBTAINED. First Degrees, Honours, 63 (including women—36); Ordinary, 54 (w.—30); M.Sc., 2; Ph.D., 1. Eighty-seven Diplomas were awarded (61 to women).

NUMBER OF STUDENTS. Preparing for First Degrees, 312, including 210 women; for First Diplomas, 261 (187 women); post-graduate and research, 6. Other day students, 340, and evening students, 529.

THE UNIVERSITY COLLEGE OF SOUTHAMPTON

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.P., K.T.

PRESIDENT—CLAUDE G. MONTEFIORE, M.A., D.D.

VICE-PRESIDENT—ALEX HILL, M.A., M.D., F.R.C.S.

TREASURER—Sir RUSSELL BENCRAFT, M.R.C.S., L.R.C.P.

PRINCIPAL—KENNETH H. VICKERS, M.A.

REGISTRAR—GEORGE GRANT, B.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Art [Instructress.
Conway, Miss E. I., A.R.C.A.
2 Assts.

Botany
Mangham, S., M.A. Camb. Prof.
Loader, Miss F. M., B.Sc. Lond. Lectr.
Gibbs, R. D. Demr.

Chemistry
Boyd, D. R., D.Sc. Glas., Ph.D. Heid., F.I.C. Prof.
Smith, A. E. Clarence, B.A. Camb., A.I.C. Lectr. in Physical C.
Smith, F. J., B.Sc. Lond. Asst. Lectr.
Tully, J. D., B.Sc. Lond., A.I.C. Demr.

Classics
Forsey, G. F., M.A. Lond. Reader.
Sinclair, T. A., B.A. Camb. Asst. Lectr.

Commerce [Reader.
Scholfield, A., M.Com. Manc.
Plummer, A., B.Sc. Lond. Lectr.

Education and Philosophy
Cock, A. A., B.A. Lond. Prof.
Dudley, G., B.A., LL.B. R.U.I. (Lectr. in Logic) Sr. Lectr.
Green, Mrs. A., M.A. Manc. Lectr.
Grindrod, G. H., M.A. Ox. Lectr.
Steel, Miss M. J., M.A. Edin. Lectr.
Ricks, Miss E. M. Asst. Lectr.
Watson, A. Asst. Lectr.

Economics
The Reader in Commerce. Lectr.

Engineering, Civ. and Mech.
Eustice, J., B.Sc. Lond., A.R.S.M., A.M.I.C.E. Prof.
Mann, E. E., M.Sc. Leeds, A.M.I.C.E. Lectr.
Glover-James, H., Dip. Eng. Edin. Lectr.
Ford, G. P. Asst.
Moyle, R. C. Demr.

Engin., Elec., v. Physics

English
Margoliouth, H. M., M.A.Ox. Prof.
Aubrey, Miss E. R., M.A. Lond. Lectr.
Crawford, S. J., M.A. Belf., B.Litt. Ox. Lectr.

Geography
Rishbeth, O. H. T., M.A. Ox. Reader.
Miller, Miss F. C., B.A. Leeds Lectr.

Geology and Zoology

Sherriffs, W. R., M.A., D.Sc. Aberd. Reader.

History

Lyttel, E. S., M.A. Ox. Prof.
Horrocks, J. W., D.Lit. Lond. Lectr.
Harlow, V. T., B.A., B.Litt. Ox. Asst. Lectr.

Hygiene for Men

McKaig, Andrew, M.B., Ch.B. Edin. Lectr.

Hygiene for Women

McKaig, Mrs. Andrew, M.B., Ch.B. Edin. Lectr.

Law [Reader.

Cook, W. G. H., LL.D., M.Sc.

Mathematics, Pure and Applied

Watkin, E. L., M.A. Camb. Prof.
Casson, R., B.A. Camb. Lectr.
Trout, Miss A. M., B.A. Lond. Lectr.
Hamilton, G. H., B.A. Camb., B.Sc. McGill Lectr.

Music

Leake, G., Mus.Bac. Durh., F.R.C.O. Prof.
Osborne, G. H., F.R.C.O. Lectr.
Faulkner, Mrs., A.R.C.M. Lectr.

Philosophy, v. Educn.

Physics & Electrical Engineering

Stansfield, H., D.Sc. Lond., A.M.I.E.E. Prof.
Spary, P. G., B.Sc. Lond., M. Eng. Sheff., M.I.E E., A.M.I.C.E. Lectr. in Electro-technics.
Tomlinson, H. J., B.Sc. Lond., A.I.E.E. Lectr.
Chester, C. E., B.Eng. Sheff., A.M.I.E.E. Asst. Lectr.
Cox, H. B., O.B.E. Demr.

Romance Languages and German

Patchett, E. W., B.A. Camb. Prof.
Hamilton, Miss G. H. Lectr.
Brunet, J. O., L. ès L. Asst. Lectr.

Spanish [Lectr.

Lindsay, B., Ph.L., Valladolid

Zoology, v. Geol.

GENERAL INFORMATION

Founded 1850; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College in accordance with a scheme of the Board of Education, 1902.

Classes in Arts and Science prepare for the degrees of the Univ. of London; a Commercial course for the B.Sc. (Econ.) and B. and M.Com. The Coll. has a Dept. of Engineering—Civ., Mech., and Elec. It provides courses for Elem. and Secondary Teachers, for entrance into the Civil Service, the first year of Med. Study, Pharmacy, Surveying, etc. It is recognized as a Training Coll. for Elem. Teachers. It is affiliated to the Univ. of Camb. Through its Evening Classes (attended by upwards of 400 students) it performs the function of a Technical Institute. A Dept. of Law, instituted in 1923, is recognized as a Law School under the Solrs.' Act. The *Associateship* (Assoc. U.C.S.) implies, unless honorary, attendance at day or evening classes during at least one full session. *Diplomas* are awarded in Commerce, Engineering, Engin. Research, Geography, Advanced Geog., Law, and Music. Special Diploma in English for *foreign students*.

ADMISSION. The minimum age for both Day and Evening students is 16. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

FEES. The sessional fee is £25 for Courses in Arts, £30 for Courses in Science or in Engineering (students whose parents are ratepayers within County Borough, Southampton—£18 : 15s. and £22 : 10s.).

SCHOLARSHIPS FOR GRADUATES. One of £50. One of instruction fees in Educn. Loan fund for senior students.

RESIDENTIAL FACILITIES. South Stoneham Hall of Residence for men; Warden—Prof. A. A. Cock, B.A. South Hill, Hall of Residence for Women; Warden—Mrs. Ashdown. Highfield Hall, a Hall of Residence for Women; Warden—Miss E. R. Aubrey, M.A.

PUBLICATIONS. *Calendar*, pubd. in Sept.; *Hartley Mag.*, terminal, 6d.

THE YEAR 1923–24

A new office, that of Visitor to the College, was created.

A NEW DEPARTMENT of Law was established and classes were held in Southampton, Bournemouth, and Portsmouth by the Reader.

The Examn. for Board of Education Certificate students was conducted, for the first time internally, at the College. The College was honoured by a visit from the Prince of Wales on June 27.

STUDENTS. Full-time, preparing for degrees, 178 (including women—96); other full-time, 103 (w.—53); evening, 400. Degrees obtained: B.A., 19 (w.—15); B.Sc., 18 (w.—8); B.Sc.Eng., 9; B.Sc.Econ., 1.

THE SCOTTISH UNIVERSITIES

ST. ANDREWS ABERDEEN
GLASGOW EDINBURGH

REPRESENTATIVES IN PARLIAMENT

Sir GEORGE A. BERRY, M.B., LL.D.; DUGALD M'COIG COWAN, M.A.; Rt. Hon. Sir HENRY CRAIK, K.C.B., M.A., LL.D.

IN CONSTITUTION these 4 Universities have under the operation of the Univs. (Scotland) Acts, 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers; to define the nature and limits of a professor's duties under his commission; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament.*

FACULTIES. In all the Univs.—Arts, Science, Divinity, Medicine. In all except St. Andrews—Law. In Edin. only—Music. In Glas. only—Engineering.

TERMS. The academic year is divided into three terms—Oct. to Christmas, Jan. to latter part of March, April to end of June or early July.

ADMISSION (v. also p. 5). The Preliminary Examn. Regulations prescribe for a candidate for a first degree in Arts or Science or Medicine that before entering on the curriculum he pass on specified standards an examn. in (1) English; (2) Latin or Greek; (3) Maths.; (4) another (approved) language or Dynamics; provided that Science and Medical Students may substitute French or German for Latin or Greek.

Exemption (*pro tanto*) is granted in consideration of having passed approved equivalent examns. Candidates from abroad, whose native language is other than English, must pass a Special examn. in English (held in March and Sept.; in set works and an oral examn.). Candidates from the British Empire overseas, whose native language is English and who have passed examns. which would admit them to Univs. or Tech. Colleges affiliated to Univs. in their own country, will be exempted, but candidates for degrees in Engineering must show they have a sufficient knowledge of Mathematics (*e.g.*, if from India, such as is implied by a satisfactory pass in the Interm. examn. of an Indian Univ.). Indian students must have passed Interm. examn. in Arts or Science. Similarly the Baccalauréat-ès-Lettres or ès-Sciences will exempt from the Prelim. examn. for Arts or Science courses respectively or for Medical courses; Certificates of Maturity or Grades similar to the French Baccalauréat which would entitle the holder to enter upon a regular course of study in the Univs. of his own country will similarly exempt other students from the continent of Europe; and students of the U.S.A. holding certificates which would admit to a regular graduating course in any of the Univs. or Colleges approved by the Assocn. of American Univs. (v. Appendix XXV.) will be exempt.

N.B. A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy,

Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy; and, if including Arabic, English, Maths., and—for Arts courses—French, the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examn.

The holder of a Degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. Examn.

Applications for exemption on the ground of having passed any of the above-mentioned examns., *or on other grounds*, should be addressed to the Secretary of the Entrance Board, 81 North Street, St. Andrews.

DEGREES and courses leading thereto (v. also p. 13). The *M.A.* (ordinary) course (there is no B A.) extends over 3 yrs. and, except at St. And. (v. p. 294), includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist and Law. A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs. may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns. passed at other Univs. specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And , 1 yr.) are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St. And., 2 courses) of study in each of the 3 terms. The degree is never conferred *honoris causa*. For M.A. (Hons) 4 yrs.' study is generally required.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the M.A. either before or along with it. The standard of the Final examn. is that of the M.A. Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin. may be taken, under conditions as to place of study similar to those for the M.A., after courses covering at least 9 terms.

The *Ed.B.* involves a 2 yrs.' course subsequent to the first 3 yrs. of study for a previous degree, in addition to Professional training or experience as a teacher.

The practical part of the training of students preparing for the *Teaching Profession* is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying for their certificates.

The B.Sc. in Pure Science. The course for the ordinary degree covers 3 yrs. (Edinburgh 4 yrs) and includes from 6 to 9 courses, of which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours requires 4 yrs., and is of a standard not less high than that required for M.A. (Hons.).

The B.Sc. in Applied Science can be obtained as follows : Engineering (St. And., ordinary, 3 yrs. ; Edin., ordinary and honours, both 3 yrs. ; Glas., 4 yrs., the branches in which honours are obtainable being Civ., Mech., Elec., Mining, and Chemical E., and Naval Archit.). Mining Engineering (Edin., ordinary, 4 yrs.). Applied Chemistry (Glas., ordinary, 4 yrs.). Technical Chemistry (Edin., ordinary, 4 yrs.). Architecture (Glas., honours, 4 yrs.). Agric. (Aberd. and Edin., ordinary, 3 yrs. ; honours, 4 yrs. ; Glas., ordinary, 3 yrs.). Forestry (Aberd., ordinary, 3 yrs. ; Edin., ordinary, 3 yrs. ; honours, 4 yrs.). Pharmacy (Glas., ordinary, 3 yrs.). Public Health (Edin. and Glas., 18 months after graduation in Med.). Vet. Sc. (Edin., 4 yrs.).

Higher Degrees in Arts and Science. The D.Sc. in Pure Science, in Engin. (Edin., Glas., St. And.), Pub. Health (Edin., Glas.), Mining (Edin.), Agric. (Edin.), and Vet. Sc. (Edin), and the D Litt. are open to graduates of 5 yrs.' standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa*.

Divinity. The B.D. examn. of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol. course (3 yrs.), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary. The Gifford Lectures in Natural Theology are open to the general public.

Law. The B.L. course (3 yrs.) is open to students who have passed the Arts Prelim. or its equivalent, with Latin (Higher Standard) as one of the subjects. The LL.B. (3 yrs) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL.B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees. The LL.D. is honorary.

Medicine. Three of the requisite 5 yrs. of medical study for the M.B. and Ch.B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. examns. Aberd., Edin., and St. And. extend this concession to courses and examns. in Anatomy and Physiology qualifying for a degree in Science (St. And.—or Arts or Med. ; Edin.—or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd., Edin., Glas.), or, for the M.D. (St. And.—M.D. or Ch.M.), Pub. Health Med. Services, or

2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

Ph.D. See p. 16.

FEES. The Matriculation, 2 gs. *per annum*; inclusive Tuition fees *per annum* in Arts are 15 gs., in Science 25 to 35 gs.; examn. fees for M.A., 7½ gs.; B.Sc., 9 gs.; Divinity, 7½ gs.; Law, 9 gs.; M.B., Ch.B., 33 gs.; graduation, £1. Further information is given in the several Univ. sections.

RESEARCH OR SPECIAL STUDY may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

APPOINTMENTS COMMITTEES have been constituted in all the Univs. to help students to find employment.

SCHOLARSHIPS. Provision for affording Univ. instruction and maintenance to students of small means is probably nowhere more ample than in Scotland. Besides the numerous bursaries, etc., awarded by the Univs., and the Carnegie Trust benefactions (v. *infra*), the Provincial Committees for the Training of Teachers award bursaries, according to the necessities of students, of from £5 to £25, and travelling, hostel, and other special allowances, and Secondary Education Authorities may assist any duly qualified person resident in their areas to enter or attend a Univ., Training Coll., etc.

Scholarships, etc., for Graduates. The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £80 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—two of £200 and two of £400 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£200 for 5 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Blackie—in Greek, £170 for 1 yr. for graduates in Arts who are students of Theology. (6) Hume Brown—in Scottish History, £65 for 1 yr. for graduates in Arts.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.B.; Treasurer, Jas. Davidson.

The annual income of the Trust is about £125,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to

(A). Institutions in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial education of University level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide, *inter alia*, that applicants should hold the Leaving Certif. of the Scottish Educn. Dept. bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has to pass any further prelim. examn. before completing his graduating curriculum. The annual report of the Exec. Committee contains reports of experts on the work of beneficiaries and lists of papers published by them.

Research Fellowships, Scholarships, and Grants awarded for 1923–24: St. Andrews—25, value £3984; Glasgow—30, value £3283; Aberdeen —12, value £1426; Edinburgh—25, value £2774. Total—92, £11,467.

Class Fees paid for 1923–24: St. A.—£4317 for 336 beneficiaries; G.—£25,572 for 2111; A.—£9072 for 765; E.—£15,089 for 1223.

Under a Fourth Quinquennial Scheme of Distribution for the period from Oct. 1, 1920, to Sept. 30, 1925, there has been allocated a sum of £224,300, distributed thus: St. A. centre—£37,200; G.—£69,500; A.—£42,250; E.—£75,350.

THE SCOTTISH STUDENTS' INTER-UNIVERSITIES CONFERENCE. At this Conference, which is held annually, and meets in rotation at St. Andrews, Aberdeen, Glasgow, and Edinburgh, the students of the 4 Univs. discuss matters of general interest to them all. The Students' Representative Council of each Univ. sends 4 delegates, one of whom must be a woman-student. The convener of the Inter. Academic Committee (v. p. 7) also attends and reports on the work of the National Union of Students for Scotland, and each Univ.'s Union and Students' magazine are represented. The President and Secretary of the Conference are the President and Secretary of the Students' Representative Council of the Univ. at which the Conference is held. A record of the work of each Conference is printed and distributed to each of the Univs. concerned. By providing a common meeting-place for the students of the Scottish Univs., this Conference is largely responsible for the feeling of solidarity which is a marked feature of student life in Scotland. The 31st Conference was held at Edinburgh in Jan. 1924. Corresponding Secretary for the N.U.S.—J. P. McDonald, M.A., LL.B., S.R.C. Offices, The University, Edinburgh.

UNIVERSITY OF ABERDEEN

CHANCELLOR—His Grace THE DUKE OF RICHMOND AND GORDON, K.G., G.C.V.O., C.B., LL.D.

VICE-CHANCELLOR AND PRINCIPAL—Very Rev. Sir GEORGE ADAM SMITH, M.A., D.D., LL.D., Litt.D., F.B.A.

RECTOR—Rt. Hon. VISCOUNT CECIL OF CHELWOOD, P.C., K.C. (elected 1924).

SECRETARY OF THE UNIVERSITY—H. J. BUTCHART, D.S.O., B.L.

CLERK AND REGISTRAR OF GENERAL COUNCIL AND LIBRARIAN—P. J. ANDERSON, M.A., LL.B.

UNIVERSITY COURT

PRESIDENT—THE RECTOR.

THE PRINCIPAL, *ex officio.*

THE LORD PROVOST OF ABERDEEN, *ex officio.*

J. E. CROMBIE, M.A., LL.D.

THE RECTOR'S ASSESSOR.

H. J. GRAY, M.A., B.L.

GEORGE DUNCAN, M.A.

GEORGE SMITH, M.A., LL.D.

J. SCOTT RIDDELL, M.V.O., C.B.E., M.A., M.B., C.M., LL.D.

Prof. MATTHEW HAY, M.D., LL.D.

Prof. ASHLEY W. MACKINTOSH, M.A., M.D.

Prof. H. M. MACDONALD, O.B.E., M.A., F.R.S.

Prof. JAS. GILROY, M.A., D.D.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Accounting & Business Methods

Reid, J., M.A., C.A. Lectr.

Grant, John, M.A., C.A. Asst. (Agric. Book-keeping).

Agriculture, v. also Eng., Nat. Hist., Vet. Hyg. [Lectr.

Profeit, W. J., M.A., B.Sc. (Agr.)

Donald, G., B.Sc. (Agr.). Asst.

Findlay, W. M. (Seed Testing) Asst.

Agric. Botany

Clark, R. M., B.Sc., F.L.S. Lectr.

Coutts, E. H. M., M.A., B.Sc. Asst.

Agric. Chemistry

Hendrick, J., B.Sc. Lond. Strathcona-Fordyce Prof.

Hill, Alfred, B.Sc., B.Sc. Agr. A.I.C. Asst.

Hendry, F. W. F., B.Sc., A.I.C. Asst.

Anatomy, v. also Embryol.

Reid, R. W., M.D., F.R.C.S. Reg. Prof.

Lockhart, R. D., Ch.M. Lectr.

Mulligan, J. H., M.B. Asst.

Art [Lectr.

Kelly, W., LL.D. (Architecture)

Rollo, R. Leslie, A.R.I.B.A. (Principles and Hist. of Archit.) Lectr.

Townend, H., M.A. (Painting) Lectr.

Prof. Harrower Lectr. (Sculpture).

Astronomy and Meteorology

Roberts, Owen F. T., B.A. Camb. Lectr.

Banking

Cowie, R. H. Lectr.

Bio-Chemistry

Beard, E., B.Sc., A.I.C. Lectr.

Biology, v. Nat. Hist.

Botany
Craib, W. G., M.A., F.L.S. Reg. Prof.
Skene, MacG., D.Sc. Lectr. in Veg. Physiol.
Barnett, Euphemia C., B.Sc. Asst.
Downie, D. G., B.Sc., B.Sc. (For.) Edin. Asst.

Celtic and Comp. Philology
MacDonald, John, M.A. Lectr.

Chemistry, v. also Agric.
Findlay, Alexr., M.A., D.Sc., Ph.D. Leip. Prof.
Gray, F. W., M.A., D.Sc. Lectr.
Thomas, Wm., M.Sc. Wales, B.A. Camb., Ph.D., A.I.C. Lectr.
Reade, T. H., M.Sc. Birm., B.A. Camb., A.I.C. Lectr.
Evans, W. J. R., B.Sc. Wales. Asst.
Humphries, J. E., M.Sc. Wales, B.A. Lond. and Camb., Ph.D. Lond. Asst.

Classics
Harrower, J., LL.D. Glas., M.A. (Greek) Reg. Prof.
Duff, A. M., B.A. Ox. Asst.
Mordaunt, Frances G., M.A. (Lectr. in Gk. Hist., Lit. and Art) Asst.
Souter, A., M.A., D.Litt. (Humanity) Reg. Prof.
McCallum, R. F. G., M.A. Asst. (Latin).
Cameron, Archibald, M.A. Glas., B.A. Ox. Asst. (Latin).
Harden, D. B., B.A. Camb. Asst. (Latin).

Divinity, v. Theol.

Economics, v. Pol. Econ.

Education
Clarke, J., M.A. Belf. Lectr.
Walker, Norman T., M.A. Edin. Lectr.

Embryology
Low, A., M.A., M.D. Reader.

Engineering
Blackadder, W., D.Sc. Edin., A.M.I.C.E. Jackson Prof.
Stewart, F. R., B.Sc. (Eng.) Glas., A.M.I.C.E. Asst. (*Agric. E.*).
Cruickshank, A., M.C.I. Asst. (*Agric. E.*).

English, v. also Public Speaking
Jack, A. A., M.A. Glas., LL.M. Camb. Reg. Prof. of E. Lit.
Taylor, W. D., M.A. Glas., B.A. Ox. & Aberd. Lectr. (E. Lit.).
Abbott, C. C., M.A. Lond., B.A. Camb. Lectr. (E. Lang.).
Jack, P. M., M.A. Asst.

Fisheries, Scientific Study of
Bowman, A., D.Sc. Lectr.

Forestry
Fraser, G. K., M.A., B.Sc., B.Sc. For. Lectr. in Soils.
Laing, E. V., M.A., B.Sc., B.Sc. For. Asst.

Forest Botany and Forest Zoology
Watt, A. S., B.A. Camb., M.A., B.Sc. Agr., Ph.D. Camb Lectr.

French
Casati, E., L. ès L. Lyons Intm. Lectr. French and Lectr. Comml. F.
Gannon, Eric D., M.A. Camb. Asst.
Morfin, J., B. ès L. Asst.
Ferguson, Mary A. H., M.A. Asst.

Geography
McFarlane, J., M.A. Edin., M.Com. Manc., B.A. Camb. Reader.

Geology
Gibb, A. W., M.A., D.Sc. Prof.
Mackinnon, W. G., B.Sc. Asst.

German [Reader.
Bruford, W. H., M.A. Camb.
Mowat, J. L., M.A. Asst.
Dieth, E., Ph.D. Zür. Asst.

Hebrew and Semitic Langs.
Gilroy, J., D.D. St. And., M.A. Reg. Prof.

History, v. also Law, Theol.
Terry, C. S., M.A., Litt.D. and Hon. Mus.D. Camb., LL.D. Edin. Burnett-Fletcher Prof.
Simpson, W. D., M.A., D.Litt. Lectr. (British Hist.).
Henderson, J. M., M.A. Edin. Asst.

Law, v. *infra*

Logic [Reg. Prof.
Davidson, W. L., M.A., LL.D.
Milne, J. C., M.A. Asst.

Mathematics
Macdonald, H. M., O.B.E., M.A., F.R.S. Prof.
Goodwillie, J., M.A. Camb. & Edin., B.Sc. Edin. Lectr. & Asst.
Dodds, E. M., M.A , B.Sc. Asst.

Medicine, v. *infra*

Meteorology, v. Astron.

Natural History [Reg. Prof.
Thomson, J. A., M.A., LL.D Edin.
Lectrs.:
Rennie, J., D.Sc. (Agr. Zool. and Parasitology).
Neill, R. M., M.A. Glas. (Zool.)
Faulkner, Gwendoline H., B.Sc. Edin. Asst. (Zool.).
Morrison, Thomas A., M.A., B Sc. (Agr.) Asst. (Agr. Zool.).

Philology, v. Celtic

Philosophy, Moral
Laird, John, M.A. Edin , B.A. Camb. Reg. Prof.
De Selincourt, O., B.A. Ox. Asst.

Philosophy, Nat.
Thomson, G. P., M.A. Camb. Prof.
Fyvie, W. W., D.Sc. Lectr.
Geddes, A. E. M., O.B.E., M.A., D.Sc. Lectr.
Fraser, R. G. J., B.Sc. Asst.
Griffith, H. D., B.A. Camb. Asst.

Physiology [Reg. Prof.
MacWilliam, J. A., M.D., F.R.S.
Reid, C., M.A., B.Sc., M.B., Ch.B., D.P.H. Camb. (Expl. P.) Lectr.
Fiddes, J., M.B. Asst.
Orr, J. B., D.S.O., M.A., D.Sc., M.D. Glas. Research Lectr. (P. of Nutrition).

Political Economy
Gray, A., M.A. Edin. Jaffrey Prof.
Macdonald, Annie, M.A. (Lectr. in Pub. Finance) Asst.
Birnie, A., M.A. Edin. (Econ. Hist.) Lectr.

Psychology, Comparative
McIntyre, J. L., M.A. Edin. and Ox., D.Sc. Edin. Anderson Lectr.

Public Speaking [Lectr.
Mursell, W. A. (Asst. in English)

Spanish
Davidson, C., M.A. Lectr.

Statistical Methods
Tocher, J. F., D.Sc. Croll Lectr.

Theology
Baird, A. C., M.A., B.D., B.Sc. Glas. (Bibl. Crit.) Reg. Prof.
Henderson, G D., M.A., B.D. Glas. (Church Hist.) Reg. Prof.
Fulton, W., M.A., D.D., B.Sc. Glas. (Systematic T.) Prof.
Mitchell, Prof. W., M.A., D.Sc. (of Adelaide) Gifford Lectr.

Veterinary Hygiene and Agr. Bacteriology
Brown, Wm., B.Sc. (Agr.), M.R.C.V.S. Lectr.
Ironside, W. J., M.R.C.V.S. Asst.

Zoology, v. For., Nat. Hist.

Law

Scots L., Roman L., Jurispr.
Stuart, A. M., K.C., LL.B. Edin., M.A. Prof.

Constit. L. and Hist.
Williamson, R. M., LL.B. Edin., M.A. Lectr.

Conveyancing
Morrison, A. C., O.B.E., M.A. St. And., LL.B. Glas. Lectr.
Masson, R. P., M.A., LL.B. Asst.

Internat. L., Public and Private
Duncan, G., M.A. Lectr.

Procedure and Evidence & Merc. Law for Comml. Students
Blacklaw, A., M.A. Clark Lectr.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Forensic Med.
Hay, M., M.D., LL.D. Edin. Prof.
Richards, R., M.A., M.D., F.R.C.S.E. Asst.
Williamson, G., M.A., M.B. (Med. Ethics) Lectr.

Materia Medica
Marshall, C. R., M.A. Camb., M.D. Manc., LL.D. Reg. Prof.
Hendry, A. W., M.D. Asst.
Davidson, Bessie M., M.D. St. And. Asst.

Medicine [Reg. Prof.
Mackintosh, A. W., M.A., M.D.
Anderson, A. G., M.A., M.D., M.R.C.P. Lond. Asst.

Midwifery [Reg. Prof.
McKerron, R. G., M.A., M.D.
Semple, R., O.B.E., M.D. Asst.

Pathology [Wilson Prof.
Shennan, T., M.D. Edin.
Duguid, J. B., M.B. Asst.
Cruickshank, J., M.D., D.Sc. Glas. Research Lectr. in P. (Cancer) and Reader in Bacteriology.
Kerrin, J. C., M.B. Asst. (Cancer Research)
Downie, A. W., M.B. Asst. ,, ,,

Public Health [Lectr.
Kinloch, J. P., M.D. Glas., D.P.H.
Berry, D. W., M.D. Lectr.
Middleton, E. L., M.D., D.P.H. Edin. Lectr. (*Factory Hygiene*).

Surgery
Marnoch, J., C.V.O., M.A., M.B., C.M. Reg. Prof.
Anderson, Wm., M.B., F.R.C.S. Asst.

Tropical Medicine
Williamson, G. A., D.T.M. Liv., M.A., M.D. Lectr.

Tuberculosis, Sanatorium Treatment of
Stewart, I. S., M.D. Edin. Lectr.

ASSOCIATED COLLEGES

North of Scotland College of Agriculture.

Robert Gordon Technical Colleges. Agricultural Engineering classes for candidates for the B.Sc. degree in Agr. are at present held here.

GENERAL INFORMATION (v. also p. 255)

The " University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the " Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as " The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The Library, founded in 1500, has 250,000 vols. and 200 Incunabula, some unique. It is especially rich in Celtic literature, and books bearing on

the history, topography, and antiquities of the Scottish Highlands, and Classical Archæology. Annual budget about £3500. MUSEUMS: Anthropological (illust. cat. 1s.), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with departments of Physiology, Bio-Chemistry, Bacteriology and Pathology, and attached Animal Husbandry section for practical experiments in feeding, etc. It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 230 beds; Children's, 85; Fever, 100; Lunatic Asylum, 700.

FACULTIES. Arts, Science, Divinity, Law, Medicine. Deans: Profs. Macdonald (Maths.), Findlay (Chemistry), Fultor, Stuart, Marshall.
Departments: Commerce, Education.

DEGREES, ETC. (v. p. 257). For Diploma courses in Agric. (3 yrs.) and Forestry (2 yrs.) there is a preliminary examn. in English and Maths. The papers in the Final examn. in Agric. are the same as those set for the B.Sc. Agr. Diplomas are also conferred in Public Health (D.P.H.) and in Fine Art (History and Theory). A Certificate in Fine Art is also given.
The following Univs. have been recognized by the Univ. Court *pro tanto* as institutions in which 3 of the requisite 5 yrs. of medical study may be taken, provided that the prescribed conditions with reference to such study are fulfilled: Bom, Calc., Mad., Adel., Melb., Syd., N.Z., S. Africa, Dal., Queen's (Kingston), Tor., McGill, Chic., Corn., J.H.U., Harv., Stanf., Mich., Penn., Yale. Individual teachers in other Univs. may be recognized upon satisfying the Univ. Court with respect to their courses. The following have been recognized in respect of courses and examns. in Bot., Zool., Biol., Physics, and Chem. qualifying for a degree in Science or in Arts or in Med.: Bom., Calc., Mad., All., Panj., Rangoon, Melb., Syd., Adel., Queen's (Kingston), McGill, Tor., Manit., S. Africa. The courses and examn. in Anat. and Physiol. for the Science degree of the Univ. of Cape Town have been recognized.

FEES (v. also p. 259). Inclusive fees for tuition: B.D., 40 gs.; LL.B., 40 gs. (28 gs. for a M.A. of the Univ.); B.L., 30 gs.; M.A. and B.Sc. taken together, 112½ gs.; M.A. and B.Com., 75 gs.; B.Sc. and B.Com., 112½ gs.; M.B., Ch.B., 126 gs.; M.A., M.B., Ch.B., 156 gs.; B.Sc., M.B., and Ch.B., 168 gs.; M.A., B.Sc., M.B., and Ch.B., 202 gs; M.A. (Hons.), 60 gs.; B.Com., 45 gs.; B.Sc. (Ord.), 90 gs.; B.Sc. (Hons.), 100 gs.; M.A. (Hons.) and B.Sc., 127½ gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn., and degree fees, is usually about £236. The degree fees for the Doctorates are from 10 to 20 gs. The class and examn. fees for the D.P.H. amount to 36 gs.; for the Diploma in History and Theory of Fine Art, and for the Certificate in Fine Art to 8 gs. and 15 gs. respectively.

SCHOLARSHIPS, ETC., for graduates (v. also p. 259) about 25; aggregate annual value about £1600. *Travelling Scholarships*: Anderson, for medical graduates, about £200 p a.; Kilgour, £250 for graduates in Natural Science or Natural History; Robbie, £100 p.a. in Maths., Nat. Philos., and Chem.

RESIDENCE. No Univ. Hostel. List of lodgings kept by Students' Repve. Council.

PUBLICATIONS. *Calendar* (Sept.), 4s. 6d.; *Univ. Review*, 7s. 6d. p.a. (3 issues); *Students' Handbook* (Nov.), 1s.; *Alma Mater* (organ of S.R.C.); *Univ. Libr. Bulletin*, 2s. 6d. p.a. (2 issues).

THE YEAR 1923–24

BENEFACTIONS. Bequests: Wm. Macdonald, for bursaries, £1000; Dr. Alexr. Kilgour, for chair in Geol. and scholarships in Nat. Sc. and Nat. Hist., £4573; Wm. Martin, for prize in Christian Evidences, £586; T. W. Thursfield, for prize for Thesis for M.D., £450; Wm. Jackson, for chair in Engineering, £20,450; D. Sivewright, £700.

NEW POSTS. First appointments were made to new chair of Engineering and lecturership in Astronomy and Meteorology.

HONORARY DEGREES. *D.D.*—W. Milne Grant, R. S. Kemp, Donald Munro, T. H. Weir. *LL.D.*—Lord Anderson, Principal E. B. Paul, Ch. T. R. Wilson, Sir H. M. W. Gray, M. C. Grabham, Wm. B. Yeats.

OTHER DEGREES. M.A., 167 (including women—94; Honours, 52, including women—20); D.Litt., 3 (w.—1); B.Sc., 43 (w.—19); B.Sc. (Agr.), 19; B.Sc. (For.), 3; B.Com., 14; D.Sc., 1; B.D., 2; Ph.D., 1; LL.B., 3; M.B., Ch.B., 157 (w.—21); Ch.M., 2; M.D., 10. Diplomas in Agr., 6 (w.—1); D.P.H., 11 (w.—10).

STUDENTS. Matriculated, 1478 (including women—582); in Arts, 742 (w.—432); Sc., 232 (w.—72); Div., 14; Law, 33 (w.—3); Med., 416 (w.—74); Commerce, 41 (w.—1). Non-matric., 152. Research, 20. Special classes for advanced students and others: Fisheries, 33; Parasitology, 42; Medical Ethics, 82. Post-graduate school of Theology, 6.

UNIVERSITY EXTENSION WORK. Lectures on Art, 106; Tutorial classes in Economics, 47; Engl. Lit., 48; Music appreciation, 116; Railway Geog., 100.

UNIVERSITY OF EDINBURGH

CHANCELLOR—Rt. Hon. THE EARL OF BALFOUR, K.G., O.M., D.C.L.

VICE-CHANCELLOR AND PRINCIPAL—Sir J. ALFRED EWING, K.C.B., M.A., D.Sc., LL.D., F.R.S.

RECTOR—Rt. Hon. STANLEY BALDWIN, M.P. (elected 1923).

SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B., Advocate.

UNIVERSITY COURT

PRESIDENT—THE RECTOR, *ex officio*.

THE PRINCIPAL, *ex officio*.

The Rt. Hon. THE LORD PROVOST OF EDINBURGH, *ex officio*.

The Hon. LORD BLACKBURN.

The Hon. LORD CONSTABLE.

Judge F. J. ROBERTSON.

R. M'KENZIE JOHNSTON, M.D.

J. ROBERTON CHRISTIE, O.B.E., K.C.

Sir NORMAN WALKER, M.D., LL.D.,

J. B. CLARK, M.A.

Prof. T. P. LAIRD, M.A., C.A.

Prof. T. HUDSON BEARE, B.A., B.Sc., M.I.C.E.

Prof. NORMAN KEMP SMITH, M.A., LL.D., F.B.A.

Prof. Sir HAROLD J. STILES, K.B.E., M.B., C.M., LL.D.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Accounting and Business Method
Laird, T. P., M.A., C.A. Prof.
Johnston, C. M'K., C.A. Asst.

Actuarial Science [Lectr.
Hutton, G. C., M.A., F.I.A.
Gunn, G. O., F.F.A. Lectr.

Agriculture and Rural Economy, v. also Bot. and Forestry
Watson, J. A. S., B.Sc. Prof.
More, J. A., B.Sc. Lectr.

Agric. and Forest Entomol.
MacDougall, R. S., M.A., D.Sc. Reader.

Anatomy
Robinson, A., M.D. Prof.
Jamieson, E. B., M.D. Lectr.
Jardine, F. E., M.B. (A. and Applied A.) Lectr.

Anatomy, Comparative
Bradley, O. C., M.D., D.Sc. Lectr.
Grahame, Tom, M.R.C.V.S. Asst.

Anatomy, Morbid
Alexander, W. A., M.B. Lectr.

Anthropology and Prehistoric Archæol. [Munro Lectr.
Keith, Sir Arthur, F.R.S.

Arabic
Bell, Richard, M.A., B.D. Lectr.

Art (Fine Art)
Brown, G. Baldwin, M.A. Ox., LL.D. Prof.

Astronomy
Sampson, R. A., M.A.Camb., D.Sc., F.R.S. Reg. Prof.

Banking
M'Neil, A., S.S.C. Bruce Lectr.

Biology, v. Nat. Hist.

Botany, v. also Forestry
Smith, Wm. Wright, M.A., F.R.S. Reg. Prof.
Smith, J. L. S., M.A., B.Sc. (Forest B.) Lectr.
Matthews, J. R., M.A., B.Sc. Lectr.
Wilson, M., D.Sc. (Mycol. and Bacteriol.) Reader.
Graham, R. J. D., D.Sc. (Plant Physiol.) Lectr.
..... Asst.

Celtic Languages, etc. [Prof.
Watson, W. J., M.A. Ox., LL.D.

Chemistry
Walker, Sir J., D.Sc., F.R.S. Prof.
Kay, S. A., D.Sc. Lectr.
Rule, H. G., Ph.D., D.Sc. Lectr.
Shoesmith, John B., M.Sc. Lectr.
Ross, J. D. M., M.A., B.Sc. Lectr.
Bolam, T., M.Sc. Lectr.
Ludlam, E. B., B.A., D.Sc. Lectr.
Mackenzie, J. E., D.Sc., Ph.D. Reader.
Mitchell, R. K. S., B.Sc. Asst.
Mackenzie, Mary R., B.Sc. Asst.
Numbers, Annie H., M.A., B.Sc. Asst.
Smith, A. M., B.Sc. Asst.
Smith, John, B.Sc. Asst.
Fairweather, D. A., M.A., B.Sc. Asst.
Hoskings, A. A., B.Sc. Asst.
Coutie, A., B.Sc. Asst.

Chemistry in relation to Medicine
Barger, G., M.A. Camb., D.Sc., F.R.S. Prof.
Stewart, C. P., M.Sc. Durh. Asst.
Stedman, E., B.Sc., Ph.D. Lectr.
Stedman, Ellen, M.Sc. Asst.

Chemistry, Technical
Cottrell, Allin, M.Sc. Lectr.

Classics
Mair, A. W., M.A. Camb., Litt.D. Aberd. (Greek) Prof.
Fitzherbert, J. A., M.A. Camb. (Greek) Lectr.
Forbes, P. B. R., B.A. Camb. (Greek) Asst.
Richmond, O. L., M.A. Camb. (Humanity) Prof.
Mill, J., M.A. (Latin) Lectr.
Nicolson, Catherine A., M.A. (Latin) Lectr.
Steuart, E. M., D.Litt. (Latin) Lectr.

Commerce, and Organization of Industry [Lectr.
Oliver, W., B.Sc., A.M.I.C.E. (v. also Acc., Banking)

Commercial and Polit. Econ. and Merc. Law, v. also Law
Nicholson, J. S., M.A. Lond., Sc.D. Camb. Prof.
Rees, J. F., M.A. Ox. (Econ. Hist.) Lectr.
Rankin, Mary T., M.A., D.Phil. Lectr.
Joynt, Thomas A., M.A. Lectr.
Fenelon, K. G., M.A. Lectr.
Carse, G. A., M.A., D.Sc. (Statistics and Math. Econ.) Lectr.

Divinity
Paterson, W. P., LL.D. Penn., M.A., B.D., D.D. Prof.
Bell, Richard, B.D. Gunning Lectr. 1924–25.
Curtis, W. A., M.A., B.D., D.Litt., D.D. Reg. Prof. of Biblical Criticism & Bib. Antiq.
Mackinnon, J., M.A., Ph.D., D.D. Reg. Prof. of Eccl. Hist.
Frazer, Sir James G., O.M., LL.D., F.R.S. Gifford Lectr. on Natural Theol.
Martin, P'pal Alex., D.D. Lectr.
Kennedy, Prof. H. A. A., D.Sc., D.D. Lectr.
Simpson, Prof. J. Y., D.Sc. Lectr.

Mackintosh, Prof. H. R., D.Phil., D.D. Lectr.
Watt, Prof. H., B.D. Lectr.
Welch, Prof. A. C., D.D., Th.D. Lectr.
Perry, P'pal. W., D.D. Lectr.
Hughes, P'pal. G. H., B.D., D.Litt. Lectr.
Nicol, D. Bruce, B.D. Lectr.
Morrison, J., D.D. Asst.

Economics, v. Comm.

Education
..... Prof.
M'Clelland, W. W., M.A., B.Sc., B.Ed. Lectr.
Bickersteth, Marguerite E., Ph.D. Asst.
Young, Margaret, M.A., B.Ed. Asst.

Engineering
Beare, T. Hudson, B.A., B.Sc. Adel., M.I.C.E. Reg. Prof.
Kerr, W. Hume, M.A., B.Sc. (Drawing, etc.) Lectr.
Todd, J. B., B.Sc., A.M.I.Mech.E. (Surv. & Hydraulics) Lectr.
Gordon, W., B.Sc., A.M.I.Mech.E. (Strength of Mats.) Lectr.
..... (Forest Engin.) Lectr.
Stewart, David S., B Sc., A.M.I.C.E. Lectr.
Patterson, C., A.M.I.Mar.E. Lectr.
Wilson, N. G., B.Sc. Asst.

English Lit. and Rhetoric
Grierson, H. J. C., M.A. Aberd., B.A. Ox., LL.D. St. And. Reg. Prof.
Kitchin, G., M.A., D.Litt. Lectr.
Dickins, Bruce, M.A. Lectr.
Hislop, Gordon, M.A. Lectr.

Entomology, v. Agric.

Forestry, v. also Agric., Bot., Engin.
Stebbing, E. P., M.A. Prof.
Pike, J. L., M.A., B.Sc. Lectr.
Fergusson, D. C., B.Sc. Lectr.

French and Rom. Philol.
Sarolea, C., K.O.L., Ph.D., D.Litt. Liége, D.Jur. Cleve. Prof.
Moore, J. M., M.A. Lectr.
Burns, Mary, M.A., D. de l'U. Paris Lectr.

Genetics, v. Nat. Hist.

Geography
Ogilvie, Alan G., M.A., B.Sc. Ox. Reader.
Lennie, Alice B., M.A., B.Sc. Lectr.

Geology
Jehu, T. J., M.A., M.D. Reg. Prof.
Campbell, R., M.A., D.Sc. (Petrology) Reader.
Finlay, T. M., M.A., B.Sc. (Palæont.) Lectr.
Craig. Robert, M.A., B.Sc. (Econ. Geol.)
Allan, Douglas A., B.Sc. Asst.

German and Teutonic Philol.
..... Prof.
Schlapp, O., Ph.D. Reader.
Eggeling, H. F., M.A. Lectr.
Barker, Marie L., M.A. Asst.

Hebrew and Semitic Langs.
Kennedy, A. R. S., M.A., D.D. Glas. and St. And. Prof.
Cameron, D., B.D. Asst.

Histology, v. Physiol.

History, v. also Comm., Div., Mil.
Lodge, Sir Richard, M.A. Ox., LL.D. Glas. Prof.
Heatley, D. P., M.A. (Political Science) Reader.
Balfour-Melville, E. W. M., M.A. Lectr.
Horn, D. B., M.A. Asst.

History, Ancient (Gk. & Roman)
Giles, A. F., M.A. Edin. and Ox. Lectr.

History, Ancient, and Palæog.
Hannay, R. K., M.A. Glas., LL.D. St. And. and Ox. Prof.
Lemon, Miss E., M.A. Asst.

History, Colonial and Indian
Ewing, J., M.A. Lectr.

History, Const. Law and Const.
Millar, J. H., M.A. Ox., LL.B. Prof.

Italian
Purves, J., M.A. Lectr.

Law, v. *infra*

Mathematics
Whittaker, E. T., M.A. Camb., Sc.D., F.R.S. Prof.
Horsburgh, E. M., M.A., D.Sc., A.M.I.C.E. Reader.
Gibb, D., M.A., B.Sc. Lectr.
Ferrar, W. L., M.A. Ox. Lectr.
Robinson, G., M.A., B.Sc. Lectr.
Copson, E. T., B.A. Asst.

Medicine and Surgery, v. *infra*

Military History, Strategy, etc.
Taylor, Major J. O., LL.B. Lectr.

Mining [Hood Prof.
Briggs, H., Ph.D., D.Sc.

Music
Tovey, D. F., B.A., D.Mus. Ox., Mus.M. Reid Prof.
Shirlaw, M., Mus.D. Lectr.
Dunn, J. P., Mus.B. Lectr.

Natural History
Ewart, J. C., M.D., F.R.S. Prof.
Ashworth, J. H., D.Sc., F.R.S. Prof. (Zool.).
Patton, Major W. S., I.M.S. Lectr.
Stephenson, J., C.I.E., M.B., D.Sc. Lectr.
Purser, G. L., M.A. Lectr.
Crew, F. A. E., M.D., Ph.D., D.Sc. (Genetics) Lectr.
Lamont, Augusta, B.Sc. Asst. (Zool.).
McGill, Elsie, B.Sc. Asst. (Zool.).

Philology, v. French, Ger., Sansk.

Philosophy
Smith, N. Kemp, M.A., D.Phil. St. And., LL.D. Prof
Hardie, R. P., M.A. (Ancient P.) Reader.
Anderson, J., M.A. Lectr.
Porteous, A. J. D., M.A. Asst.
Gray, Marion I., M.A. Asst.

Philosophy, Moral, v. also Psych.
Taylor, A. E., M.A., D.Litt. Prof.
Barker, H., M.A. Lectr.
Maclennan, R. D., M.A. Asst.
Short, John, M.A. Asst.

Philosophy, Natural [Prof.
Barkla, C. G., M.A. Camb., D.Sc. Liv., F.R.S., Nobel Laureate.
Darwin, C. G., M.A. Camb., F.R.S. Tait Prof.
Carse, G. A., M.A., D.Sc. Reader.
Robinson, H., D.Sc. Manc. Reader.
Milne, J. R., D.Sc. Lectr.
Childs, B., D.Phil. Lectr.
Watson, W. H., M.A. Lectr.
Mackenzie, Gladys I., M.A. Asst.
Lawson, A. A., M.A. Asst.
Cranfield, R. V. Asst. (Mechanics).

Physiology
Schafer, Sir E. A. Sharpey, LL.D., F.R.S. Prof.
Taylor, W. W., M.A., D.Sc. (Chem. P.) Lectr.
Hogben, L., D.Sc. (Expl. P.) Lectr.
Walker, May L., M.A., B.Sc., M.B. (Histol.) Lectr.
Bruce, A. N., M.D., D.Sc. (P. of Nervous System) Lectr.
Ponder, E., M.B. Lectr.
Dryerre, H., M.R.C.S. Lectr.
Macdonald, A. D., B.Sc., M.B. Asst.
Charlton, Dorothy D. Asst.

Pol. Econ., Sc., v. Comm., Hist.

Psychology
Drever, J., M.A., B.Sc. Lond., D.Phil. Reader.
Collins, Mary, M.A., B.Ed., Ph.D. Lectr.
Slight, D., M.B. Asst.

Public Health
..... Prof.

Young, J. B., M.B., D.Sc. Lectr.
Hood, Helen R. T., M.B., D.P.H. Lectr.

Rhetoric, v. English

Sanskrit and Comp. Philol.
Keith, A. Berriedale, M.A., D.Litt., D.C.L. Reg. Prof.

Semitic Langs., v. Hebrew

Spanish
Walton, L. B., M.A. Lond. Lectr.

Statistics, v. Comm.

Theology, v. Divinity

Zoology, v. Nat. Hist.

Law

Administrative
Wood, P. F., M.A., LL.B., M.A. Ox. Lectr.

Agricultural
Cowan, John, LL.B., K.C. Lectr.

Civil
Mackintosh, J., K.C., M.A. St. And., B.A. Ox., LL.D. Prof.
Mackintosh, C., B.A., LL.B Asst.

Constitutional, v. Hist.

Conveyancing
Wedderburn, E. M., LL.B., D.Sc., W.S. Prof.
Smith, R. Colley, B.A., LL.B. Asst.

English Law
..... Lectr.

Evidence and Procedure
Lewis, W. J., M.A. Ox., B.L., S.S.C. Reader.

Industrial and Merc., v. also Comm.
Aitken, H., K.C. Reader.
Lillie, J. A., LL.B. Asst.

International, Private
Dykes, D. O., M.A., LL.B. Lectr.

Jurisprudence
Garrett, W., LL.B. Lectr.

Public [Reg. Prof.
Wilson, Wm., M.A., LL.B.

Scots [Prof.
Henderson, R. C., K.C., LL.B.
Simpson, T. B., LL.B. Asst.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Children, Diseases of
Fowler, J. S., M.D. Senr. Lectr.
Fraser, J., M.D. Lectr.
M'Neil, C., M.D. Lectr.
Carmichael, N. S., M.B. Lectr.
Thatcher, L., M.D. Asst.
Murray, J. M'N., M.B. Asst.
Hertzfeld, Gertrude, M.B. Asst.
Finlay, T. Y., M.D. Asst.

Dermatology, Clinical
Gardiner, F., M.D. Lectr.
Low, R. C., M.D. Lectr.
Aitken, R., M.D. Asst.

Eye, Diseases of the
Paterson, J. V., M.B. Lectr.
Sinclair, A. H. H., M.D. Lectr.
Traquair, H. M., M.D. Lectr.
Cameron, E. H., M.B. Lectr.
Ligertwood, Laura M., M.B. Asst.
Graham, C. W., M.B. Asst.

Forensic Med. [Reg. Prof.
Littlejohn, H., M.A., M.B., B.Sc.
Kerr, Douglas, M.B. Asst.

Gynæcology, Syst. and Clin.
Ferguson, J. Haig, M.D. Lectr.
Fordyce, W., M.D. Lectr.
Johnstone, R. W., M.A., M.D. Lectr.
Davidson, H. S., M.B. Lectr.
Young, James, M.D. Lectr.
Miller, D. A., M.B. (also in Midw.) Asst.

History of Med. [Lectr.*
Comrie, J. D., M.A., B.Sc., M.D.

Infective Fevers
James, A., M.D. Lectr.
Ker, C. B., M.D. Lectr.

Laryng., Ot., and Rhinology
Fraser, J. S., M.B. Lectr.

* Lectr. in Clin. Med.

Lithgow, J. D., M.B. Lectr.
Gardiner, W. T., M.B. Lectr.
Martin, G. E., M.B. Lectr.
Gibson, M. J., M.B. Asst.

Materia Medica, v. also Pharm.
Cushny, A. R., M.A., M.D., LL.D., F.R.S. Prof.
..... Lectr.
Crawford, J. H., M.B. Asst.

Medicine and Clin. Med.
Gulland, G. L., C.M.G., M.A., B.Sc., M.D. Prof.
Mathewson, G. D., M.D., B.Sc. Asst. (Med.).*

Medicine, Clinical
Bramwell, E., M.D. Moncrieff-Arnott Prof.
The Prof. of Therap. Sr. Lectr.
Fleming, R. A., M.D. Sr. Lectr.
Watson, D. C. M.D. Sr. Lectr.
Matthew, E., M.D. Sr. Lectr.
Eason, J., M.D. Sr. Lectr.
Ritchie, W. T., M.D. Sr. Lectr.
Goodall, A., M.D. Lectr.
Wemyss, H. L. W., M.D. Lectr.
Comrie, J. D., M.D. Lectr.
Mathewson, G. D., M.B. Lectr.
Hewat, A. F., M.B. Lectr.
Lambie, C. G., M.B. Lectr.
Small, W., D.D., M.D. Lectr.
Smith, G. L. M., M.B. Asst.

Mental Diseases, v. Psychiat.

Midwifery, v. also Gyn.
Watson, B. P., M.D. Prof.
Haultain, W. F. T., M.B. Lectr.
Young, James, M.D. Lectr.
Browne, F. J., M.D. Lectr.
Miller, D. A., M.B. Asst.

Orthopædics
..... Lectr.

Pathology and Bacteriology, v. also Anat.—Morb.
Smith, J. Lorrain, M.A., M.D., LL.D., F.R.S. Prof.
Mackie, T. J., M.D. Irvine Prof. (Bact.).
Alexander, W. A., M.B. Lectr.
Macartney, J. E., M.B. Lectr. in B.
Rettie, T., D.Sc. Lectr.
Macgregor, Agnes R., M.B. Asst.
Davidson, Jas., M.B. Asst.
Mackenzie, R. D., M.B. Asst.
MacCallum, P., M.B. Asst. (Bact.).
Susman, W., Ph.D. Asst.
..... Asst.
Watson, W. N. Boog, M.B. Asst. (Bact.).
McLachlan, D. G. S., M.B. Asst. (Bact.).
Muir, R. Demr. of Methods.

Pharmacology, Expl., and Mat. Med.
..... Lectr.

Psychiatry
Robertson, G. M., M.D. Prof.
M'Allister, W., M.B. Asst.

Pub. Health, v. *supra*

Surgery
Wilkie, D. P. D., O.B.E., M.D., Ch.M. Prof.
..... Asst.

Surgery, Clinical
Stiles, Sir Harold J., K.B.E., M.B., C.M., LL.D. Reg. Prof.
The Prof. of Surg. Senr. Lectr.
Miles, A., M.D. Senr. Lectr.
Skirving, A. A. S., C.M.G., M.B. Senr. Lectr.
Chiene, G. L., M.B. Senr. Lectr.
Stuart, W. J., M.B. Senr. Lectr.
Struthers, J. W., M.B. Senr. Lectr.
Wade, H., M.D. Lectr.
Fraser, J., M.D., Ch.M. Lectr.
Hartley, J. N. J., M.B. Lectr.
Graham, J. M., M.B., Ch.M. Lectr.
Brown, K. P., M.B. Asst.
Shaw, J. J. M., M.B. Asst.
Jardine, F. E., M.B. Lectr.
Wood, W. Q., M.D., Ch.M. Lectr.
Cochrane, W. A., M.B. Asst.

* Lectr. in Clin. Med.

Therapeutics and Clinical Medicine

Lyon, D. Murray, M.D., D.Sc. Prof.
Davies, H. W., M.B., B.Sc. Asst.
Robson, W., B.Sc. Asst.

Tropical Climates Diseases

Greig, Lt.-Col. E. D. W., C.I.E., I.M.S. Lectr.

Tuberculosis

Philip, Sir Robert W., M.A., M.D., LL.D. Prof.

Hewat, A. F., M.B. Asst.*
Simpson, J. C., M.B. Asst.

Venereal Diseases

Lees, David, M.D. Lectr.
Batchelor, R. C. L., M.B. Asst.
Liston, Mary F., M.B. Asst.

University Extension

22 Tutors, including 5 Univ. Profs. and 11 Univ. Lectrs.

* Lectr. in Clin. Med.

ASSOCIATED COLLEGES, in which Univ. courses are provided at Edinburgh.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE. Director, Alex. Lauder, D.Sc.

HERIOT-WATT COLLEGE. Principal, A. P. Laurie, D.Sc.

NEW (UNITED FREE CHURCH) COLLEGE. Principal, Alex. Martin, D.D.

ROYAL (DICK) VETERINARY COLLEGE. Principal, O. C. Bradley, M.D., D.Sc.

GENERAL INFORMATION (v. also p. 255)

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the M'Ewan Hall (1888–97), in theatre form, which holds 2600 people and has a great electric organ; and "The King's Buildings" (1920–24) for Chemistry and other Science Departments. The Medical School of this Univ. has been famous for many generations; specially ample provision exists also for instruction and research in Theology (post-graduate school instituted 1919), Agric., Forestry, Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, 300,000 vols., 8000 MSS., includes special collections—Shakespearean, Sanskrit, Celtic, Persian, and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America. MUSEUMS: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Waterhouse collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the Royal Bot. Garden. The Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The LABORATORIES are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the new Laboratories at King's Buildings which were

completed in 1924 have accommodation for about 400 students), Engin. (notably Hydraulics, Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health (Institute built 1902, costing £21,000). The Univ. has a table at the Millport Marine Station. HOSPITALS: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., and Lunatic Asylums. Over 50 resident posts in these are given annually to Med. graduates.

FACULTIES. (1) Arts, (2) Science (including Engineering, Mining and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. E. T. Whittaker (Mathematics), (2) Prof. Hudson Beare (Engin.), (3) Prof. Paterson, (4) Prof. Mackintosh, (5) Prof. Lorrain Smith (Path.), (6) Prof. Tovey.

DEGREES AND DIPLOMAS (v. Scottish Univs.). A diploma in *Education* is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of E., and modern E. Systems and Problems. Candidates must have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and must have completed a graduation course in Arts. Diplomas are also granted in *Actuarial Mathematics* (2 yrs.), *Forestry* (2 yrs., open only to ex-service men and Indian students selected as Forest probationers who have taken an Honours degree in Science at an Indian Univ.), *Geography* (open to graduates or students about to graduate in Arts or Science), *Technical Chemistry* (open to graduates who have taken a degree in Science with Honours in Chemistry), and a Diploma and a Certif. in *Social Study*.

A candidate for the B.Sc. in *Vet. Sc.* must (i.) have passed the Prelim. examn. for degrees in Sc., (ii.) have been engaged in Vet. study for 4 yrs., (iii.) have a registrable qualification, (iv.) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

The 1st examn. for the B.Sc. in *Pub. Health* is open to graduates in Med. of Univs. of the U.K., or McG., Queen's (Ont.), Panj., Harv., Bruss., or Würz., on conditions which include study during 5 mos. in the Edin. Pub. Health Lab. The 2nd examn. may not be taken until 6 mos. after passing the 1st.

Diplomas in *Pub. Health* (1 yr. course), in *Tropical Med. and Hygiene* (16 mos.), and in *Psychiatry* (1 yr.), are open to graduates of the Univ. and registered Med. practitioners.

Candidates for the *Mus.B.* must have passed the Arts or Sc. Prelim. examn., or its equivalent, and attended a course in this Univ. during a whole winter session. A Mus.B. of 3 yrs.' standing may offer himself for the Mus.D. (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

RECOGNITION OF INSTITUTIONS AND TEACHERS outside the United Kingdom:

(*a*) For exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree: the following Univs.—Alb., Dal., McG., Manit., Queen's (Kingston), Tor., Adel., Melb., Syd., N.Z., S. Africa, All., Bom., Calc., Mad., Panj., Paris, Tokyo, Osaka, Sendai, and such other Univs. as the Univ. Court may from time to time approve; graduates of the American institutions listed in Appendix XXV.

(*b*) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(*c*) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad. V. also (*f*).

(*d*) For 2 of the 3 yrs.' study for LL.B.: McGill Univ., Madras Law Sch., Law Coll., Trevandrum, Ripon Coll., Calc.

(*e*) For 3 of the 5 yrs. of Med. study: recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(*f*) For admission of graduates from these institns. to study for the Ph.D. degree (General Recognition is also granted to them in terms of the various Graduation Ordinances): the following Univs.—Dal., King's Coll. (N.S.), Laval, McG., Manit., Queen's (Ont.), Tor., Adel., Melb., Queensland, Syd., W. Aust., N.Z., Cape Town, S. Africa; all Colleges affiliated to these Univs.; Univs. and Colls. approved by the Assocn. of American Univs. V. App. XXV.

POST-GRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.-G. Courses in Med. Univ. New Buildings, Edinburgh. The Post-graduate School of Theology has issued a detailed list of courses for 1924–25. Graduates contemplating research should apply to the Deans. V. also p. 259.

SCHOLARSHIPS. Total annual value over £22,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides over £1000 p.a. for *research*. V. also p. 259.

Travelling for study or research is encouraged by Dickson Fund (£90 p.a.), Dundas Latin Studies Fund (£45 p.a.), Drummond Mathematical Scholarship (£135 p.a. for 3 yrs.), Maclaren Mathematical Scholarship (£170 for 3 yrs.), Scott Scholarship for Graduates in Arts (£70), M'Cosh Bursaries for Graduates in Medicine (£300).

FEES. (*N.B.*—See also p. 259.) Inclusive tuition fees for LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr., Ord., 90 gs., Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 33 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sc., 130 gs.; M.A. and B.Sc. in Agr. or Engin., M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Graduation examns.: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus.B., 15 gs.; Mus.D., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

HALLS OF RESIDENCE, ETC. For men: University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street). Board and lodging about £2 : 12 : 6 a week. For women: East Suffolk Rd., Craigmillar Park (Warden), £50 for the three terms; Masson Hall, 31 and 32 George Square (Warden); and Muir Hall, 12 George Square (Warden), 33s. 6d. to 47s. 6d. Six months' notice generally necessary.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

Indian Students' Adviser: Maj. J. E. Mackenzie, D.Sc.

UNIV. EXTENSION, ETC. The Univ. is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Workers' Educnl. Assocn. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff.

OFFICIAL PUBLICATIONS. The *Calendar* (Aug.), 5s.; the *Prelim. and*

Degree Examn. Pps. (May and July), 5d. to 1s. 9d. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. Facilities for advanced Study and Research free on application.

THE YEAR 1923–24

BENEFACTIONS. Bequests: Wm. Macdonald, £1000 towards further endowment of Bursaries; Jane L. Berwick, £1000 and a house to be used as a residence for medical lecturers, and for medical and science graduates engaged in research; T. M'Kie, Advocate, £45,000, in three equal parts, to develop in the Univ. (1) scientific research, (2) teaching and study of English Language and Literature, and (3) teaching and study of Modern Languages, particularly French, German, and Italian; Miss J. L. Small, £5000 endowment for purchase of books, particularly early editions of ancient Scottish works and works relating to the ancient literature and history of Scotland, and general purposes of the Library. Grant from the Rockefeller Foundation of (1) £35,000 towards equipment of new laboratory for Clinical Medicine within grounds of Royal Infirmary and £1000 p.a. for 5 yrs. to supplement the salary of the Prof. of Clin. Med., and (2) £15,000 to complete endowment of Chair of Surgery. Gifts by Sir Norman Walker (collection of casts illustrating diseases of the skin) and others.

The University and its staff presented five cases of books to the Library of the Univ. of Tokio which was partially destroyed by earthquake.

NEW REGULATIONS for Degrees in Science in Engineering and in Forestry.

NEW POSTS. A first appointment was made to the James A. Hood Chair of Mining.

An ASSOCIATION OF ALUMNI was formed on the lines of American assocns. of this kind.

DEATHS. Dr. D. F. Lowe, for 14 years Assessor of General Council on Univ. Court (succeeded by Sir Norman Walker); Prof. Alexr. Darroch; Lt.-Col. D. G. Marshall. RESIGNATIONS: Profs. Alexis Thomson, Hunter Stewart, and James Seth, all of whom died shortly after resigning; Prof. J. C. Meakins on appointment as Prof. of Med. in McGill Univ.

HONORARY DEGREES. *D.D.*—J. Macdougall Black, Rt. Rev. A. S. Inch, R. Sandilands Kirkpatrick, Canon A. E. Laurie, A. Pollok Sym. *LL.D.*—G. G. Chisholm, Wm. Chree, Prof. S. J. Hickson (Manchester), Sir Thomas Hutchison, F. R. Jamieson, Rt. Hon. H. P. Macmillan (Lord Advocate), Prof. C. J. Martin (Lister Institute), Prof. Sir David Orme Masson (Melbourne), Sir Owen Seaman, G. Macaulay Trevelyan, Mrs. Beatrice Webb (Mrs. Sidney Webb), Hon'ble Sir Alexander F. Whyte (President of the Legislative Assembly of India).

OTHER DEGREES. M.A., 304 (including women—171); M.B., 360 (w.—64); M.D., 39 (w.—2); B.Sc. in Pure Sc., 63 (w.—28); Eng., 49; Mining and Met., 4; Agr., 36; For., 11; Vet. Sc., 4; D.Sc., 8; LL.B. or B.L., 25 (w.—2); B.D., 5; Mus.B., 2 (w.—1); B.Ed., 2 (w.—1); B.Com., 34 (w.—3); D.Litt., 3; Ph.D.: in Div., 9; Arts, 8 (w.—3); Sc., 17 (w.—2); in Med., 1.

STUDENTS. Total, full-time, 3569; part-time, 443. Matriculated: Arts, 1645; Sc., 726; Div., 85; Law, 160; Med., 1468; Music, 17.

UNIVERSITY EXTENSION WORK. In addition to providing accommodation for courses of lectures delivered under the auspices of the W.E.A., the Univ.

Court voted a grant-in-aid. Students enrolled in connexion with these classes numbered nearly 1700. Summer Vacation Classes for Teachers, 4 weeks. By arrangement with the L.N.E. Railway Company the Univ. conducted a course of Lectures on " Railway Law " (see p. 9) : attendance over 200. The use of certain class-rooms was granted to the Insurance Society of Edinburgh for evening classes in the winter.

UNIVERSITY OF GLASGOW

CHANCELLOR—THE EARL OF ROSEBERY AND MIDLOTHIAN, K.G., K.T.

VICE-CHANCELLOR AND PRINCIPAL—Sir DONALD MACALISTER, Bt., K.C.B., M.A., M.D., D.C.L., D.Sc.

RECTOR—The Right Hon. EARL OF BIRKENHEAD, M.A., D.C.L.

DEAN OF FACULTIES—Emeritus Prof. Sir H. C. CAMERON, C.B.E., M.D., LL.D.

SECRETARY TO THE UNIV. COURT—A. E. CLAPPERTON, B.L., LL.D.

CLERK OF SENATE—The Very Rev. Prof. G. MILLIGAN, D.D., D.C.L.

REGISTRAR—ROBT. BROUGH.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—W. R. CUNNINGHAM, M.A.

CLERK OF THE GENERAL COUNCIL—Sir A. CRAIG, LL.D., O.I.P.

QUEEN MARGARET COLLEGE

Mistress—Miss F. H. MELVILLE, M.A., B.D.

UNIVERSITY COURT

THE RECTOR, *ex officio.*

THE PRINCIPAL, *ex officio.*

THE LORD PROVOST OF GLASGOW, *ex officio.*

The Right Hon. LORD MACLAY, LL.D.

Sir THOS. DUNLOP, Bt., G.B.E., LL.D.

J. BRUCE MURRAY, LL.D.

DAVID MURRAY, LL.D.

G. S. MIDDLETON, M.D., LL.D.

R. A. DUFF, M.A., D.Phil.

D. MACGILLIVRAY, M.A.

Prof. G. A. GIBSON, M.A., LL.D.

Prof. T. H. BRYCE, M.D., F.R.S.

Prof. GLOAG, K.C., LL.D.

Prof. W. MACNEILE DIXON, Litt.D., LL.D.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Anatomy

Bryce, T. H., M.A., M.D. Edin., F.R.S. Reg. Prof.

Hutton, W. K., M.A., M.B., C.M. Lectr.*

Maclaren, Norman, Ph.D. (Embryology) Lectr.

Blair, D. M., M.B. (Regional A.) Lectr.

Anderson, Andrew, M.B. Demr.

Bingham, J. A., M.B. Demr.

Miller, W. B. D., M.B. Demr.

Dickson, Lilian, M.B. Demr.*

Davidson, A.M., M.B. Demr.*

* At Queen Margaret Coll.

Nicol, T., M.B. Demr.
2 part-time Demrs.

Arabic
Weir, T. H., D.D., M.R.A.S. Lectr.

Astronomy
Becker, L., Ph.D. Bonn. Reg. Prof.
Connell, J., M A. Lectr.
Ross, John J., M.A. Demr.

Botany
Drummond, J. Montagu F., M.A., F.L.S. Reg. Prof.
Williams, Samuel, M.Sc. Lectr.
Thomson, J., M.A., B.Sc. Lectr.
Wardlaw, C. W., B.Sc. Asst.
Thomson, Jane N., B.Sc. Asst.

Celtic
Calder, G., B.D., D.Litt. Edin. Lectr.

Chem., v. also Physiol.
Henderson, G. G., D.Sc., F.R.S., LL.D. St. And. Reg. Prof
Bolam, H. W., B.Sc. Edin., Ph.D. Lectr.*
Knox, J., D.Sc. Aberd. Lectr. for Med. Students.
Roberts, J., M.A., F.C.S. Lectr.
Henderson, A., M.A., B.Sc. Lectr.
M'Millan, A., M.A., D.Sc. Lectr. (Analytical Chem.)
Morrison, Jane, M.A. Asst.*
M'Culloch, W. P., B.Sc. Asst.
Sword, J., M.A., B.Sc. Asst.
Lewin, Christina T., B.Sc. Asst.
M'Laren, Isabella, B.Sc. Asst.
Robertson, J. M., B.Sc. Asst.
Chisholm, D., B.Sc. Asst.
Stewart, Eliz. C., M.A., B.Sc. Asst.*
Gibson, D. T., M.Sc., Ph.D. Asst.
4 Research Assts.

Chem., Organic
Patterson, T. S., D.Sc. Lond. & Glas., Ph.D. Heid. Gardiner Prof.
Tucker, S. H., M.A. Ox., Ph.D. Lond. Lectr.
Fulton, J. D., M.A., B.Sc. Asst.
Semple, Jean M., B.Sc. Asst.
Dunn, Edith F. M., B.Sc. Asst.
Buchanan, C., B.Sc. Asst.
Kent, Andrew, M.A., B.Sc. Asst.
2 tempy. Assts.

Chem., Physical
Wright, Robert, D.Sc. Belf. Lectr.
Smith, R. Christie, M.A., B.Sc., Ph.D. Carnegie Teaching Fellow.
Mitchell, Stotherd T. R. S., B.Sc. Asst.

Classics, v. also Philol. [Prof.
Davies, G. A., M.A. Camb. (Greek)
Rennie, W., M.A. (Greek and Hellenistic G.) Lectr.
Gomme, A. W., B.A. (Greek History) Lectr.
Kitto, H. D. F., B.A. (Greek) Asst.
Phillimore, J. S., M.A. Ox., LL.D. St. And., D. Litt. (Humanity) Prof.
Austin, R. G., B.A. (Humanity) Asst.
Nisbet, R. G., M.A. (Latin) Lectr.
M'Glynn, P., M.A. (Latin) Lectr.
Burn, R., B.A. (Latin) Lectr.

Divinity, v. also Hebrew
Reid, H. M. B., D.D. St. And. Primar. Prof.
Milligan, Very Rev. G., D.D. Aberd., D.C.L. Durh. (Bibl. Crit.) Reg. Prof.
Main, A., M.A. Glas., B.A. Ox., D.Litt., D.D. (Church Hist.) Reg. Prof.

Economics, v. Pol. & Social Econ.

Education [Lectr.
Boyd, W., M.A., B.Sc., D.Phil.

Embryology, v. Anat.

Engineering, v. also Naval
Goudie, W. J., D.Sc.
J. Watt Prof. of Theory and Practice of Heat Engines.

* At Queen Margaret Coll.

Brown, R. M., B.Sc., Ph.D. Lectr.
Scobie, J., B.Sc. Lectr.
Vost, J., B.Sc. Lectr.
Morrison, J. C., B.Sc. Lectr.
Small, J., B.Sc. Lectr.
Thom, A., B.Sc. Lectr.
Geyer, E. W., B.Sc. Lectr.
2 Assts.

Engin., Civil and Mech.
Cormack, J. D., C.M.G., C.B.E., D.Sc. Reg. Prof.
Keown, J. E., B.Sc. (Drawing and Design) Lectr.
Hewett, A. F., B.Sc. Lectr.

Engineering, Electrica
Howe, G. W. O., D.Sc. Durh. and Adel. J. Watt Prof.
Hague, B., M.Sc. Lectr.
Small, A. J., B.Sc. Asst.

English Language and Literature
Dixon, W. M., Litt.D. Dub., LL.D. Aber. Reg. Prof.
Bickersteth, G. L., M.A. Lectr.
Alexander, P., M.A. Lectr.
Girvan, R., M.A. (Eng. Lang.) Lectr.
Smart, J. S., M.A., D.Litt. Lectr.
Gray, Margaret M., M.A. Lectr.
Wright, Bernard A., B.A. Lectr.
Peddie, J. R., M.A. Lectr.
2 Assts.

French
Martin, C. A., M.A. Paris, O.I.P., Ch. L.H., C.G. Prof.
Pitoy, L. M., B.Sc., L. ès L. Phil. Lectr.
Pitoy, Mary C., M.A. Lectr.
Francillon, R. Lectr.
4 Assts.

Geography
Stevens, A., M.A., B.Sc. Lectr.
Holmes, J. Asst.

Geology [Prof.
Gregory, J. W., D.Sc. Lond., F.R.S.
Tyrrell, G. W., Ph.D., A.R.C.Sc Lectr.
Neilson, Agnes T., M.A. Lectr.
Weir, J., M.A. Lectr.
Barrett, B. H., M.A., B.Sc. Carnegie Teaching Fellow.
M'Callien, Wm. J., B.Sc. Baxter Demr.
3 other Demrs.

German
Smith, H., M.A. St. And., Ph.D. Marburg William Jacks Prof.
Clark, James M., M.A., Ph.D. Lectr.
Brown, James, M.A. Asst.

Hebrew and Semitic Langs.
Stevenson, W. B., D.D., D.Litt. Edin. Prof.
Harris, E. J., B.D. Asst.

History, v. also Div., Law, Pol. Econ.
Medley, D. J., M.A. Ox. Prof.
Browning, A., M.A. Lectr.
McCallum, R. B., B.A. Lectr.
Miller, S. N., M.A. (H. and Antiq., Roman) Lectr.
Rait, R. S., C.B.E., M.A. Ox., LL.D. (H. and Lit., Scot.) Prof.
Douglas, D. C., M.A. (Mediaeval H.) Lectr.
Lees, R. M., M.A. Asst.
Sayles, G. O., M.A. Asst.

Humanity, v. Classics

Italian
..... Stevenson Prof.
Grillo, Cav. E., K.C.O.I., M.A., Litt.D. Flor., LL.D. Perugia Lectr.
MacKinven, A. D., M.A. Asst.

Law, v. *infra*

Logic and Rhetoric
Latta, R., M.A., D.Phil. Edin. Prof.
Levett, Margaret J., M.A. Lectr.
Macbeath, A., M.A. Lectr.
Haydock, G. H., M.A., B.Litt. ,,
Gibson, A. B., B.A. Asst.

Mathematics
Gibson, G. A., LL.D. Edin., M.A. Prof.
M'Arthur, N., M.A., B.Sc. Lectr.

MacRobert, T. M., M.A., D.Sc. Lectr.
M'Whan, J., M.A., Ph.D. Lectr.
Arthur, W., M.A. Lectr.
Rodger, Janet F., M.A. Lectr.
Robb, R. A., M.A., B.Sc. Asst.
Hyslop, J., M.A. Asst.

Medicine and Surgery, v. *infra*

Metallurgy, etc., v. p. 288.

Mining

Dron, R. W., A.M.I.C.E. Dixon Prof.
Adam, D., B.Sc. Lectr.
Baird, J. Demr.

Naval Archit., including Marine Engin.

Hillhouse, P. A., D.Sc. Harv. John Elder Prof.
Evans, D. L., B.Sc. Lectr.
..... Asst.

Philology, Comparative (Classical)

Pirie, J. W., M.A. Aberd. Lectr.

Philosophy, Moral, v. also Logic and Psychol.

Hetherington, H. J. W., M.A. Prof.
White, Alex. K., M.A. Lectr.
Phillips, I. W., M.A. Lectr.
Campbell, C. A., M.A. Asst.

Philosophy, Natural

Wilson, Harold A., M.A. Camb., D.Sc. Lond., F.R.S. Prof.
Green, G., M.A., D.Sc. Lectr.
Cochrane, Charles, M.A., B.Sc. Lectr.
Allan, G. E., D.Sc. Birm. Arnott and Thomson Demr. in Expl. Physics and Lectr. in Electricity.
Houstoun, R. A., D.Sc., Ph.D. (Physical Optics) Lectr.
Gray, R. C., M.A., D.Sc. Carnegie Teaching Fellow.
Robertson, J., M.A., B.Sc. Asst.
Shearer, J. F., M.A., B.Sc. Asst.
Younger, A. J., M.A., B.Sc. Asst.

Physics, Applied

Gray, J. G., D.Sc. Cargill Prof.

Physiology

Paton, D. Noël, M.D., B.Sc., LL.D. Edin., F.R.S. Reg. Prof.
Watson, A. M., M.A. (Histology) Lectr.
Wishart, G. M., B.Sc., M.B. Grieve Lectr.
Garven, H. S. D., B.Sc., M.B. Lectr.
Garry, R. C., M.B. Asst.

Physiolog. Chem.

Cathcart, E. P., C.B.E., M.D., D.Sc., F.R.S. Gardiner Prof.
Wilson, H. E. C., M.B. Asst.

Polit. Econ.

Scott, W. R., Litt.D. Dub., D.Phil., St. And. Prof.
Smith, C. F., B.A. (Econ. Hist.) Lectr.
Jack, D. T., M.A. Asst.

Political Philosophy

Duff, R. A., M.A., D.Phil. Lectr.

Psychology

Watt, H. J., Ph.D. Würz., D.Phil. Aberd. Lectr.

Russian [Sir William Weir Lectr.
Brennan, H. G., M.A. Lond.

Social Economics

Cunnison, James, M.A. Lectr.

Spanish

..... Stevenson Prof.

Theology, v. Divinity

Zoology

Kerr, J. Graham, M.A. Camb., F.R.S. Reg. Prof.
Dunkerly, J. S., B.Sc., Ph.D. Lond. Lectr.
Carter, G. S., B.A. Lectr.
Staig, R. A., M.A. Carnegie Teaching Fellow.
Jepps, Margaret W., M.A. Asst.
Miller, Agnes E., M.A. Asst.
Chumley, James Research Fellow

Law

Gloag, W. M., K.C., B.A. Ox., LL.D. Edin. Reg. Prof.

Civil Law
Muirhead, J. S., LL.B. Lectr.

Const. Law and Hist.
Mungo, D. B., LL.B. Lectr.

Conveyancing [Prof.
M'Kechnie, W. S., LL.B., D.Phil.

Evidence and Procedure
Lamond, R., LL.B. Lectr.

Internat. Law, Public, and Internat. Private Law
Nicol, R. M., LL.B. Lectr.

Jurisprudence, Genl.
Mitchell, A. A., LL.B. Lectr.

Mercantile Law
Wright, T. G., LL.B. Prof.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology [Gardiner Prof.
Browning, C. H., M.D., D.P.H.
Dunlop, E. M., M.B. Lectr.

Dermatology
Nicol, J. W., M.B., C.M.
M'Call Anderson Mem. Lectr
Smith, J. Ferguson, M.A., M.B. Lectr.

Ear and Throat and Nose, Diseases of, v. also Nose
Gray, A. A., M.D. (Ear) Lectr.
Harper, James, M.A., M.B. Lectr.

Electrical Diagnosis and Therapeutics [Lectr.
Riddell, J. R., F.R.F.P.S.G.
Chapman, Katharine M., L.R.C.P. Lectr.

Eye, Diseases of the
Ballantyne, A. J., M.D. Lectr.

Forensic Medicine [Reg. Prof.
Glaister, J., M.D., D.P.H.
Glaister, J., Jr., M.B. Asst.

Infancy and Childhood
Findlay, L., M.D., D.Sc.
Prof. of Med. Pediatrics.
Fleming, G. B., M.B.E., B.A., M.D. (Med. Diseases) Lectr.
Graham, Stanley, M.B. Asst.
MacLennan, A., M.B. (Surgery and Orthopædics) Lectr.
Tennent, Robert, M.B. Asst.

Insanity
Henderson, D. K., M.D. Lectr.
MacDonald, J. H., M.B., Ch.B. (Psych. Med.)
Mackintosh Lectr.

Materia Medica [Reg. Prof.
Stockman, R., M.D. Edin.
Campbell, David, M.A., B.Sc., M.B. Pollok Lectr,
Johnston, J. M., M.B. Weir Asst.
Scott, W. H., M.B. Asst.

Medicine [Muirhead Prof.
Hunter, W. K., M.D., D.Sc.
Cruickshank, J. N., M.D. Asst.
Smith, David, M.B. Asst.

Medicine, Clinical
Anderson, J. B. M., M.B. Lectr.
Jack, W. R., M.D., B.Sc. Lectr.
Henderson, J., M.D. Lectr.
Cowan, J. M., M.D., D.Sc. Lectr.

Medicine, Practice of [Reg. Prof.
Monro, T. K., M.A., M.D., C.M.
Allan, G. A., M.D. Asst.
Adams, Douglas K., M.A., B.Sc., M.D. Asst.

Midwifery
Cameron, M., M.D. Reg. Prof.
Cameron, S. J., M.B.
Lectr. & Asst.
M'Lellan, A. N., M.B., C.M. Asst.

Nose and Throat, Diseases of the, v. also Ear
Syme, W. S., M.D. Lectr.
Young, Gavin, M.B. Asst.

Obstetrics and Gynæcology
Kerr, J. M. M., M.D. Muirhead Prof.
Hendry, J., M.A., B.Sc., M.B. Asst.

Cameron, S. J., M.B. (Clin.) Lectr.
Shannon, David, M.B. (Clin.) Lectr.
M'Intyre, D., M.B. Asst.

Pathology
Muir, R., M.A., M.D. Edin., Sc.D., F.R.S. Prof.
Blacklock, J. W. S., M.B. Lectr.
Cappell, D. F., M.B. Asst.
Young, J. S., M.A., B.Sc., M.B. Asst.
Teacher, J. H., M.A., M.D. St. Mungo-Notman Prof.
..... Lectr.
Marshall, Alice J., M.B. St. Mungo-Notman Asst.

Pediatrics, v. Infancy

Pharmacy [Lectr.
Middleton, J. C., M.A., B.Sc., M.B.

Psychological M., v. Insanity

Public Health, v. also Forensic
Currie, J. R., M.D. Edin., D.P.H. Birm. Prof.
Wylie, J., M.A., M.B., B.Sc. (Pub. Health) Asst.

Surgery [Reg. Prof.
Young, Archibald, B.Sc., M.B.
Hutton, A. J., M.B. Asst.
Learmonth, J. R., M.B. Asst.
Robertson, J. G. M'Gregor, M.B. Asst.
Paterson, Peter, M.B. St. Mungo Prof.
Burton, J. A. G., M.B., D.P.H. St. Mungo Asst.
Stevenson, G. H., M.B. Asst.

Surgery, Clinical
M'Gregor, A. N., M.D. Lectr.
Kay, T., M.B., C.M. Lectr.
Edington, G. H., M.D., D.Sc. Lectr.
Patrick, J., M.A., M.B. Lectr.
Macrae, Farquhar, M.B. Lectr.
Macewen, J. A. C., M.B. Lectr.
Young, Roy F., M.B., Ch.B. Lectr.

Tuberculosis, Clinical
Crocket, J., M.D. Edin. Lectr.
Macgregor, A. S. M., M.D. Lectr

Venereal Diseases
Watson, D., M.B., C.M. Lectr.

University Extension

Stevenson Lectr. for 1924–25 in Citizenship: Prof. W. G. S. Adams, M.A., All Souls' College, Oxford.

Joint Secy. for the Univ. to the Glasgow Univ. Extra-mural Education Committee: Peter Alexander, M.A. (Lectr. in English).

ASSOCIATED COLLEGES, in which University courses are provided at Glasgow

ROYAL TECHNICAL COLLEGE.

WEST OF SCOTLAND AGRICULTURAL COLLEGE.

GENERAL INFORMATION (v. also p. 255)

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. In 1864–70 the old college buildings and site were sold and new buildings were erected in a more suitable position on the crest of a hill (Gilmorehill) to the west of the city. Funds for this were obtained partly from the proceeds of the sale, partly from public subscription, and partly from a Parliamentary grant of £120,000. Queen Margaret College was acquired by gift in 1893 for the use of women students. The Carnegie Trust contributed £60,000 towards

the cost of additional buildings which were completed in 1907, and a neighbouring estate was presented by the MacLellan family in 1917.

The LIBRARY, founded in the 15th century, contains 255,000 vols., including 300 books printed before A.D. 1500, and much other material for research. More than 500 current periodicals are taken in. The Hunterian MUSEUM, founded in 1783, contains important collections of MSS., coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPLS. are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech., Mining, Naval Archit.), Applied Chem., Agric., Public Health, Pharmacy. Deans: (1) Profs. Smith (German), (2) Patterson (Chem.), (3) Cathcart (Physiol. Chem.), (4) Wright, (5) Stevenson (Hebrew), (6) Cormack.

DEGREES, v. p. 257. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course); D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelim. examn.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several resident outside the United Kingdom, namely in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POST-GRADUATE study and research in any Faculty application should be made to the Dean, v. also p. 259. A Post-graduate *Medical* Assocn. organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs., programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 6 Woodside Crescent.

CLASS FEES, see p. 259. M.A. (Hons.), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc., 112½ gs.

SCHOLARSHIPS FOR GRADUATES: about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. (For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.) V. also p. 259.

Travelling for study or research is encouraged by: Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada, U.S.A.*, or *France*.

RESIDENCE. Two Hostels for men students—the Maclay Hall and the MacBrayne Hall—which are under the control of the University were opened in 1923. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the

charges are lower, are run by private committees or bodies of students and graduates.

A STUDENT WELFARE COMMITTEE has been formed for the purpose of raising funds for the provision of Hostels, increased Union accommodation, and the completion of the Athletic Ground. Grants have been received from the Univ. Grants Committee and the Carnegie Trust, and many donations have been received from private benefactors and other sources. In all the sum of about £85,000 has been raised.

UNIVERSITY EXTENSION. An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit; a compendium of classes and lectures for the session is obtainable from H. E. R. Highton, 22 Lochleven Rd., Langside, S.2. Fortnightly and occasional free public lectures by professors and others are delivered during the winter session.

PUBLICATIONS. *Calendar* (July); *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual Handbook* for matriculated students; *Handbook* for Overseas students and graduates.

THE YEAR 1923–24

BENEFACTIONS. Wm. Dawson bequest for bursary of £75 p.a. for students in Mining Engineering; Wm. Mitchell, bequest (estimated £12,000) for bursaries; A. H. and T. G. Bishop, collection of Coleoptera and Lepidoptera; J. M. Robertson, a house to be used as a hostel or otherwise; J. F. Orr, bequest of £500 to the library; T. J. Holt, bequest of £1000 for a prize in Logic; Rev. H. and Mrs. Ranken, £200 for a prize in Pathology; James H. Gray, £105 for students in Natural Philosophy; Miss J. H. Roy, bequest estimated at £5000; Carnegie Trust, £5000 for equipment of hostels for women students; British Medical Assocn. and West of Scotland Foreign Service Medical Club, £391 for prize to be awarded annually to the best final year medical student.

NEW BUILDINGS. The new Zoology building (£112,000) is now in occupation. Erection of a building (£122,000) to complete West Quadrangle of main Univ. Building for Faculty of Arts, and incorporating War Memorial Chapel, commenced.

NEW POSTS. Chair of Medical Pediatrics, Stevenson Chair of Italian (in place of lecturership), Stevenson Chair of Spanish, 3 Carnegie Teaching Fellowships.

LEGISLATION. New Regulations governing the degree of B.Sc. in Agriculture were approved. Degrees in Science in Architecture were also instituted. A Diploma in Public Health is now granted by Glasgow, in addition to the B.Sc. in Pub. Health.

HONORARY DEGREES CONFERRED. *D.D.*—S. Myers, S. M. Berry, J. M. Campbell, H. E. Fosdick, A. Macdonald, D. M. McIntyre, Prnicipal R. Bruce Taylor, Principal J. O. Thomas, J. Weatherhead. *LL.D.*—Kathleen V. Bannatyne, Sir James Bell, Bt., Sir Archd. Craig, Gen. Sir Charles Fergusson, Bt., Prof. T. Gray, Rt. Hon. J. Ramsay MacDonald, G. E. MacLean, Sir A. H. Pettigrew, Principal Alexander Russell, Rear-Admiral D. W. Taylor (U.S.A. Navy), Sir Malcolm Watson, Sir Alfred Yarrow, Bt.

OTHER DEGREES. M.A.—338; B.Sc.—273; M.B., Ch.B.—408; M.D.—15; B.L.—13; LL.B.—7; B.D.—1; Ed.B.—2; Ph.D.—8; D.Sc.—4; D.Litt.—4.

RESIGNATIONS. Prof. A. D. Lindsay (Mor. Phil.), apptd. Master of Balliol Coll.; Prof. F. O. Bower (Botany); J. Tullis (Lectr. Eng.), apptd. Sen. Prof. (Eng.), Patna; Prof. A. Gray (Nat. Philos.), succeeded by Wilson from Rice Institute, Texas (formerly at McGill). DEATHS: Prof. Sir Wm. Macewen (Surgery); Prof. R. Kennedy (Surgery, Royal Infirmary); Em. Prof. Jack (Math.); Mungo Ferguson (Sub-Librarian).

STUDENTS. Total, 4694: Arts, 1639 (including women—964); Sc., 1239 (w.—158); Theol., 54; Med., 1288 (w.—241); Law, 252 (w.—11); Arts and Sc., 127 (w.—24); Arts and Med., 7; Arts and Law, 14; Arts and Theol., 3; Arts, Sc., and Med., 5; Sc. and Med., 35; Single Class, 31 (w.—21).

THE ROYAL TECHNICAL COLLEGE, GLASGOW

[Affiliated to the University of Glasgow.]

Chairman of the Board of Governors—JAMES MACKENZIE, LL.D.

Director—H. F. STOCKDALE, LL.D.

PROFESSORS, LECTURERS, ETC., January 1, 1925.

Architecture and Building

Hughes, T. H., A.R.C.A., A.R.I.B.A. Prof. and Dir. of Arch. Studies.
Gourlay, C., B.Sc., F.R.I.B.A. Prof.
Brown, T., A.I.Struct.E. Lectr.
Smith, Wm. J., A.R.I.B.A. ,,

Botany and Bacteriology

Ellis, D., D.Sc. Lond., Ph.D. Marb. Prof. (Bact.) & Lect. (Bot.).
Zamorska, Miss W. Asst. Lectr.
Leitch, J. M., B.Sc. Demr.

Chemistry, Technical

Gray, T., D.Sc., LL.D., Ph D. Jena, F.I.C. Young Prof. and Dir. of the Sch. of Chem.
Cruickshanks, G. S., Ph.D. Leip., F.I.C. Lectr.
Buchanan, Walter J., A.R.T.C. Demr.
Heriot, T. H. P., F.I.C. Lectr. (Sugar Manuf.).

Chem., Inorg. and Analyt.

Caven, R. M., D.Sc. Lond., F.I.C. Prof.
Sutherland, Maggie M. J., D.Sc., F.I.C. Lectr.
Cranston, J. A., D.Sc., A.I.C. (Physical Chem.) Lectr.
Duncan, J. G., F.I.C., A.R.T.C. Lectr.
Gordon, P. F., Ph D., A.I.C. Lectr.
Pickering, E. C., B.Sc. Lond., A.I.C. Lectr.

Demrs.:

Brown, A. C., A.I.C., A.R.T.C.
Crawford, A. B., B.Sc., A.R.T.C., A.I.C.
Burns, R., A.R.T.C., A.I.C.
Mitchell, T. C., B.Sc., A.R.T.C., A.I.C.

Chemistry, Organic

Wilson, F. J., D.Sc. Edin., Ph.D. Leip., F.I.C. Prof.
Cumming, W. M., D.Sc., F.I.C. Lectr.
Hopper, I. V., B.Sc. Lond., A.R.C.S.I., F.I.C. Lectr.

Dyeing, Bleaching, etc.

Steven, A. B., B.Sc. Lond., F.I.C. Lectr.

Engineering, Civil

Moncur, G., B.Sc. Edin., M.I.C.E., M.Amer.S.C.E. Prof.
Hunter, W., B.Sc. Lond., A.M.I.C.E., A.R.T.C. Lectr.
Thomson, G., M.A. Edin., M.I.C.E. (San. Eng.) Lectr.

Engineering, Electrical

Smith, S. Parker, D.Sc. Durh., M.I.E.E., A.M.I.C.E. Prof.
MacKellar, D. J., B.Sc., A.R.T.C., A.M.I.E.E. Lectr.
Meade, F. E., A.M.I.E.E. Lectr.

Asst. Lectrs. and Demrs. :
Farrell, J. F. E., B.Sc., A.M.I.Mech.E.
Shearer, G., B.Sc.
Macwhirter, R., B.Sc.

Engineering, Mechanical
Mellanby, A. L., D.Sc. Durh., M.Sc. McG., M.I.Mech.E. Prof.
Kerr, Wm., Ph.D., A.R.T.C. Assoc. Prof.
Sinclair, J. H., M.Sc. Vict., B.Eng. Liv. Lectr.
Smith, J., B.Sc., A.M.I.Mech.E. Lectr.
Blacklock, W., B.Sc. Lond. Lectr.
Caldwell, P. S., A.R.T.C., A.M.I.Mech.E. Lectr.
Ramsay, J., B.Sc. Lond., A.M.I.C.E., A.M.I.Mech.E. Lectr.

Asst. Lectrs. and Demrs. :
Ferguson, W., B.Sc. Lond.
Grassie, J. C., B Sc.
Milnes, W. A.
Sneeden, O., B.Sc.
Garrick, J. A., B.Sc.
Biggam, J., B.Sc.
Gnodde, E. P. D., B.Sc.

Engineering, Mining
Burns, D., M.I.Min.E. Prof.
Stevenson, J., B.Sc. Lectr.
Miller, Wm., B.Sc. Demr.
Gray, Wm. Demr.

Geology, Economic .
Edwards, E. J., M.Sc. Manc. and Leeds Lectr.

Mathematics
Miller, J., M.A., D.Sc. Prof.
Paul, J., M.A., B.Sc. Lectr.
Geddes, S., M.A. Lectr.

Metallurgy
Andrew, J. H., D.Sc. Manc. Prof.
Higgins, R., B.Sc., A.R.T.C. Lectr.

Metallurgical Chemistry
Hay, R., B.Sc., A.I.C. Lectr.

Natural Philosophy
Muir, J., D.Sc., M.A. Camb. Freeland Prof.
Rankin, J. S., B.Sc., A.R.T.C. Lectr.

Asst. Lectrs. and Demrs. :
M'Kerracher, D., B.Sc., A.R.T.C.
Somerville, J. B., B.Sc.
Anderson, R. Q., B.Sc., A.R.T.C., A.I.C.
Binnie, D., B.Sc.

Naval Architecture
Gray, W. M., B.Sc., M.I.N.A. Lectr.

Pharmacy and Mat. Med.
Todd, J. P., Ph.C. Lectr.

Sugar Manufacture, v. Chem.

Textile Manufacture
Watson, W. Lectr.
2 Asst. Lectrs.

GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861), were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Applied Science and for the Diploma of the College. Courses in the following qualify for the Diploma only: Building, Naval Architecture, Textile Manufacture. There are also Departments of Navign. and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 (in Chem. and Metall., 4)

yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of over £67,000 has been raised, is carried on at the College.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs' course) are issued.

FEES for tuition: diploma, 25 gs. p.a., degree, 90 gs. for course.

THE YEAR 1923–24

BENEFACTIONS. Subscriptions and Donations, £9447—£4793 to Revenue and £4654 to Capital—including legacy of £1000 from James Smith of Kelvinside, Glasgow, grant of £1500 from T. Graham Young Trustees in supplement of endowment of Young Chair of Technical Chem., and grant of £2250 from Miners' Welfare Fund for mining apparatus.

An ADDITIONAL LABORATORY was provided for Mech. Engineering and one, with large scale apparatus requiring a power service, for Mining. Another lab. is being fitted to supplement those devoted to Mechanics.

An ORDINANCE of the Univ. providing for Degrees in Architecture was approved, and complete provision was made for preparing students for the Degree.

The College was represented at CONFERENCES which considered the modification, to suit Scottish conditions, of the schemes for the issue of professional certificates and diplomas by the Inst. Mech. Engineers and the Inst. of Chemistry.

INTERCHANGE. Research Scholarship awarded for work to be done at the Univ. of Zurich.

REORGANIZATION. Prof. J. G. Longbottom, Head of Dept. of Mechanics, died on June 7, 1924, and his Chief Asst., Wm. Blackadder, was appointed Prof. at Aberdeen. The Dept. was amalgamated with that of Mech. Engineering and Wm. Kerr appointed Assoc. Prof.

STUDENTS. Full-time, 535 (508 men, 27 women); others, 4281 (4027 men, 254 women): 73 were from abroad—India, 31; South Africa, 14; Egypt, 9; West Indies, 5; Norway, 4; Japan, 3; France, 2; other countries, 5. Degrees obtained: 1 D.Sc. (Glasgow); 5 Ph.D.—Glas. 3, Lond. 1, Sheff. 1. Of 114 College students, including 4 women, who graduated B.Sc. (Glasgow) in Applied Science (55 in App. Chem., including Metallurgy, and 59 in Engin.) 80 had taken the whole or the major part of their course in the College. 6 students graduated B.Sc. of London.

UNIVERSITY EXTENSION WORK (intra-mural evening study): 2587 students (ages 21 to 75) in organized classes and, in addition, 546 tickets were issued for courses on Astronomy of the "extension lectures" type.

UNIVERSITY OF ST. ANDREWS

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The Rt. Hon. EARL HAIG OF BEMERSYDE, O.M., K.T., G.C.B., etc.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C.B.E., Ph.D., D.Sc., LL.D. Glas., F.R.S.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—RUDYARD KIPLING, LL.D., D.Litt.

SECRETARY AND REGISTRAR—ANDREW BENNETT.

LIBRARIAN—GEORGE H. BUSHNELL.

PRINCIPAL OF ST. MARY'S COLLEGE—Very Rev. G. GALLOWAY, M.A., D.Phil., D.D.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—J. Y. MACKAY, M.D., LL.D.

ADVISERS OF STUDENTS AT ST. ANDREWS: IN ARTS—Prof. WEBSTER; IN SCIENCE—Prof. HERRING; IN MEDICINE—Prof. WATERSTON.

AT DUNDEE: IN ARTS AND SCIENCE—Prof. STEGGALL; IN MEDICINE—Prof. CHARTERIS.

UNIVERSITY COURT

PRESIDENT—THE RECTOR.

THE PRINCIPAL, *ex officio*.

THE PRINCIPALS OF ST. MARY'S COLLEGE and UNIVERSITY COLLEGE, DUNDEE, *ex officio*.

THE PROVOST OF ST. ANDREWS and THE LORD PROVOST OF DUNDEE, *ex officio*.

JAMES YOUNGER, LL.D.

WILLIAM LOW, O.B.E., LL.D.

A. MACGILLIVRAY, C.M., M.D., D.Sc.

J. M. DAWSON, M.A.

G. LAWSON, M.A.

JAMES CUNNINGHAM, M.A., LL.D.

Prof. BURNET.

Prof. HERRING.

Prof. GEMMILL.

SECY.—ANDREW BENNETT.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Anatomy

Waterston, D., M.A., M.D., C.M. Edin. Bute Prof.

Mackay, J. Y., M.D. Edin., LL.D. Prof.*

Dow, D. R., M.B., Ch.B. (Regional A.) Lectr. & Asst.

Taylor, John, M.D., Ch.M. Lectr. (Regional A.) & Asst.*

Thomson, Christina J., M.B., Ch.B. Asst.*

Skae, F. M. T., M.D., C.M. Asst.*

Ferguson, J., M.B., Ch.B. Asst.*

Archæology, v. History

* At Dundee.

Biology, v. Nat. Hist.

Botany

..... Prof.*
Robertson, R. A., M.A., B.Sc. Reader.
West, G. Lectr.*
Kean, C. Isobel, B.Sc. Asst.

Chemistry

Read, J., M.A. Camb., B.Sc. Lond., Ph.D. Zür. Prof.
Steele, Ettie S., M.A., B.Sc., Ph.D. Lectr. & Asst.
M'Kenzie, Alex., M.A., D.Sc., Ph.D. Berl., F.R.S. Prof.*
Hynd, Alex., M.A., D.Sc. (Clinical C.) Lectr.
Walker, Nellie, B.Sc., M.A., Ph.D. Lectr. & Asst.*
MacOwan, G., M.A., B.Sc., Ph.D. Lectr.
Howell, O. R., B.Sc., Ph.D. Lectr. & Asst.*
Kerr. C. A., B.Sc. Asst.*
Robertson, W. G., M.A., B.Sc., Ph.D. Asst.

Classics

Burnet, J., M.A. Ox., LL.D. Edin., Ph.D., F.B.A. (Greek) Prof.
Lorimer, W. L., M.A. (Greek) Lectr. & Asst.
Dall, Mrs. A., M.A., Ph.D. Asst.
Lindsay, W. M., M.A. Ox., LL.D., Litt.D., Ph.D., F.B.A. (Humanity) Prof.
Craig, J. D., M.A. (Latin) Lectr. & Asst.
Mills, T. R., M.A. (Latin) Lectr.*

Divinity

Galloway, G., M.A., D.Phil., D.D. Edin. Primarius Prof.
Duncan, G. S., O.B.E., M.A., B.D., B.A. (Bibl. Crit.) Prof.
Baxter, H. J., M.A., B.D. (Ch. Hist.) Prof.
Farnell, L. R., M.A., D.Litt. Ox., LL.D. Gifford Lectr.

Education

..... Prof.†

Engineering, Civ. and Mech., and Drawing

Fulton, A. R., D.Sc. Prof.*
Walker, W. J., B.Sc., Ph.D. Lectr. & Asst.*
Steel, G. S., B.Sc. Lectr. & Asst.*

Engineering, Electrical

Mackay, W. Morton, B.Sc. Lectr. & Asst.*

English Lang. and Lit.

Webster, A. Blyth, M.A. Berry Prof. of E. Lit.
Peterson, W. G., M.A. Lectr. & Asst.
Soutar, G., M.A., D.Litt. Lectr.*
Wright, Miss S. L. P. Asst.
Graham, Margaret, M.A. Glas. Asst.*

French Lang. and Lit. and Rom. Philol.

Lewis, C. B., B.A., L. ès L., Ph.D. Lectr.†
Tanquerey, F. J., L. ès L., B.Sc., D.Litt., O.A. Lectr.†
Aubry, Alice, L. ès L. Asst.

Geology

Innes, D. E. I., M.A. Lectr.†
Kirk, S. R., B.Sc. Asst.
Cumming, G. A., B.Sc. Asst.

German and Teut. Philol.

Smith, Muriel, M.A. Lectr.
Hayens, K., M.A., D.Litt. Lectr.*

Hebrew and Oriental Langs.

Kay, D. M., D.S.O., D.D. Edin., M.A., B.Sc. Prof.
..... Asst.

History, Mediæval [Lectr.†
Williams, J. W., M.A., B.Litt. Ox.

History, Modern

Mackie, J. D., M.A. Lectr.†
Box, P. H., M.A. Ox. Asst.

Law, Scots [Lectr.*
Allison, J., C.B.E., M.A., LL.B.

* At Dundee. † At St. Andrews and Dundee.

Logic and Metaphysics
Stout, G. F., M.A. Camb., LL.D., F.B.A. Prof.

Logic and Psychology
Wright, J. N. Lectr.
Mace, C. A. Lectr. & Asst.

Mathematics and Applied Maths.
Turnbull, H. W., M.A. Reg. Prof.
Steggall, J. E. A., M.A. Camb. Prof.*
Saddler, W., B.A. Camb., M.A. Lectr. & Asst.
Butchart, R. K., B.Sc., Ph.D. Lectr. & Asst.*
Williamson, J., M.A. Asst.
Simpson, Mary C., M.A. Asst.*

Medicine and Surgery, v. *infra*

Natural History
Thompson, D'A. W., C.B., M.A., D.Litt., F.R.S. Prof.
Gemmill, J. F., M.A., D.Sc., M.D. Glas. Prof.*
Sutherland, Christina, B.Sc. Asst.*
Adamson, A. M., M.A., B.Sc. Asst.

Philosophy, Moral, v. also Logic
Morrison, D., M.A. Prof.
..... Asst.

Philosophy, Natural
Allen, H. Stanley, M.A., D.Sc. Prof.
Bagot, J. C. Lectr. & Asst.
Robson, W. G., A.R.C.S. Lectr.
Dallas, Adolphine E. M. M., M.A., B.Sc. Edin. Asst.
Forrest, J., M.A., B.Sc. Lectr. & Asst.*
Malcolm, Ada, B.Sc. Asst.*
Smith, Winifred J., B.Sc. Asst.*

Physics
Peddie, W., D.Sc. Edin. Harris Prof.*

Physiology
Herring, P. T., M.D. Edin. Chandos Prof.
Hynd, Alex., M.A., D.Sc. Lectr. & Asst.
Reid, E. W., B.A., M.B., Sc.D. Camb., F.R.S. Prof.*
Stiven, D., B.Sc. Asst.*

Political Economy
Morrison, C., M.A., LL.B. Lectr.

Psychology, v. Logic

Pub. Health, v. Med.—Fevers

Theology, v. Divinity

Zoology, v. Nat. Hist.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Mills, Arthur, M.D. Lectr.*
3 Instrs.

Bacteriology
Tulloch, W. J., O.B.E., M.D., D.P.H. Prof.*
Maclennan, Norman, M.B. Aberd., D.P.H. Lectr.
Thomson, Wm., M.B., Ch.B. Asst.*
Cumming, W. M., M.B., Ch.B. Asst.*

Diseases of Children
Rogers, J. S. Y., M.B., C.M. Lectr.*
Price, Prof. Ll. T. Lectr.*

Diseases, Mental
Mackenzie, W. T., M.D. Lectr.*

Diseases, Throat, Nose, and Ear
Mathers, R. P., M.D. Lectr.*
Gibson, M. J., F.R.C.S.E. Clin. Tutor.

Diseases, Skin
Milne, F. M., M.A., B.Sc., M.B., Ch.B. Lectr.*

Fevers and Pub. Health
Burgess, W. L., M.B., Ch.B., M.D., D.P.H., D.T.M. and H. Lectr.
MacVicar, Eliz. W., M.B., Ch.B. Asst.

* At Dundee.

Forensic Medicine
Lennox, D., M.D. Lectr.

Materia Medica
Charteris, F. J., M.D. Glas. Prof.*
Buchanan, W. E. A., M.B., Ch.B. Asst.*

Medicine
Patrick, Adam, M.D. Glas. Prof.
Morgan, J. M'I., M.B., Ch.B. Asst.*

*Medicine, Clinical**
Profs. Charteris and Patrick, Drs. Foggie and Kerr (Lectrs.).

Midwifery
Kynoch, J. A. C., M.B., C.M. Edin. Prof.*
Fairlie, Margaret, M.B., Ch.B. Asst. & Tutor.*

Midw. and Gynæc.
Buist, R. C., M.A., M.D. Lectr.*

Ophthalmology
M'Gillivray, A., C.M., M.D. Aberd., D.Sc. Reader.*
M'Gillivray, Allister M., M.B., Ch.B. Clin. Tutor & Asst.*

Pathology
Sutherland, L. R., M.B., C.M. Glas. Prof.*
Tudhope, G. R., M.B., Ch.B., D.P.H. Asst. & Lectr.*

Pathology, Clinical
Milne, F. M., M.A., B.Sc., M.B., Ch.B. Lectr.*

Radiology and Elec. Therap.
Pirie, G. A., M.A., M.D. Instr.*
Milln, G. H. S., M.B., Ch.B. Instr.*

Surgery
Price, Ll. T., M.B., C.M. Prof.*
Brown, F. R., M.B., Ch.B., F.R.C.S. Edin. (Tutor in Clinical S.) Asst.*

Surgery, Clinical
Anderson, J., M.B., Ch.B., F.R.C.S. Edin. Lectr.*
Alexander, R. C., M.A., M.B., F.R.C.S. Edin. Lectr.*
Taylor, John, M.D., Ch.M. Tutor.*

Tuberculosis [Instr.*
Hunter, J. H., M.B., Ch.B., D.P.H.

Vaccination [Lectr.
Scott, Douglas, M.B., Ch.B.

Venereal Diseases [Instr.*
Laird, Andrewina, M.B., Ch.B.
Averill, C., M.B., Ch.B. Instr.*

* At Dundee.

GENERAL INFORMATION (v. also p. 255)

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name, "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1880), was affiliated to and made to form part of the University in 1897.

LIBRARY: 165,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. MUSEUMS at St. Andrews—Anat., Anthrop., Ethnol., Geol., Mineral., Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. LABORATORIES at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol.

FACULTIES. Divinity, Arts, Science, Medicine. Deans: Principal Galloway, Prof. Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

DEGREES, ETC., v. p. 257. Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Pol. Econ.—only in St. And., some—Engineering—only in Dundee. Medical studies after the first two yrs. are taken solely in Dundee, where facilities for clinical instruction are available. Here also is provided a course in Scots Law. Associated with the Univ. is the Dundee School of Social Study and Training.

The M.A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths. or Philos., at least two must be Linguistic, and at least one Scientific. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B.Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st in 4 subjects and an Honours in one.

Diplomas: Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 12 months; L.D.S., 4 yrs.; L.L.A. (for women), attendance on courses not required, standard about the same as that of the ordinary M.A.; Social Study, 2 yrs. after obtaining M.A. or B.Sc. *Certificate* in Social Study for non-graduates over 21 with good general educn., 2 yrs.

FEES for Tuition. B.Sc., £80; B.Sc. (Engineering), 90 gs.; B.Sc. Hons., 90 gs.; M.B., Ch.B., £182. Combined Courses: M.A. and B.Sc., 112½ gs.; M.A. and M.B., Ch.B., £208; M.A., B.Sc. and M.B., Ch.B., £236; B.Sc. and M.B., Ch.B., £220. The above do not include fees for hospl. ticket or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.D. or Ch.M., 20 gs.; D.Litt. or D.Sc., 15 gs.; Ph.D., L.D.S., or D.P.H., 10 gs.; B.Phil. or B.Litt., 6 gs. Dipl. or Certif. in Social Study, 4 gs.; v. also p. 259.

RESIDENCE. University Hall for Women (Warden) at St. Andrews, £66 and upwards p.a., exclusive of tuition fees. Hostel for women students, Dundee (Warden), £40 p.a. Chattan House for men (Warden) at St. Andrews, £56 p.a. and upwards, exclusive of tuition fees.

SCHOLARSHIPS FOR GRADUATES: 13, annual value about £1760; v. also p. 259. Scholarships tenable in other countries: Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ.; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

PUBLICATIONS. *Calendar* (June), 3s. 6d.; U. Coll., Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes* (St. And.) and *The College* (Dundee).

THE YEAR 1923–24

BENEFACTIONS. Mrs. Carnegie, for furnishing Women's Union, St. Andrews, £200; W. J. Matheson, £1000.

NEW BUILDINGS, ETC. Extensions and alteration of parts of United College; New Heating Scheme for United College Buildings; Chemistry and Physics Laboratories, St. Andrews, continued.

NEW DEPARTMENTS AND POSTS. Separate Lectureship in Philosophy restored in United College.

NEW ORDINANCES, ETC. General Ordinance amending B.D. Regulations Ordinance empowering Lectrs. and Readers to be elected Members of Senatus

RESIGNATIONS AND RETIREMENTS. A. E. Taylor, Prof. of Moral Phil., transferred to similar chair in Edinburgh; F. Whyte, Lectr. (Engin.), retired; A. K. Macbeth (Chem.), transferred to Durham; J. S. W. Boyle (Chem.), retired; H. J. Thomson (Latin), transferred to Bangor, succeeded by J. D. Craig from Sheffield; G. MacOwan, Asst. (Chem.); E. Macdougall (Chem.), retd.; J. Stirling (Botany), appointed Lecturer at Liverpool; J. McI. Morgan (Laryngology), retd.; D. R. R. Burt (Nat. Hist.), retd.; A. Carruthers (Physiol.), retd.; J. Maitland Anderson, Librarian, retd.; C. Black (Maths.), retd.

DEGREES CONFERRED. M.A., 60 (including women—35); B.Sc., 31 (women—14); B.D., 4; M.B., Ch.B., 64 (w.—16); M.D., 4 (w.—nil); B.Litt., 1; Ph.D., 7 (w.—nil).

STUDENTS. Undergraduates proceeding to degrees, 611 (women—283); other full-time students, 72 (w.—13); part-time, 69 (w.—23).

UNIV. EXTENSION. Programme of evening classes arranged for 1925 for railway managing and clerical staffs in Railway Geography, etc.

THE QUEEN'S UNIVERSITY OF BELFAST

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY, K.G., LL.D., P.C.

PRO-CHANCELLORS—Sir HIRAM S. WILKINSON, LL.D., D.L.; Sir WM. WHITLA, M.A., M.D., LL.D., D.Sc.; Rt. Hon. HUGH O'NEILL, M.P., LL.D.

PRESIDENT AND VICE-CHANCELLOR—R. W. LIVINGSTONE, M.A. Ox., D.Lit.

REPRESENTATIVE IN THE PARLIAMENT OF THE UNITED KINGDOM—Col. T. SINCLAIR, C.B., M.D., F.R.C.S. Eng.; IN PARLIAMENT OF NORTHERN IRELAND—Sir JOHN CAMPBELL, M.A., M.D., LL.D., F.R.C.S. Eng.; J. H. ROBB, B.A., K.C.; Prof. R. J. JOHNSTONE, B.A., M.B., F.R.C.S. Eng.; H. S. MORRISON, M.D.

REGISTRAR—Col. T. SINCLAIR, C.B., M.D., M.Ch., F.R.C.S. Eng.

LIBRARIAN—Prof. G. GREGORY SMITH, M.A., LL.D.

SECRETARY—J. M. FINNEGAN, B.A., B.Sc.

SECRETARY OF ACADEMIC COUNCIL—Prof. R. M. HENRY, M.A.

BURSAR—JOHN GREEN, C.A.

CHAIRMAN OF CONVOCATION—Sir JOHN CAMPBELL, M.A., LL.D., M.D., F.R.C.S. Eng.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Agriculture

8 Extra-Mural Lecturers.

Agricultural Botany and Plant Diseases

Mercer, S. P., B.Sc. Prof.
Clouston, D., B.Sc. Asst.
Muskett, A. E., B.Sc., A.R.C.Sc. Asst.
Seaton, I. W. Lectr. (Plant Genetics).

Agricultural Chemistry [Prof.

Robertson, G. S., D.Sc. Durh.
Dickinson, F. Asst.
Baskett, R. C.

Agricultural Zoology

Rhynehart, J. C., F.R.C.S.I. Lectr.

Anatomy

Walmsley, T., M.D. Glas. Prof.
Hunter, R. H., M.D. Lectr.
Malcolm, H. P., M.B., Ch.B. Lectr.
Hazelton, W. G., M.B. Demr.
Fraser, Ian, M.B. Demr.

Anatomy, Applied, Operative Surgery and

Crymble, P. T., M.B., F.R.C.S. Eng. Lectr.

Archæology
..... Lectr.

Bio-Chemistry [Prof.
Milroy, J. A., M.A., M.D. Edin.

Botany
Small, J., D.Sc. Lond. Prof.
Martin, Sarah H., B.Sc. Demr.
Lynn, Mary J., M.Sc. Demr.

Celtic
O'Connell, F. W., M.A., Litt.D., B.D. Dub., M.R.A.S. Lectr.

Chemistry
Stewart, A. W., D.Sc. Glas. Prof.
Ellison, T., M.Sc. Asst.
Crowe, W. H., M.Sc. Asst.
Marsh, J. K., M.Sc. Asst.

Chemistry, Applied *

Chemistry, Organic
Graham, Hugh, D.Sc. Lectr.

Classics
McElderry, R. K., M.A. Prof. (Greek).
Henry, R. M., M.A. (Latin) Prof.
Tate, J., M.A. Dub. (Latin) Asst.

Commerce
Meredith, H. O., O.B.E., M.A. Camb., M.Com. Manc.
Dean of the Faculty, Lectr. in C. and Geog., and Prof. of Economics.

Recognized Teachers in the Munic. Coll. of Tech. :
Dodd, F. T. Lloyd, M.A., D.Sc. Prof.
Boyd, D. T., B.Com.Sc. (Accounting).
McMillan, H. (Accounting).
M'Cracken, W. J., B.A., B.L. (Coml. Law).
Dunne, T. (Econ., Geog., and Business Methods).
Fleet, H. (French).
Sueyras, M. (Spanish).
Carson, J. H. A., M.A. (Maths.).

Dental Science, v. *infra*

Economics, v. Comm., Hist.

Education
M'Callister, W. J., M.A., B.Sc. Prof.
Simms, Florence, M.A. Asst.
Dorward, Jas., B.Sc. Asst.
M'Caughey, E. L., B.A. Asst.
Brown, E. M., M.A. Asst.

Engineering, * *Civil*
Hummel, F. H., M.Sc. Birm., A.M.I.C.E. Prof.
White, G., B.Sc. Asst.
Finnan, E., M.Sc. Asst.

English Language
Belfour, A. O., M.A. Ox. Lectr

English Literature
Smith, G. Gregory, M.A. Ox. and Edin., LL.D. Edin. Prof.
Semple, W. H., B.A. Asst.

French and Romance Philology
Savory, D. L., M.A. Ox. Prof.
Héritier, Berthe Asst.
Moorhead, Margt. D., M.A. Asst.

Geography, v. Com.
Charlesworth, J. K., D.Sc. Leeds, Ph.D. Bres. Prof.

Geology
Reynolds, Doris, M.Sc. Lond. Asst.

German
Williams, R. A., Ph.D. Leip., D.Litt. Dub. Prof.

History, Modern [Prof.
Todd, J. E., M.A. Ox. and Edin.
Hughes, E., M.A. Asst.

History, Economic, and Polit. Sc.
Lemberger, J., M.A. Ox. Lectr.

* V. *infra* Technology.

Law, English
Baxter, J. S., LL.D. Dub. (*Dean* of Faculty) Prof.

Law, Jurispr. and Roman
Strahan, J. A., M.A., LL.B. Prof.

Logic and Metaphysics
Macbeath, A., M.A. Glasgow. Prof.

Mathematics
Dixon, A. C., M.A., Sc.D. Camb. and Lond., F.R.S. Prof.
Geale, Eliza A., M.A. Asst.

Music
Walker, L., B.A., Mus.D. Lectr.

Philosophy, Moral, and History of Philos.
Dorward, A. J., M.A. Camb. Lectr.

Philosophy, Scholastic
O'Keeffe, D., M.A. Lectr.

Physics
Morton, W. B., M.A. Camb. Prof.
Johnson, R. C., Ph.D., B.A., B.Sc. Lectr.
Wylie, J., B.A. Lectr.
Chambers, Florence M., M.Sc. Demr.
Beck, Louise, M.Sc. Hon. Demr.

Musgrave Demrs.:
Elliott, May E., M.Sc.
Wilson, Eilleen M., B.Sc.

Physiology
Milroy, T. H., M.D., B.Sc. Edin. Prof.
Loughridge, J. S., M.B. Sr. Demr.
Campbell, A. E., M.B. Demr.
Rankin, J. C., M.D. Hon. Demr.

Spanish
Llubera, I. G., D.Litt. Mad. Lectr.

Technology, v. *infra*

Veterinary Science
Rice, J. P. Lectr.

Zoology
Wilson, G., O.B.E., M.A., D.Sc. Edin., Ph.D. Freib., M.R.I.A. Prof.
Riddell, W., M.A. Demr.

Medicine (for subjects of first 2 yrs.—Anat. etc., v. *supra*)

Bacteriology
Allison, V. D., M.D. Lect.

Gynæcology
Johnstone, R. J., B.A., M.B., F.R.C.S. Eng. Prof.
Greer, H. L. H., M.B. Asst.

Hygiene, v. also Pub. Health
Wilson, W. J., B.A., M.D., D.Sc., D.P.H. Prof.
Blair, E. M., M.Sc. Demr.
Totton, J. H., B.A., B.Sc. Demr.

Materia Med. and Therapeutics
M'Ilwaine, J. E., M.D. Prof.
Picken, S. B., M.B. Demr.

Medicine
Thomson, W. W. D., M.D., B.Sc., D.P.H. Prof.
Lewis, J. T., M.D., B.Sc. Asst.

Medical Jurisprudence
The Prof. of Pathology Lectr.
Houston, T., M.D., B.A Lectr.

Midwifery and Infantile Diseases, v. also Vacc.
Lowry, C. G., M.D. Prof.
MacAfee, C. H. G., M.B. Tutor.

Ophthalm. and Otology [Lectr.
Craig, J. A., M.B., F.R.C.S. Eng.

Pathology
Symmers, W. St. C., M.B. Prof.
Orr, J., M.B. Demr.

Pathology, Clinical
Houston, T., B.A., M.D. Demr.

Pharmacology
Mayrs, E. B. C., M.D. Lectr.

Pharmacy [Lectr.
Fielden, V. G. L., M.D., Ph.C.

Public Health [Lectr.
Bailie, H. W., L.R.C.P. and S. Edin., L.F.P.S. Glas., D.P.H.

Surgery, v. also Anat.
Fullerton, A., C.B., C.M.G., M.D., M.Ch., F.A.C.S. Prof.
Hall, H. P., M.B., M.Ch. Asst.

Vaccination
M'Liesh, J., M.B., D.P.H. (Asst. in Midw.) Teacher.

Dental Science

Hunter, W. M., L.D.S. Edin. (Mat. Med.) Lectr.
Elwood, H., L.D.S. Edin. and Penn. (Mechanics) Lectr.
Swan, H. M., L.D.S., R.C.S. Eng. (Surgery) Lectr.
M'Keag, H. T. A., B.D.S., B.A. Dub. (Orthod.) Lectr.

Technology (v. also Agr. and Engin.)

Extra-Mural Staff (Hon.), being Profs. and Lectrs. at the Munic. Coll. of Tech.

Architecture
Beaumont, I., A.R.C.A. Lond., F.R.S.A. Prof.

Building Construction
Hampshire, T. R. Lectr.

Chemical Technology
Wren, H., M.A., D.Sc., Ph.D. Prof.
Still, C. J., M.Sc., Ph.D., A.I.C. Lectr.
Hughes, Miss K. H., B A., M.Sc. Lectr.

Electrical Engineering and Physics
Burns, P., B.Sc. Prof.
Jefcoat, C., A.R.C.Sc.I. Lectr.
M'Kenna, O., M.A., B.Sc. Lectr.

Electro-Technics
..... Prof.

Mathematics
Earls, J., B.A. (Principal) Prof.
Murphy, J. J. F., B.Sc. Lond. Lectr.

Mechanical Engineering [Prof.
Smith, J. H., D.Sc., A.R.C.Sc.
Warnock, F. V., B.Sc., A.R.C.Sc. Lectr.
Fforde, W. J. (Design) Lectr.
Sandham, B., B.E. (Nav. Archit.) Lectr.

Textile Industries
Bradbury, F. Prof.

RECOGNIZED COLLEGES AND TEACHERS

MUNICIPAL COLLEGE OF TECHNOLOGY, BELFAST, v. *supra*—Commerce and Tech. The complete course for the B.Sc. in Engineering or in Textile Technology may be taken at this college.

COLLEGE OF SCIENCE, DUBLIN, providing instruction for the 3rd and 4th yrs. of the B.Sc. (Agr.) courses, v. p. 320.

GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 99,000 vols. MUSEUMS: Class. Archæol., Nat. Hist., Medical, Materia Medica, Sanitary Science. LABORATORIES: Chemistry ("Donald Currie"), Engineering ("Harland"), Physiology ("Jaffé"), Pathology and Bacteriology ("Musgrave"), Physics, Anat., Bot., Geol., Pharm., Zool. HOSPITALS available for Clinics, 3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

FACULTIES. (1) Arts (including Music), (2) Science (including Civil Engin.), (3) Law, (4) Medicine, (5) Commerce, (6) Applied Science and Technology, (7) Agriculture. Dept. of Dental Science. Deans of Faculties: Profs. (1) Todd (History), (2) Small (Botany), (3) Baxter, (4) Symmers (Path.), (5) Meredith (Economics), (6) Hummel (Engin.), (7) Robertson.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Sc. in Engin. or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B.Sc. in Agric.; 5 yrs. (of which 2 may be in other approved Univs. or Med. Schools)—M.B., Ch.B., B.A.O.; 1 yr.—LL.B. course for graduates of this or another Univ.; B.Agr.

The courses in Elec. and Mech. Engin. are taken in the Municipal College of Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for B.Sc. in Tech. 3 yrs.' day or 5 yrs.' evening classes in the M.C.T. qualify for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

Diplomas. Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for graduates).

HIGHER DEGREES. The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or historical research; they may be obtained by thesis also. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank after the lapse of not less than 1 yr. from graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to graduates in Medicine of 3 yrs.' (if also graduates in Arts or Science, 2 yrs.') standing by examn. or thesis. The M.Agr. may be conferred on a B.Agr. of the Univ. or a graduate admitted *ad eundem* after 2 yrs., for a thesis or independent research. As regards Ph.D. *see* p. 16.

FEES. Enrolment (annual), 3 gs. Class fees, annual (inclusive)—Arts Honours School, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; Dipl. Educn. (2 yrs.), 6 gs.

SCHOLARSHIPS, ETC., FOR GRADUATES of the Univ. Studentships of £50: 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Scholp., £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., of £200 p.a. for research. Four other Studentships of the aggregate annual value of £330.

RESIDENCE. Women's Hostel. Board and residence per annum, about £52. Board and lodging obtainable in the town from about 25s. a week upwards.

There is a GRADUATES' SOCIETY which meets in London. Secy., Dr. W. H. M. McCullough, D.S.O., 152 Harley St., London.

RECOGNITION OF OTHER UNIVS. Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

UNIVERSITY EXTENSION lectures by members of the Univ. Staff are given in Belfast and other towns.

PUBLICATIONS. *Calendar* (Jan.), 2s.; Students' mag., *Fravlio.*

THE YEAR 1923–24

BENEFACTIONS. Trustees of late Rt. Hon. J. C. White, £60,000 for endowment of Depts. of Bio-Chemistry (£45,000) and Bacteriology (£15,000).

NEW DEPARTMENTS, ETC. A faculty of Agriculture and degrees B.Agr. and M.Agr. were instituted

RESIGNATION. Prof. Laird, on appointment as Prof. in Univ. of Aberdeen.

HONORARY DEGREES. *LL.D.*—H.R.H. The Duke of York, H.R.H. The Duchess of York, Rt. Hon. W. F. Massey. *D.Lit.*—R. W. Livingstone. *M.A.*—H. C. Lawlor.

OTHER DEGREES. B.A., 43; M.A., 6; Ph.D., 1; B.Sc., 27; B.Sc. (Engin.), 9; B.Sc. (Appl. Sc.), 7; M.Sc., 17; M.Sc. (Appl. Sc.), 1; D.Sc., 2; M.Com.Sc., 1; B.Com.Sc., 6; M.B., B.Ch., B.A.O., 108; M.D., 12; M.Ch., 1; LL.B., 10; D.P.H., 16; L.D.S., 4; Dip.Ed., 18; Higher Dip.Ed., 17; Higher Dip. in Social Training, 1. Total—314.

NUMBER OF STUDENTS. Faculty of Arts, 284 (including women—175); Teachers in Training (Class A), 60 (w.—37); Science, 165 (w.—81); Appl. Sc. and Tech., 70; Law, 41 (w.—2); Med., 394 (w.—91); Commerce, 63 (w.—14). Total, 1077 (w.—400).

UNIVERSITY OF DUBLIN, TRINITY COLLEGE

CHANCELLOR—The Rt. Hon. the EARL OF IVEAGH, K.P., LL.D., F.R.S.

VICE-CHANCELLOR—The Rt. Hon. BARON GLENAVY, LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); The Rt. Hon. T. F. MOLONY, LL.D.

PROVOST—The Rt. Hon. and Most Rev. J. H. BERNARD, D.D.

REPRESENTATIVES IN PARLIAMENT OF IRISH FREE STATE—E. H. ALTON, M.A.; Sir JAMES CRAIG, M.D.; W. E. THRIFT, M.A.

SENIOR FELLOWS OF THE COLLEGE

Cathcart, G. L., M.A., Auditor.
Purser, L. C., M.A., Litt. D., Vice-Provost.
Roberts, W. R. W., D.D., Senr. Lectr.
Culverwell, E. P., M.A., Senr. Dean and Catechist.
Russell, R., M.A., Bursar.
Fry, M. W. J., M.A., Registrar.
Macran, H. S., M.A.

JUNIOR FELLOWS OF THE COLLEGE

Gwynn, E. J., M.A., Sen. Proctor.
Thrift, W. E., M.A.
Smyly, J. G., Litt.D.
Mooney, G. W., M.A.
*Kennedy, W., M.A.
*†Goligher, W. A., M.A., Litt.D.
*†Fraser, J., M.A.
*†Alton, E. H., M.A.
*Gwynn, R. M., B.D.
†Webb, G. R., M.A., Junr. Bursar and Registrar of Chambers, Junr. Proctor.
*Tate, Sir R. W., K.B.E., M.A., Junr. Dean.
*Thrift, H., M.A.
*†Canning, H., M.A.
*†Luce, A. A., D.D.
*Johnston, J., M.A.
*Henry, J. M., M.A.
*†Godfrey, F. La T., M.A.
Joly, John, Sc.D.
Rowe, C. H., M.A.
Fearon, W. R., Sc.D.
Starkie, W. F., M.A.

* Tutor Fellows. † Honor. Lecturers for 1924–25.

PUBLIC ORATOR—Sir R. W. TATE, M.A.
LIBRARIAN—J. G. SMYLY, Litt.D.
REGISTRAR—M. W. J. FRY, M.A.

REGISTRARS OF THE PROFESSIONAL SCHOOLS

Law—W. A. Goligher, Litt.D.
Physic—G. L. Allen.
Engineering—W. E. Thrift, M.A.
Music—H. S. Macran, M.A.
Civil Service—E. H. Alton, M.A.
Education—R. J. Fynne, M.A.
Agriculture—J. Joly, Sc.D.

REGISTRAR OF S. AFRICAN STUDENTS—G. R. WEBB, M.A.
LADY REGISTRAR—OLIVE C. PURSER, M.A.
WARDEN OF TRINITY HALL—ELIZ. M. CUNNINGHAM. M.A.

PROFESSORS, LECTURERS, ETC., January 1, 1925

Anatomy, v. Zool. and Med.—Surg.

Anglo-Saxon, v. German

Arabic, Persian, and Hindustani
Haig, Sir T. W., K.C.I.E., C.S.I., C.M.G., C.B.E. (Reader in Ind. Hist.) Prof.

Astronomy
..... Royal Astronomer of Ireland Prof.
Martin, C. Asst.

Biblical Greek and Hebrew
Gwynn, R. M., B.D. Prof.

Botany
Dixon, H. H., Sc.D. Prof.
Clark, T. A. Bennet, M.A. Ox. Asst.

Celtic Languages
Gwynn, E. J., M.A. Lectr.

Chemistry
Young, S., Sc.D. Prof.
Ramsden, W. C. Sr. Asst.
Bailey, K. C., M.A. Lectr.
Bell, J. Jr. Asst.

Chemistry, Applied
Werner, E. A., Sc.D. Prof.

Classical Archæol., v. Hist.

Classical Composition
Tate, Sir R. W., M.A. Lectr.

Classics
Smyly, J. G., Litt.D. (Greek) Regius Prof.
Mooney, G. W., M.A. (Latin) Prof.
The Tutorial Staff Lectrs.

Dental Science, v. *infra*

Divinity, v. also Bibl. Gk., Hist., Theol.
M'Neile, A. H., D.D. Regius Prof.
White, N. J. D., D.D. (Lectr. in Hebrew) Abp. King's Prof.
Dungan, W. W., M.A. Wallace Lectr.
Luce, A. A., D.D. Asst.
Forrester, J. C., M.A. Asst.
Greene, D. C., B.D. Asst.
Oulton, J. E. L., M.A. Asst.

Education
Fynne, R. J., M.A. Dub. and Lond. Prof.

Engineering, Civil
Clark, D., B.Sc. Lond., A.M.I.C.E. Prof.
Jackson, J. T., M.A. Asst.
Blair, S. C., M.A.I. Asst.
Cotter, J. R., M.A. Lectr.

Engin. Practice, Elec.
Tatlow, W., M.A., B.A.I. Lectr.

Engineering, Elec. Traction
Harriss, G. M., M.A. Lectr.

Engineering, Harbour
Griffith, Sir J. P., M.A.I.
Hon. Prof.

English Literature
Trench, W. Fitz J., Litt.D. Prof.
Leslie, Mary I., B.A. Asst.

French, v. also Romance
The Tutorial Staff Lectrs.

Geology and Mineralogy
Joly, J., M.A., Sc.D. Prof.
Poole, J. H. J., Sc.D. (Asst. in Physics also) Research Asst.
Smyth, L. B., Sc.B. (Palæontology) Asst. and Lectr.

German [Prof.
Waterhouse, G., M.A. Camb., Litt.D. (Lectr. in Anglo-Saxon)

Hebrew, v. also Bibl. Greek, Div.
Kennedy, W., M.A. Lectr.
Alton, E. H., M.A. Lectr.

History, Ancient, and Classical Archæol. [Prof.
Goligher, W. A., M.A., Litt.D.
Johnston, J., M.A. Asst.

History, Ecclesiastical
Lawlor, H. J., D.D., Litt.D. (also Lectr. on Engl. Bible) Prof.

History, Indian, v. Arabic

History, Modern
Curtis, E., M.A. Ox. (also Prof. of Oratory)
Erasmus Smith's Prof.
Phillips, W. A., M.A. Ox.
Lecky Prof.
Maxwell, Constantia E., M.A.
Lectr.

Irish
O'Rahilly, T. F., M.A. Prof.

Italian, v. also Romance
Tate, Sir R. W., K.B.E., M.A.
Lectr.

Law
Bastable, C. F., LL.D. (also Prof. of Pol. Econ.) Reg. Prof.

Law, Feudal and English
Baxter, J. S., LL.B. Lond., M.A., LL.D.
Reg. Prof. (also Lectr. in Civil L. and Jurispr.).

Law, Const. and Crim., etc.
Ryan, M. J., LL.B. N.U.I.
Reid Prof.

Mathematics
Rowe, C. H., M.A.
Acting Erasmus Smith's Prof. and Donegal Lectr.
Broderick, T. S., B.A. Lectr.
The Tutorial Staff Lectrs.

Medicine and Surgery, v. *infra*

Modern East Indian Langs.
..... Lectr.

Music [Prof.
Kitson, C. H., M.A. Camb., Mus.D. Ox., F.R.C.O.

Oratory, v. History
Curtis, E., M.A. Ox.
Erasmus Smith's Prof.

Oriental Langs., v. Arabic, Hebrew, Modern, Sansk.

Philosophy, Moral
Macran, H. S., M.A. Prof.

Mental and Moral Science
The Tutorial Staff Lectrs.

Philosophy, Natural
Fry, M. W. J., M.A. Prof.
The Tutorial Staff Lectrs.

Physics, v. also Geol.
Thrift, W. E., M.A.
Erasmus Smith's Prof. of Nat. & Exper. Philos.
Thrift, H., M.A. Asst.

Physiology, v. Med.

Political Economy, v. Law

Romance Languages, v. also French, Ital.
Rudmose-Brown, T. B., M.A., D.Litt. Grenoble. Prof.
Starkie, W. F., M.A. Asst.

Sanskrit and Comp. Philol.
Canning, H., M.A. Prof.

Theology, Pastoral
Drury, T. W. E., M.A. Prof.

Zoology and Comp. Anat.
Gatenby, J. B., D.Phil. Ox., D.Sc. Lond. Prof.

Medicine

Anæsthetics
Kirkpatrick, T. P. C., M.D. Lectr.

Bact. and Preventive Medicine
Bigger, J. W., M.D. Prof.
Horgan, E. S., M.B. Asst.

Laryngology and Otology
Woods, Sir Robt. H., M.Ch. Hon. Prof.

Materia Med. and Pharmacy
Moorhead, T. G., M.D. King's Prof.

Med. Jurispr.
Bewley, H. T., M.D. Lectr.

Medicine, Institutes of, and Physiology.
Pringle, H., M.D. King's Prof.
Fearon, W. R., Sc.D. Asst.

Medicine, Practice of
Craig, J., M.D. King's Prof.

Midwifery
Wilson, T. H., M.A. King's Prof.

Pathology
Wigham, J. T, M.D. Prof.
Smith, E. C., M.B. Junr. Asst.

Physic
Purser, J. M., M.D. Regius Prof.

Surgery and Anatomy
Dixon, A. F., M.B., Sc.D. Prof.
Taylor, Sir Wm., K.B.E., M.D. Regius Prof. of S.
Gordon, T. E., M.B. Prof. of S.
Pearson, W., M.D. Asst. in S.
McConnell, A. A., M.B. Lectr. in Applied A.
West, C. M., M.D. Chief Demr. and Univ. Anatomist.
Haughton, W. S., M.D. Hon. Prof. (Orthopædic S.).

Dental Science

..... Lectr. (*Dental Surg. and Pathol.*).
Friel, E. S., M.Dent.Sc. Lectr. (*Orthodontia*).
Cockburn, J., L.D.S. Lectr. (*Dental Mechanics*).

ASSOCIATED COLLEGES

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.

CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two-years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as " Sophisters " (3rd year).

GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as " Mater Universitatis," but no other College has been founded, so that " Dublin Univ." and " Trinity College " are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent of 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation. The general government of the Univ. is in

the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the various Faculties and Schools, has the right of appointment to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions. The power of making new statutes was reserved to the Crown until 1911, when by Letters Patent this power was given to the Board subject to the consent of a majority of the Fellows and the approval of the Visitors.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in England. It contains 372,000 volumes and 2000 MSS., affording an unrivalled field for the study of Irish palæography. A catalogue of MSS. in the Library was published in 1900. There is a lending library of 6000 vols. bequeathed by the late W. E. H. Lecky, and departmental libraries in German and the Romance Languages, in Botany, and in Zoology.

MUSEUMS. The scientific museums include Zool. and Comp. Anat., Geol. and Mineral., Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological are among the best collections in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES. Anthrop., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). BOTANIC GARDENS, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College. It is the official residence of the Royal Astronomer of Ireland.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

PROFESSIONAL SCHOOLS. Divinity, Law, Physic, Engineering, Indian and Home Civil Service, Agriculture, Forestry, Music, Education.

DEGREES. Every student must take the B.A. before proceeding to any other degree, except those in music. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school are required to attend Arts lectures in every term, unless specially exempted (*e.g.* those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junr. and Senr. Freshman) all subjects are compulsory: Algebra, Geom., Trig., Mech., Logic, Engl. Essay, Latin, Greek *or* French *or* Irish *or* German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honour* B.A.—known as a *Moderatorship*—can be taken in 11 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Philos., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. and Pol. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 4, 5, 6, 7, three years in Nos. 3 and 10, and two years in No. 8. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.D. is obtained by an examn. open to all grads. in Arts, and the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 5 yrs.; B.Dent.Sc., 4 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.); Agr.B. or Agr. (Forest) B., 4 yrs., of which 3rd and 4th are taken in Coll. of Science. The Sc.B. and Ph.D. (v. p. 16) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs.' standing as B.A., and submit important original work; for LL.D. must be of M.A. standing—a thesis or examn. is required; for M.D. must have taken the M.B. degree and be of M.A. standing; for M.Ch. must be a B.Ch. of 3 yrs.' standing; for M.A.O., a B.A.O. of 2 yrs.' standing; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc. must be a B.Dent.Sc. of 1 yr.'s standing, and pass an examn.; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I. The Mus.D. is granted after an exercise or practical test.

DIPLOMAS in Agric., Educn. (Primary and Higher), Econ. and Comml. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr. course), D.P.H., Religious Knowledge (women).

License in Engineering (first two years of Arts course and complete course in Engineering). License in Med., Surg., and Obst. Science.

Certificate in Engineering (complete course in Engineering, but without Arts course).

Testimonium in Divinity (2 yrs.' course).

RECOGNITION OF OTHER UNIVS., ETC. Credit is allowed for terms kept at Oxford or Cambridge, but no student or graduate of any other Univ. can take the B.A. unless he has kept at least 2 yrs. at Trinity College. No student can take any medical degree unless he has attended at least 3 yrs. in Trinity College.

A B.A., B.Sc., or M.A. of any of the undermentioned Univs. may be allowed credit *pro tanto* for the first 2 yrs. and the examn. held at their expiration: Aberd., Belf., Birm., Brist., Edin., Glas., Leeds, Liver., Lond., Manch., St. And., Sheff., Wales, and Nat. Univ. of Ireland.

A student who has passed two years in Arts studies at any of the undermentioned Univs. and passed the examns. belonging to that period is given credit *pro tanto* for the first academic year: Adel., All., Bom., Cal., Dacca, Dalh., McGill, Madr., Mel., N.Brun., N. Zea., Panj., Patna, Syd., Tas., Tor., King's Coll. (Windsor, N.S.).

A student who has passed the Matricn. examn. of any Univ. in S. Africa, ncluding Latin, Maths., and either French, German, Dutch, or Greek, is admitted without further examn., and, if a Med. student, is excused the Prelim. Med. examn. Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examns. n these last two subjects. Courses in Path. and Bact. at Cape Town and Witwatersrand are also recognized.

A student who has passed the Interm. examn. of any Univ. in S. Africa is permitted to present himself at the Final Freshman examn., with exemption from those subjects in which he has already passed at the Interm. examn.

A student who has passed the B.A. examn. of any Univ. in S. Africa is allowed credit for the 1st two collegiate yrs. and for the Final Freshman examn.

To students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees.

In keeping terms students from S. Africa are allowed to substitute Dutch for French or German, when 2 languages are required. 2 exhibitions each are offered for medical students from S. Africa, on the nomination of the Univs. of S. Africa and Stellenbosch, value from £150 to £200 according to the number of years spent in Dublin (3-5).

Likewise the Board and Council are prepared, in the case of students of Medicine, to consider applications from Colonial Univs. and Colls. for recognition of courses of instruction given by them.

Students from S. Africa should write to the Registrar of S. African students for fuller information.

No recognition granted under this scheme will exempt a student wishing to take the Dublin degree from spending at least three full years of Med. study in Trin. Coll.

FEES. Entrance, £15; Composition for all Arts Lectures, 20 gs. p.a.; Medical course total (including Hospitals and Degree fees), about £150; Dental Science total, about £200; Engineering, (3 yrs.) £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs. p.a. for others.

Among SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES are: Two studentships of £100 offered at the B.A. degree examn.; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent in Berlin, Paris, or Vienna). A number of other prizes, etc. (including the National Hist., nearly £400), are open to graduates under M.A. standing.

RESIDENCE. The College has accommodation for 320 students. Rent £6 to £30 p.a. (for rooms intended to accommodate 2 students); dinner in Hall, 14s. a week. Trinity Hall accommodates 40 women; board and residence, £23 : 10s. to £28 : 10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland.

PUBLICATIONS. *Calendar* (Nov.), 4s., includes information as to courses, results of examns., degrees conferred, etc.; special Suppt. (occasional), lists of past honours, benefactors, etc.; *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d. *Book of T.C.D.*, 1591–1891, 21s. (Hodges, Figgis & Co., Dublin). *Hermathena* (occasional), original papers in Arts subjects. *T.C.D.* (Students'), 3d. weekly.

THE YEAR 1923–24

BENEFACTIONS. £10,000 for benefit of Med. School from J. M. Purser, M.D., Reg. Prof. of Physic; Commemorative tablet to G. A. Exham (retired Fellow) from S. African students in recognition of his services in their interests; a portrait of the Provost presented by the Chancellor.

NEW POST. Hon. Prof. of Orthopædic Surgery.

CHANGES IN CURRICULUM. A reorganization and increase in the lectures, Pass and Hons., in Modern Irish; Terminal Hons. Examns. in Natural Science in freshman years instituted.

OTHER DEVELOPMENTS. New Degrees founded (in connexion with College of Science): Sc.B. (Tech.), B.A.I. (Mech.), B.A.I. (Elec.). A Mathematical Society and a Modern Languages Society were started. Long Vacation Courses in Education, both Primary and Secondary, were given.

HONORARY DEGREES. *D.D.*—McKew, Ven. R. *LL.D.*—Healy, His Excellency T. M. *M.D.*—Chambers, J. *Litt.D.*—Gardner, E. A. *Sc.D.*—Millikan, R. A., Poulton, E. B.

OTHER DEGREES. D.D., 5; LL.D., 2; M.D., 10; Sc.D., 2; D.Ph., 1; B.D., 4; M.A., 75 (including 3 women); M.A.I., 1; LL.B., 12 (w.—1); M.B., 90 (w.—12); B.A.I., 35; B.Dent.Sci., 8; B.Sc., 1; B.Agr., 2; B.Appl.Sci., 1; B.A.I. (Elec.), 2; B.A., 258 (w.—53); Mus.D., 1; Mus.B., 1.

STUDENTS, June 1924: in Arts (including most professional students other than fifth-year medical), undergrads., 863 (including women—225); graduates, 73 (w.—17). Total, 936. In addition 196 medical students not at the time on the books in Arts, and 98 primary teachers in training.

DONELLAN LECTURER (on the Manichees)—F. C. Burkitt, D.D.

DEATHS. Prof. A. C. O'Sullivan (Pathology), A. W. W. Baker, Lectr. in Dent. Surg. RETIREMENT: Prof. J. v. S. Pope (Mod. East Indian Languages). RESIGNATION: N. G. Ball, Asst. in Botany.

THE NATIONAL UNIVERSITY OF IRELAND

VISITOR—H.M. THE KING.

CHANCELLOR—EAMON DE VALERA, B.A., B.Sc.

VICE-CHANCELLOR—DENIS J. COFFEY, M.A., M.B., B.Ch., B.A.O., LL.D. President, Univ. Coll., Dublin—*until* Dec. 31, 1926.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., DUBLIN AND GALWAY, AND ST. PATRICK'S COLL., MAYNOOTH.

REPRESENTATIVES IN THE DAIL—M. HAYES, M.A.; P. M'GILLIGAN, M.A.; W. MAGENNIS, M.A.

REGISTRAR—FRED. H. WIBER, 49 Merrion Square, Dublin.

CONSTITUENT COLLEGES. University Colleges, Dublin, Cork, and Galway.

RECOGNIZED COLLEGE. St. Patrick's College, Maynooth.

PROFESSORS AND LECTURERS, January 1, 1925

Prof. of Catholic Theology—J. J. Hannon.

Staffs of the Univ. Colleges, v. *infra*.

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President—Rt. Rev. Monsignor MacCaffrey, Ph.D.). *Classics*—J. F. D'Alton, M.A., D.D., D.Litt.; T. Fahy, M.A.; J. Duff, M.A. *Eastern Languages*—P. Boylan, M.A., D.Litt. *English*—C. Mulcahy; P. MacSweeney, M.A. *French and German*—J. L. Rigal, M.A. *Irish*—G. O'Nolan, M.A., D.Litt. *Maths. and Math. Physics*—P. J. Browne, M.A., D.Sc. *Expl. Physics*—P. J. Nolan, M.Sc., Ph.D., *Mental and Moral Philos.*—M. Forker, D.Ph.; P. Coffey, D.Ph.; J. O'Neill, D.Ph. *Music*—..... *Welsh*—P. Walsh, M.A.

GENERAL INFORMATION

Queen's University in Ireland, founded in 1850, was replaced in 1880 by the Royal University of Ireland, which was dissolved along with Queen's College, Belfast, on Oct. 31, 1909. On this date the National University of Ireland, Univ. College, Dublin, and Queen's University of Belfast came into being, and the Colleges previously known as Queen's at Cork and Galway became with the new College at Dublin constituents of the N.U.I.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce. Music is included in Arts and Celtic Studies. Classes are held in all Faculties at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc.,

B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health, B.D.S., M.D.S.; B.E., B.Arch., M.E., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—9 terms in one of the Constituent Colls. or St. Patrick's.

The M.Sc., M.Agr.Sc., D.Sc., B.Sc., Pub. Health, M.E., M.Arch., Ph. D. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). See p. 16.

Diplomas are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent Colls.

FEES: Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas £2 to £5.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs.') standing; one of £150 in Mental and Nervous Diseases; one of about £40; prize of £100 for Irish Historical Research.

PUBLICATION. *Calendar* (July), 2s.

THE YEAR 1924. Degrees, etc., conferred: B.A., 193 (including women—35); M.A., 12 (w.—1); B.Sc., 47 (w.—15); M.Sc., 12 (w.—4); LL.B., 2; M.B., etc., 176 (w.—34); M.D., 5 (w.—1); M.Ch., 2; M.A.O., 2; B.D.S., 17 (w.—5); B.E., 37; B.Com., 41 (w.—25); B.Agr.Sc., 2; D.Sc., 1; B.Sc. (Pub. Health); D.P.H., 12 (w.—5); Dip.Ed., 75 (w.—12); Higher Dip.Ed., 63 (w.—39).

UNIVERSITY COLLEGE, DUBLIN

VISITOR—H.M. THE KING.
PRESIDENT—D. J. COFFEY, M.A., M.B., B.Ch., B.A.O., LL.D.
REGISTRAR—Prof. A. W. CONWAY, M.A., D.Sc., F.R.S.
SECRETARY AND BURSAR—J. W. BACON, M.A.
LIBRARIAN—J. J. O'NEILL.

PROFESSORS AND LECTURERS OF THE UNIVERSITY, January 1, 1925

Accountancy
O'Connor, D., A.C.A. Lectr.

Agriculture [Prof.
Drew, J. P., M.Sc., A.R.C.Sc.I.

Anatomy
M'Loughlin, E. P., B.A., M.B., B.Ch., B.A.O. Prof.

Archæology, Celtic [Prof.
Macalister, R. A. S., M.A., D.Litt.

Architecture
Butler, R. M., F.R.I.B.A. Prof.

Banking and Finance
Leet, F. L., LL.D. Lectr.

Botany
Doyle, Joseph, B.A., M.Sc. Prof.

Chemistry
Ryan, H., M.A., D.Sc. Prof.

Classics
Tierney, M., M.A. (Greek) Prof.
Semple, P., M.A. (Latin) Prof.

Commerce
Shields, B. F., M.A. Prot.

Dental Mechanics
Potter, J. I., L.D.S. Prof.

Dental Surgery [Prof.
Sheridan, E., L.D.S., F.R.C.S.I.

Economics, National, of Ireland
Oldham, C. H., B.A. Prof.

Education [Prof.
Corcoran, T., S.J., B.A., D.Litt.

Engineering, Civil
Purcell, P. F., M.A., M.A.I. Prof.

English Lang. and Philology
..... Prof.

English Literature
Donovan, R., B.A. Prof.

French and Romance Philol.
Chauviré, R., D. ès L. Prof.

Geology
Seymour, H. J., B.A., B.Sc. Prof.

German
Macken, Mrs., M.A. Prof.

History [Prof.
O'Sullivan, J. M., M.A., Ph.D.

History, Early, including Mediæval Irish
MacNeill, J., B.A., D.Litt. Prof.

History, Modern Irish
Hayden, Mary T., M.A. Prof.

Irish, Early and Mediæval
Bergin, O., D.Litt. Wales, B.A., Ph.D. Prof.

Irish Lang. and Lit., Modern
Hyde, D., LL.D., D.Litt. Prof.

Irish Language
O'Farrelly, Agnes, M.A. Lectr.

Italian and Spanish
Degani, Maria A., Dipl. Univ. Padua Prof.

Law, Const., and Wrongs
MacNeill, J. G. Swift, M.A. Ox., K.C. Prof.

Law, Jurispr., and Internat. and Roman [Prof.
Binchy, D. A., M.A., Ph.D.

Law of Property and of Contracts
Clery, A. E., B.A., LL.D., B.L. Prof.

Mathematics
M'Weeney, H. C., M.A. Prof.

Mathematics, Pure
Egan, M. F., S.J., M.A. Lectr.

Mathematical Physics
Conway, A. W., M.A., D.Sc., F.R.S. Prof.

Medicine and Surgery, v. *infra*

Music
Larchet, J. F., Mus.D. Prof.

Oriental Languages
Boylan, P., M.A., D.Litt. Prof.

Philosophy
Cronin, M., M.A., D.D. (Ethics and Politics) Prof.
Shine, J., M.A. (Logic and Psychology) Prof.
Magennis, W., M.A. (Metaphysics) Prof.

Physics, Experimental
Nolan, J. J., M.A., D.Sc. Prof.
Dowling, J. J., M.A. Lectr.

Physiology and Histology
O'Connor, J. M., B.A., M.D. Prof.

Political Economy
Finlay, T. A., S.J., M.A. Prof.

Welsh
Jones, J. Ll., M.A., B.Litt. Prof.

Zoology
Butler, J. B., M.A., M.B., B.Ch., B.A.O. Prof.

Medicine

Hygiene and Med. Jurispr.
Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. Prof.

Mat. Med. and Therap.
Hayes, Maurice, F.R.S.C.I. Prof.

Medicine
O'Carroll, J. F., M.D., LL.D., F.R.C.P.I. Prof.

Midwifery and Gynæc.
Smith, A. J., M.B., B.Ch., M.A.O., F.R.C.S.I. Prof.

Ophthalmology
Werner, L., B.A., M.B., B.Ch., B.A.O., F.R.C.S.I. Prof.

Pathology and Bacteriology
M'Weeney, E. J., M.A., M.D., M.Ch., M.A.O., D.P.H., F.R.C.P.I. Prof.

Pathology, Special
Crofton, W. M., B.A., M.D. Lectr.

Surgery [Prof.
M'Ardle, J. S., M.Ch., F.R.C.S.I.

GENERAL INFORMATION (v. also p. 310)

The College was constituted by Royal Charter in 1909. The LIBRARY, 63,000 vols., includes the books of the late Catholic Univ. and R.U.I. and the Zimmer Celtic Library. MUSEUMS: Ancient History. LABORATORIES include those of the late R.U.I. and of the new buildings completed in 1919.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, annual, in degree courses: Arts or Comm.—14 gs.;

Science—£20 to £25 ; Engin.—£20 to £23 ; Law (in addition to Arts)—8 gs. ; **Med. (including Coll. Hospl.), whole period—£165.**

COLLEGE SCHOLARSHIPS, post-graduate in Arts or Science, 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of residence.

PUBLICATION. *Calendar*, Nov. 5s.

THE YEAR 1923–24. *Degrees* obtained : B.A., 87 ; M.A., 11 ; B.Com., 21 ; B.Sc., 26 ; M.Sc., 8 ; LL.B., 2 ; M.B., 101 ; M.D., 1 ; M.A.O., 2 ; D.P.H., 7 ; B.D.S., 8 ; H.Dip.Ed., 42 ; B.E., 19. *Students* : graduates, 28 ; full-time undergraduates, 1174 ; occasional, 27. Total, 1232 (women—304).

UNIVERSITY COLLEGE, CORK

VISITOR—H.M. THE KING.
PRESIDENT—P. J. MERRIMAN, M.A.
REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D.
SECRETARY AND BURSAR—J. DOWNEY.
LIBRARIAN—J. FAWCETT, M.A.

PROFESSORS AND LECTURERS OF THE UNIVERSITY, January 1, 1925

Accounting
MacCarthy, C. P., M.Comm. Lectr.
1 Demr.

Agriculture
Boyle, C., M.A. Wisc., B.Sc., Ph.D. Lond. Prof.
Grimes, M., M.Sc. Tor., Ph.D. Iowa Asst. (Bacteriology).

Anatomy [Prof.
Fitzgerald, D. P., B.A., M.B.
Henley, F. J., B.A., B.Sc., M.B. Asst.
Kiely, P., B.Sc., M.Ch., M.D. Asst.
1 Demr.

Archæology
Power, P., M.R.I.A. Prof.

Architecture
Hill, H. H., B.A. Liv. Lectr.

Botany [Prof.
Cummins, Maj. H. A., M.D., C.M.G.
1 Demr.

Chemistry
Reilly, J., M.A. Camb., D.Sc. Geneva, H.Dip.Ed., F.R.C.Sc.I., F.I.C., F.I.P. Prof.
Taylor, John, D.Sc. Asst.
Kennedy, R., M.Sc. Asst.
Conroy, T. A., M.A., H.Dip.Ed. ,,

Classics
Treston, H. J., M.A., D.Litt. Prof.
Porter, W. H., M.A. Dub. Lectr.

Dental Materia Med.
Cantillon, E. V., M.B., B.Ch., B.A.O. Asst.

Dental Mechanics
Sheedy, G., L.D.S. Lectr.

Dental Surgery
Hackett, J. R., M.B., B.Ch., B.A.O., L.D.S. Lectr.

Economics and Commerce [Prof.
Busteed, J., B.Comm., F.S.S.

Education, Methods of
O'Sullivan, Eliz. M., M.A. Prof.

Education, History of
M'Sweeney, E. P. Lectr.

Electrical Technology
Belas, P. E., B.A., M.Sc. Lectr.

Engineering, Civil
Walsh, H. N., M.E. Prof.
Coffey, Patrick, B.E. Asst.
1 Demr.

English [Prof.
Stockley, W. F. P., M.A. Dub.

French
Aherne, Catherine, B.A. Asst.

Geology and Geography
Swain, I., B.A. Prof.

German
Curran, Mary, M.A. Prof.

History
Hogan, J., M.A. Prof.

Irish Lang. and Lit.
O'Donoghue, T. Prof.
O'Donoghue, E. Lectr.

Irish Music [Lectr.
Patterson, Annie, B.A., Mus.Doc.

Jurisprudence
Murphy, C. K., M.A., LL.B., H.Dip.Ed. Prof.

Law
Dunlea, W. J., LL.D. (Contracts, etc.) Prof.
..... (Real Property) Prof.

Mathematics
Conran, M. J., M.A., D.Sc. Prof.

Mathematical Physics [Prof.
O'Rahilly, A., M.A., B.Sc., Ph.D.
O'Donoghue, T., M.A. Asst.

Medicine and Surgery, v. *infra*

Music
Lacy, F. St. J., F.R.A.M. Prof.

Philosophy
Fitzgibbon, T. E., B.A., Ph.D. Louvain Prof.
Callaghan, Rev. John, M.A. Asst.

Experimental Physics
Bergin, W., M.A. Dub. Prof.

Physiology
Barry, D. T., M.D., D.Sc., D.P.H., F.R.C.S. Prof.
O'Donovan, J. M., M.Sc., M.D. Asst.
1 Demr.

Romance Languages, v. also French
Ryan, Mary, M.A. Prof.

Spanish
Cooke, W. C. Lectr.

Zoology
Renouf, Louis P. W., B.A. Camb., Dip. Agric. Camb. Prof.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Hygiene [Prof.
Donovan, D. D., L.R.C.P. and S.E.

Materia Med.
Dundon, J., M.B., B.Ch., B.A.O., F.R.C.S. Prof.
1 Demr.

Medical Jurisprudence
..... Lectr.

Medicine
O'Sullivan, P. T., M.D., B.Ch., B.A.O. Prof.

Mental Diseases
McCarthy, O. F., M.B., B.Ch., B.A.O. Lectr.

Midwifery
Corby, H., B.A., M.D., M.Ch. Prof.

Ophth. and Otology
Sandford, A. W., M.D., M.Ch. Dub. Prof.

Pathology [Prof.
Moore, A. E., M.B., B.Ch., B.A.O.
Enright, Margt. A., M.B., B.Ch., B.A.O., D.P.H. Asst.

Surgery
Pearson, C. Y., M.D., M.Ch., F.R.C.S. Prof.
Pearson, C. B., M.D., M.Ch., B.Sc. Asst.

GENERAL INFORMATION (v. also p. 310)

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

LIBRARY: 90,000 vols., including the d'Arbois Jubainville collection of Celtic works. MUSEUMS: Archæol., Ethnol., Geol., Mineral., Nat. Hist., Med.

LABORATORIES. Agr., Biol., Chem., Engin. (Testing, 200,000-lb. machine, and Hydraulics), Geol., Physics, Medical School. BOTANICAL GARDENS. OBSERVATORY with 8″ equatorial and 11″ photo. telescopes, seismograph, and 4″ siderostat.

Complete COURSES provided for all degrees and diplomas of the Univ., except 2 years in the B.Sc.Agric. course. Students are also prepared for the examns. of the Univ. of London. A complete Dairy Institute is in course of establishment.

Commerce students can do 6 mos.' practical work in railway or accountants' offices, etc. Courses in Engin. (Mech., Elec., Chem., Workshop Practice, Design, and Drawing) at the Municipal Tech. Sch. qualify for the B.E. degree.

FEES for tuition, including College fee: Arts, £36 : 10s. to £41 : 10s.; Science, £55; Engin., £63; Med., £145, including Hospl. fees; Dentistry, £160 : 5s., including Hospl. fees; Music, £35.

RESIDENCE. Hostel for men and hostel for women (charitable trust, R.C. only); students are supervised by Officers of Residence.

PUBLICATION. *Calendar* (Sept.), 1s.

THE YEAR 1923–24. Number of students 596, including 165 women. Passed final examns. for: M.B., 61 (including women—16); M.Ch., 1; D.P.H., 3 (women); B.D.S., 5; B.E., 14; B.Sc., 3 (w.—2); M.Sc., 2; B.A., 14 (w.—8); M.A., 1; Higher Dip.Ed., 17 (w.—9); B.Comm., 10 (w.—6).

UNIVERSITY COLLEGE, GALWAY

VISITOR—H.M. THE KING.

PRESIDENT—ALEXANDER ANDERSON, M.A. Camb., D.Sc., LL.D

REGISTRAR AND SECRETARY—Rev. Professor J. HYNES.

LIBRARIAN—Prof. HOWLEY.

BURSAR—Prof. WALSH.

PROFESSORS AND LECTURERS OF THE UNIVERSITY, January 1, 1925

Anatomy
Shea, S., M.B., B.Ch., B.A.O. Prof.
1 Demr.

Archæology, Celtic
Hynes, J., M.A., B.D. Prof.

Chemistry
Dillon, T., M.A., D.Sc. Prof.
Clarke, Miss R., B.A., D.Sc. Demr.

Classics, Ancient
Dempsey, T., M.A. Prof.

Economics, Commerce, & Acctcy.
M'Bryan, F., M.A., H.Dip.Ed. Prof.

Education
..... Prof.

Engineering, Civil
Rishworth, F. S., B.E., B.A., A.M.I.C.E. Prof.
O'Connor, H. G., M.E., A.M.I.C.E.I. Asst.

Engineering, Electrical
Griffith, W. G., B.Sc. Lond., A.M.I.E.E., M.I.C.E.I. Prof.

English Language and Lit.
Byrne, W. A., M.A. Prof.

Geology and Mineralogy
Mitchell, J., B.Sc., B.E. Prof.

German
Cooke, Miss M. M., M.A. Prof.

History (Special Reference to Irish H.) [Prof.
Donovan O'Sullivan, Mrs., M.A.

Irish Lang., Philol., and Lit.
O'Maille, T., M.A. Manc., Ph.D. Frei. Prof.

Irish, Modern
Mac Enri, S. P., M.A., M.D. Lectr.

Law and Jurisprudence
Arkins, P. A., B.A., LL.B. Prof.

Mathematics
Power, M., M.A., B.Sc. Prof.
Mitchell, J., B.Sc., B.E. Asst.

Medicine and Surgery
Colahan, N. W., M.D., M.Ch. (Fevers, Materia M., etc.) Prof.
Mahon, R. B., M.D., M.Ch., F.R.C.S.E. (Practice of M.) Prof.
English, Adeline, M.B., B.Ch., B.A.O. (Mental Diseases) Lectr.
Kinkead, R. J., B.A., M.D. Dub. (Obst. and Gynæc.) Prof.
Mac Enri, S. P., M.A., M.D. Dub., B.Ch. (Ophth. and Ot.) Prof.
Walsh, T., M.A., H.Dip.Ed., B.Sc., M.D., D.P.H. (Path.) Prof.
O'Malley, M. C., M.B., F.R.C.S.E. (Practice of S) Prof.

Lectrs. in Med. Jur. & Hygiene: Profs. Kinkead and Walsh.

Assts. in Obst. and Gynæc. and Pharmacy:
Morris, D. V., M.B., M.A.O.
Waters, J. J., M.B.

Natural History
Mangan, J., M.A., F.R.C.Sc.I. Prof.
Clarke, Miss H., M.Sc. Asst.

Philosophy
Howley, J. F. W., M.A. Prof.

Physics
The President Prof.
McHenry, J. J., B.A., M.Sc. Asst.

Physiology
Donegan, J. F., M.B., B.Sc. Prof.

Romance Languages
O'Brien, L., M.A. Prof.

GENERAL INFORMATION (v. also p. 310)

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

LIBRARY: 50,000 vols. LABORATORIES: Physics, Chem., Biol., Physiol., Path., Geol., Engin. MUSEUMS: Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

DEGREE COURSES in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce, and Public Health.

Med. degree students are required to spend 1 yr. at a Metropolitan Hospl. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

FEES. College, £2 (women, £1). Degree courses (approximately): Arts, £26; Science, £30 to £45; Law, £12; Medicine (including 2 years General Hospital fees), £78; Engineering, £46; Commerce, £32. Post-graduate or research course, £5.

SCHOLARSHIPS open to students of the Coll. on graduation: 4 of £40.

RESIDENCE. The cost of board and lodging for a student varies from 26s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

PUBLICATIONS. College *Handbook* and list of licensed lodging-houses, free; Regns. for Degrees and Courses (8d.); Regns. for Scholps. and Diploma in Educn. (2½d.), from O'Gorman and Co., Galway; Univ. Examn. Papers (post free, 1s. 8d.), from Supervisor of Examns., Univ. Coll.

THE YEAR 1924–25. *Degrees*, etc., obtained: B.A., 7 (including women—5); B.Comm., 8 (including women—5); M.A., 1; B.Sc., 1; B.Agr.Sc., 2; M.Sc., 1; LL.B., 1; B.E., 7; M.B., 17 (w.—2); Higher Dip.Ed., 8 (w.—6). *Students*: graduates, 10 (including women—4); undergrads., full-time, 190 (w.—72).

COLLEGE OF SCIENCE FOR IRELAND

[*Now (Feb. 1925) placed under the auspices of University College, Dublin*]

PROFESSORS, LECTURERS, ETC., January 1, 1925

[Associates of the College marked *.]

Agriculture, v. also For., Hort., Vet.
Wilson, J., M.A., B.Sc. Prof.

Agric. Botany
*Gorman, M. J. Lectr.

Agric. Chemistry
Stephenson, G. Lectr.

Agric. Econs., Book-keeping, etc.
*Cole, R. D. Lectr.

Bacteriology
Denham, C. H., B.A., M.B. Lectr.

Botany
Johnson, T., D.Sc., F.L.S., M.R.I.A. Prof.
*O'Connor, P., B.Sc. Demr.

Chemistry
..... Prof.

Chemistry, Organic
O'Farrelly, A., M.A., F.I.C. Lectr.

Chem., Phys. and Metall. [Lectr.
*Leonard, A. G. G., B.Sc., Ph.D.

Engineering, v. also Physics
..... Prof.
*Taylor, J., M.A. Acting Prof.

*Warwick, F. W., B.A., B.E. Demr.
*Cormack, P., F.R.C.Sc.I. Demr.

English and Education
Williams, W. J., M.A. Lectr.

Forestry [Prof.
Henry, A., M.A., F.L.S., M.R.I.A.

Geology [Prof.
Cole, G. A. J., F.R.S., M.R.I.A.
*Levingston, H. G. Demr.

Horticulture
*Sherrard, G. O. Lectr.

Mathematics [Prof.
Orr, W. McF., M.A., D.Sc., F.R.S.
Johnston, J. P., M.A., Sc.D. Lectr.

Physics and Elec. Engineering
Hackett, F. E., M.A., M.Sc., Ph.D. Prof.
*Allen, R. G., B.Sc., A.M.I.E.E. Lectr.
*O'Callaghan, P. Demr.

Veterinary Hygiene
Mason, F. C., M.R.C.V.S. Lectr.

Zoology
..... Prof.
..... Demr.

DEAN—F. E. HACKETT, M.A., M.Sc., Ph.D.

ACTING REGISTRAR—M. QUANE.

GENERAL INFORMATION

The College is housed in new buildings, and the LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, *e.g.* extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop ; examples of types of engines aggregating 700 H.P. Hydraulics

and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elect. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat.Sc. equipment. LIBRARY with 50,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

The Regular COURSES extend over 4 yrs. leading to the *Associateship* of the College in Agric. (4 groups), Applied Chem., Engin., Science Teachers' courses (Tech., Expl. Sc., Nat. Sc., Rural Sc.).

RECOGNITION OF COURSES. *Agriculture.* 3rd and 4th yrs. accepted by the N.U.I. and Dublin Universities as component parts of the approved courses for a degree in Agr. *Mech. and Elec. Engineering*: The 3rd and 4th yrs. accepted by the N.U.I. as part of the approved course adopted by Univ. College, Dublin, for the degree B.E. in these subjects. The Associate Course accepted by Dublin Univ. as counting towards a degree in these subjects. *Chemistry*: Similar recognition by Dublin Univ. to the Associate Course.

The *Fellowship* of the College may be awarded to any Associate of at least 3 yrs.' standing who (1) submits a satisfactory thesis embodying results of original scientific research or investigation or treating critically some branch of Science, or (2) has contributed in a marked degree to the advancement of Science.

Several valuable *Scholarships* are attached to the College, and a number of *Research Studentships* are available.

Short *Summer Courses* are held in the College in Science subjects by the Dept. of Agric. and Tech. Instruction for Ireland.

THE YEAR 1923–24. During the session the College building was again temporarily closed to students, and classes were, in consequence, conducted in buildings belonging to the N.U.I. and Dept. of Agric. and Tech. Instruction.

Students, 232. *Diplomas* of Associateship, 27; Fellowship, 3.

CANADIAN UNIVERSITIES

In *Nova Scotia*: ACADIA, DALHOUSIE, KING'S COLLEGE, ST. FRANCIS XAVIER. In *New Brunswick*: NEW BRUNSWICK, MOUNT ALLISON. In *Quebec*: BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. In *Ontario*: MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN. *Western Provincial Univs.*: MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

GENERAL DESCRIPTION

[Contributed by A. Stanley Mackenzie, Ph.D., D.C.L., President of Dalhousie Univ., President for 1920 of the Conference of Canadian Univs. An account by President Walter C. Murray of the Univ. of Saskatchewan, of "University Development in Canada" is to be found in the Transactions of the Royal Society of Canada, Third Series, 1922, vol. xvi.]

IT is probably not true to say that Canada has evolved a distinctive type of Univ.; and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into groups, determined by the prototype after which each was consciously or unconsciously modelled. In the first group are those which followed closely the Oxford tradition — King's, New Brunswick, Bishop's, Toronto, and some of its federated colleges (University, Trinity, Wycliffe). The Univs. in the second group are those which modelled themselves on Edinburgh, viz. Dalhousie, McGill, Queen's. Laval in Quebec, Laval in Montreal (which has lately changed its name to that of the Univ. of Montreal), and Ottawa have followed closely the forms and tradition of France. The four western provincial Univs. of Manitoba, Saskatchewan, Alberta, and British Columbia, and especially the three last, bear a close resemblance to the State Univs. of the United States. The Univs. which have not been named are perhaps more free from direct imitation of older types.

As the years have gone by, all these institutions, while maintaining individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the course leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School course superimposed on eight years in the common schools. This standard is called Junior matriculation. If a pupil has successfully completed the fourth year of the High School course in the proper subjects, or passes the equivalent Senior matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes

which have a fourth year course give in that year about the same work as is done in the first year of the Univ. course for the Pass degree.

JUNIOR MATRICULATION. Students can satisfy the Entrance requirements of the Univs. either by examination or on certificate from a standard High School or accredited Preparatory School or Collegiate Institute or School. Such certificate is, however, not accepted as such, but considered subject by subject; that is, it must show a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Practically all Univs. require for candidates for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science, or Engineering; but the best schools of Applied Science require in addition to the requirements (1) to (4) of Arts, Advanced Algebra, Advanced Geometry, Trigonometry, Physics, Chemistry, and at least one foreign language.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. At least a year has been added to the length of the course at each Univ. In general the course of study requires 6 years. In Toronto Univ. these must be taken in the Medical School. In some of the other Univs. the 1st year may be taken in any recognized Arts College; in others the first 2 years (which are largely pure science) may be so taken. The grade of scholarship required as preliminary to this 6-year course at all the Schools is that of Senior Matricn., except at Queen's, where it is Junior Matricn., and at Montreal Univ., where it is the B.-ès-A.

There has been a similar advancement going on in the standard of preliminary education required of students seeking admission to the study of Law. At all the Schools the Law course proper extends over 3 years. Dalhousie and Manitoba require 2 years of Arts before admission to this course; the other Law Schools require, in general, the equivalent of one year of Arts.

A year has been added to the standard of preliminary education required of students entering upon the study of Dentistry. It is now the equivalent of the first year of an Arts course. The Toronto School is raising this to 2 years, and this standard may soon become general.

ARTS COURSE. Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other half elective; but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin

(British Columbia requires only one), Philosophy, Mathematics, and Science. In the case of the B.Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the B.A. degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree With Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degrees in Arts and a professional faculty in a year less than the sum of the years required for each.

Length of Session. The Canadian Univs. open about October 1, and close in May or early in June. The average length of the session is 32½ weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the 32½ weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

Consolidation of the Colleges in the Maritime Provinces. During the last two years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax, and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization, and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that

of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of $3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) has moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all examns. and grants degrees. Provided King's raises the sum of $400,000 within two years for the erection of the necessary residential buildings, the Carnegie Corporation will provide $600,000 to be used as an endowment for the payment of an instructional staff for the combined students. There the matter stands at present. Mount Allison College (Methodist) will not come to a decision until the proposed union of the Methodist, Presbyterian, and Congregational bodies in Canada is consummated. The Roman Catholic dioceses outside of that of Antigonish, in which is St. Francis Xavier's College, have the matter under consideration. There is no degree-granting educational institution in the adjoining colony of Newfoundland, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada, and will undoubtedly co-operate.

NINTH CONFERENCE OF CANADIAN UNIVERSITIES, 1923. The subjects discussed were: (*a*) The Relations of the regularly organized Univs. to certain Colleges dealing with extension work and dealing in a more or less formal manner with regular instruction. (*b*) " University Co-operation in Serving Their Combined Constituencies " (paper by President Murray of Univ. of Sask.). (*c*) " University Maintenance " (President Tory of Alberta). (*d*) " Sectionalism in Universities " (Dean Laing of McGill). (*e*) " Graduate Work in Canada " (Dean Adams of McGill). (*f*) " Graduate Work in Agriculture " (Principal Harrison of MacDonald College, Univ. of Toronto). (*g*) " Agricultural Research " (Dr. J. H. Grisdale of the Research Dept. in Agr., Ottawa). (*j*) " University Co-operation in Scientific and Industrial Research " (President Mackenzie of Dalhousie). (*k*) " Dental Education in Canada " (Dr. Wallace Seccombe of the Royal College of Dentistry, Toronto). (*l*) " Relation of the Royal Military College to the Universities " (Principal Sir Arthur Currie of McGill). (*m*) " Oriental Students in Canadian Universities " (Committee's Report). (*n*) " Athletics in Canadian Universities " (Dean DeLury of Toronto). (*o*) " Engineering Education " (Prof. Clarke of Queen's). (*p*) " Medical Education " (Dean Prowse of Manitoba).

Officers for 1923–24: President—Principal Bruce Taylor, Queen's. Secretary Treasurer—Dr. G. H. Ling, Saskatchewan.

The Conference planned to be held at Toronto in 1924 at the time of the British Assocn. meeting there was postponed until 1925, when it will probably meet in Halifax.

Degrees in Divinity for Students belonging to the Anglican Church in Canada

The Church Universities and Theological Colleges in Canada having entered into an agreement to adopt a uniform standard for degrees in Divinity, all such degrees are now only conferred in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C.

In the case of a College within the "Province of Canada" (a group of dioceses in Eastern Canada) which has not the power to confer degrees the Metropolitan, or a representative of the College acting for him, confers the degrees. [*Contributed by the Bishop of Ottawa.*]

Nova Scotia Technical College, Halifax

This institution represents the principal effort of the province in University training. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform matriculation and a uniform engineering course covering the general work of the freshman and sophomore years is carried out entirely in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, and St. Mary's College. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last 2 of the 4 yrs.' course. Here the studies are differentiated and the student elects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.Sc. The Technical Coll. confines its attention entirely to the work of the junr. and senr. yrs. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research. Tuition fees: $75 p.a. The buildings and equipment represent a provincial investment of about $500,000. [*Contributed by the Department of Technical Educn., N.S.*]

A School of Fisheries, established at Halifax by the Biological Board of Canada, co-operates with the Technical College and with the Univ. of Dalhousie. It has a station at St. Andrews, N.B.

The Carnegie Foundation for the Advancement of Teaching

The object of the Foundation, which was established in 1906 with resources which now amount to 28 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." It operates both in the U.S.A. and in Canada. The following classes of persons are eligible for retiring allowances: (1) A person in an institution on the associated list who (*a*) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (*b*) has served 25 years as prof. or 30 years as

instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife of any teacher of class (*a*) or (*b*). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents. The offices of the Foundation are at 522 Fifth Avenue, New York City.

The list of associated institutions includes BRITISH COLUMBIA, DALHOUSIE, McGILL, QUEEN'S, and TORONTO. Up to June 1923, 1083 allowances had been granted, including 55 in Canada and 3 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their free distribution. The Annual Reports include discussions of various questions connected with teaching institutions. Separate bulletins have been published on Financial Reports of Colleges, Univs., and Tech. Schools; Medical, Engineering, Legal, and other vocational education; the Training of Teachers; Teachers' Pensions; Higher Education in the *Maritime Provinces of Canada.*

In Oct. and Nov. 1922 two experts commissioned by the Foundation—Dr. Learned of its own staff and President Sills of Bowdoin College—visited the maritime provinces of eastern Canada with the view of suggesting a constructive policy in regard to the universities which had applied to it for aid, v. *supra* —CONSOLIDATION.

NATIONAL COUNCIL OF EDUCATION

THE NATIONAL COUNCIL OF EDUCATION, Canada, was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the co-operation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial departments of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa*. Triennial Conferences on Education are held, the next of which will be in Montreal in 1926. The Executive Secretary's address is 607 Boyd Building, Winnipeg; the Educational Secretary's, 8 Queen's Park, Toronto.

CANADIAN STUDENTS IN THE UNIVERSITIES OF THE UNITED KINGDOM, v. Appendix XXII.

SCIENTIFIC AND INDUSTRIAL RESEARCH, v. Appendix XXIV.

ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

PRESIDENT—F. W. PATTERSON, D.D., LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—J. W. MANNING, D.D.

REGISTRAR—Prof. A. B. BALCOM, B.Sc., M.A.

BURSAR—CLARA CHISHOLM.

LIBRARIAN—MARY K. INGRAHAM, M.A.

PROFESSORS, LECTURERS, ETC., November 1924

Biology [C. F. Myers Prof.
Perry, H. G., M.A. Harv.

Chemistry
Hill, D. U., M.A., Ph.D. Yale Prof.
Oxner, Miss B., B.A. Sask. Instr.

Classics
Thompson, W. H., jun., M.A., Ph.D. Yale Barss Prof.

Economic Science [Prof.
Balcom, A. B., B.Sc., M.A. Harv.

Education & Psychology [Instr.
Young, P. C., M.A., Ph.D. Harv.

Engineering [I. Curry Prof.
Wheelock, F. E., M.A., Ph.D. Yale
Sutherland, A., B.Sc. Prof.

English Lang. and Lit.
Rhodenizer, V. B., M.A., Ph.D. Harv. Prof.
Logan, J. D., Ph.D. Harv. Spl. Lectr. in Canadian Lit.

Geology
Bancroft, M. F., M.A. Yale Prof.

German
Ross, Roy, M.A. Yale Prof.

History
Rogers, N. M'L., B.A., B.Litt., B.C.L. (Ox.) M. Curry Prof.

Library Science [Instr.
Ingraham, Mary Kinley, M.A.

Mathematics [White Prof.
Jeffery, R. L., M.A. Cornell

New Test. Lang. and Lit.
De Wolfe, H. T., B.A., D.D. Prof.

Old Test. Lang. and Lit.
Hutchins, W. N., M.A., Ph.D. Chic. G. P. Payzant Prof.

Osteology and Physiology
De Witt, C. E. A., B.A., M.D. McGill Instr.

Physical Training [Director.
Osborne, W. T., M.A. Corn.

Physics [Alumni Prof.
Haley, F. R., M.A. Harv.
Wheelock, F. E., B.A., Ph.D. Yale I. Curry Prof.

Romance Languages
Rogers, Paul, M.A. Prof.

Theology and Philosophy [Prof.
Spidle, S., B.D., Ph.D. Clark
MacDonald, J. H., C.B.E., D.D. Prof. of Church Hist. and Bible Lit.

GENERAL INFORMATION (v. also p. 322).

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a University. In 1896 an endowment of $100,000 for the Theol. Dept. was received under the will of G. P. Payzant. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

LIBRARY: 45,000 vols. MUSEUMS: Biol., Ethnol., Geol., Hist. LABORATORIES: Biol., Chem., Geol., Physics, Engineering. OBSERVATORY: Meteor. and Astron.

DEPARTMENTS. Arts and Sciences, Theology, Applied Science, Music.

DEGREE COURSES. 4 yrs.—B.A., B.A. (Theol.), B.Sc.; 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A., B.D. The B.Sc. Engineering courses enable graduates to enter the 3rd year classes of McGill Univ. and N.S. Tech. Coll. Some of the B.A. and B.Sc. courses enable graduates to enter the 2nd yr. of the Dalhousie Law School, Halifax, and the Med. Dept. of McGill Univ. respectively (v. pp. 326, 360).

FEES for tuition: in Arts and Sc. or Theol., $306; in Appl. Sc. (2 yrs.), $220. Lab. fees extra, about $30.

RESIDENCE. College hostels provide accommodation for 70 men and 65 women.

AFFILIATION, v. p. 360.

PUBLICATIONS. *Bulletin*, 25 cents p.a.; *Calendar*, number issued in July.

THE YEAR 1923–24

HONORARY DEGREES CONFERRED. *D.D.*—E. E. Daley, C. R. Freeman, W. V. Higgins, N. A. MacNeill. *LL.D.*—Eva D'Prazer, J. H. King, A. L. McCrimmon, C. H. McIntyre. *D.Litt.*—R. W. Norwood.

OTHER DEGREES. M.A., 5; B.A., 41; B.A. (Theol.), 1; B.Sc., 9. Students, preparing for B.A., 187; B.Sc., 40; Theological, 43; Applied Sc., 26; Special, 17; graduates, 7. Total, 320.

UNIVERSITY OF ALBERTA, EDMONTON

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE.

CHANCELLOR—Hon. CHARLES ALLAN STUART, B.A., LL.D. Tor.

CHAIRMAN OF BOARD OF GOVERNORS—Hon. H. HARVEY, M.A., LL.B. LL.D., Chief Justice.

PRESIDENT—HENRY MARSHALL TORY, M.A., D.Sc., LL.D. McG.

REGISTRAR—C. E. RACE, M.A., C.A., A.C.I.S.

LIBRARIAN—D. E. CAMERON, M.A. Edin.

PROFESSORS, LECTURERS, ETC., August 18, 1924

Accountancy [Lectr.
Race, C. E., B.A. Tor., M.A., C.A.

Agricultural Engineering [Prof.
Smith, J. MacG., B.S.A. Man.

Agriculture : Field Husbandry
Cutler, G. H., B.S.A. Tor. Prof.
Newton, R., B.S.A. Tor., Ph.D. Minn. Prof.
Fryer, J. R., M.A. Tor. Asst. Prof.

Agriculture, History of
Howes, E. A., B.S.A. Tor. Dean of Fac. of Agric.

Agriculture : Horticulture
Harcourt, C., B.S.A. Tor. Lectr.

Agriculture : Soils
Wyatt, F. A., B.S.A. Utah, M.S., Ph.D. Ill. Prof.
Newton, J. D., B.S.A. McG., Ph.D. Calif. Asst. Prof.

Animal Husbandry, v. also Dairying and Vet.
Sackville, J. P., B.S.A. Tor. Prof.
Bowstead, J. E., M.S.A. Wisc. Asst. Prof.
Sinclair, R. D., B.S.A. Asst. Prof.

Anatomy. [Prof.
Revell, D. G., B.A., M.B. Tor.
Shaner, R. F., Ph.D. Harv. Assoc. Prof.
Greene, E., M.D., C.M. McG. Lectr.
Jackson, J. L., M.A., M.D.C.M. McG. Lectr.
6 Demrs.

Architecture
Burgess, C. S., A.R.I.B.A. Prof.

Bacteriology, v. Med.

Bio-Chemistry
Collip, J. B., M.A., Ph.D. Tor., D.Sc Prof.
Scott, J. W., M.D. McG. Lectr.

Botany [Prof.
Lewis, F. J., D.Sc. Liv., F.L.S.
Moss, E. H., M.A. Tor. Lectr.
Dowding, E. S., M.Sc. Instr.

Chemistry
Lehmann, A. L. F., B.S.A. Tor., Ph.D. Leip. Prof.
Walker, O. J., B.A. Sask., M.A. Harv., Ph.D. McG. Assoc. Prof.
Bridgeman, O. C., M.A. Sask. Asst. Prof.
Oddy, H. G., M.A. McM., Ph.D. Tor. Instr.
9 Demrs.

Classics
Alexander, W. H., M.A. Tor., Ph.D. Calif. Prof.

Misener, Geneva, M.A. Qu., Ph.D. Chic. Assoc. Prof.
Hardy, W. G., M.A. Tor., Ph.D. Chic. Asst. Prof.
Laycock, S. R., B.A. Tor., M.A., B.D., B.Educ. Lectr.

Dairying
Marker, C. P., LL.D. Prof.

Dentistry [Lectr. (Op. D.).
Bulyea, H. E., D.M.D. Harv.
Gilchrist, H. A., D.D.S. Northwn. Instr. (Prosth. D.).

Drawing & Descr. Geom.
Adam, J., M.A. Assoc. Prof.

Economics, v. Pol. Econ.

Engineering, Civil & Municipal
Wilson, R. S. L., B.Sc. McG. Prof.
Robb, C. A., B.Sc. McG., M.S. Mass. Inst. Tech. Prof.
Morrison, I. F., S.B. M.I.T. Prof.
Webb, H. R., M.Sc. Lectr.

Engineering, Electrical
MacLeod, H. J., B.Sc. McG., Ph.D. Harv., M.Sc. Assoc. Prof.
Morgan, S. C., B.Sc. Qu., M.Sc. Lectr.

English
Broadus, E. K., M.A. Chic., Ph.D. Harv. Prof.
Gordon, R. K., B.A. Ox., M.A., Ph.D. Tor. Prof.
Salter, F. M., B.A. Dal., A.M. Chic. Lectr.
Jones, J. T., B.A. Instr.

Entomology [Prof.
Strickland, E. H., M.Sc. Harv.

French and Ger., v. Mod. Langs.

Geology
Allan, J. A., M.Sc. McG., Ph.D. Mass. Inst. Tech. Prof.
Warren, P. S., B.A. Tor., A.R.C.S. Lond. Lectr.
Rutherford, R. L., M.Sc., Ph.D. Wisc. Lectr.
1 Demr.

History [Prof.
Burt, A. L., B.A. Tor., M.A. Ox.
Long, M. H., B.A. Ox. Assoc. Prof.

Household Economics
Patrick, Mabel, B.A. Tor., M.A. Col. Director, Lectr.
Deadman, Edith, B.A. Tor Lectr.

Law
Weir, J. A., B.A. Ox., LL.B. Sask. Prof. (Sec. to Faculty).
Kleven, V. E., LL.B. Sask., B.C.L. Ox. Prof.
Ford, F., D.C.L. Tor., K.C. Hon. Prof.
Parlee, H. H., B.A. Mt.A., B.C.L. Dal., K.C. Hon. Prof.
2 Sessional Lectrs., 1 Instr.

Mathematics
Sheldon, E. W., M.A. McG., Ph.D. Yale Prof.
Campbell, J. W., M.A. Qu., Ph.D. Chic. Prof.
Cook, A. J., B.Sc., M.A. Harv. Lectr.
Young, F. G., B.A. Instr.

Medicine, v. *infra*

Mining Engineering,
Pitcher, N. C., B.Sc. McG. Prof.
Cameron, A. E., M.Sc. McG. Assoc. Prof.

Modern Languages
Kerr, W. A. R., M.A. Tor., Ph.D. Harv. Prof. and Dean of Fac. (Arts and Sc.).
Coar, J. F., M.A., Ph.D. Harv. Prof. (German).
Sonet, E., B ès L. Lyons, M.A. Assoc. Prof. (French).
Pelluet, A. P. Asst. Prof. (French).
Owen, F., M.A. Tor. Asst. Prof (Ger.).
de Savoye, H., B.ès L. Paris, LL.B. Lectr. (French).

Philosophy
MacEachran, J. M., M.A. Qu., Ph.D. Leip. Prof.

MacDonald, J., M.A., D.Litt. Edin. Asst. Prof.
MacPhee, E. D., M.A., Ed.B. Edin. Asst. Prof.

Physics
Boyle, R. W., M.A., Ph.D. McG. Prof. and Dean of Fac. (App. Sc.).
Smith, S., M.A., B.Sc. Ox. Assoc. Prof.
Lang, R. J., B.A. McM., Ph.D. Tor. Lectr.
Nichols, L. H., B.A. McG. Lectr.
2 Demrs.

Physiology and Pharmacology
Downs, A. W., M.A. Phila., M.D. Penns., D.Sc. McG. Prof.
Eddy, N. B., M.D. Corn. Asst. Prof.
Bell, I. R., B.A., M.B. Tor. Lectr.
1 Demr.

Political Economy
MacGibbon, D. A., M.A. McM., Ph.D. Chic. Prof.
McGoun, A. F., B.A., B.C.L. McG., M.A. Harv. Asst. Prof.
Patton, H. S., B.A. Tor., M.A. Harv. Lectr.

Veterinary Science
Talbot, P. R., V.S. Tor., M.D.V. Chic. Specl. Lectr.

Zoology [Assoc. Prof.
Rowan, W., M.Sc. Lond., F.Z.S.
Harkness, W. J. K., B.A. Tor. Instr.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology and Hygiene
Rankin, A. C., C.M.G., M.D., C.M., D.P.H. McG., L.R.C.P., M.R.C.S. Prof. and Dean of Fac.
Shaw, R. M., B.A., M.D., C.M., D.P.H. McG. Asst. Prof.

Dermatology [Lectr.
Orr, H., O.B.E., M.B., D.P.H. Tor.

Gynæcology and Obstetrics
Conn, L. C., M.D., C.M. Mc.G. Prof.
Harrison, J. D., M.A. N.B., M.D., C.M. McG. Assoc. Prof.
Baker, J. O., M.D., C.M. Qu. Lectr.
Holmes, G. U., M.B. Tor. Instr.

Medicine and Clinical Medicine
Pope, E. L., B.A. Qu., M.D., C.M. McG., M.R.C.S., M R.C.P. Prof.
Jamieson, H. C., M.B. Tor. Assoc. Prof.
Logie, H. B., B.A., M.D., C.M. McG. Asst. Prof.
Hurlburt, C. W., M.B. Tor. Lectr.
1 Instr.

Ophthalmology
Wells, R. B., M.B. Tor. Lectr.
Jamieson, C. V., M.B. Tor. Lectr.

Pathology
Ower, J. J., B.A., M.D., C.M. McG., Prof., and Provincial Serologist.
Vango, H. M., M.D., C.M. McG. Lectr.
2 Demrs.

Pediatrics [Lectr.
Leitch, D. B., B.A., M.B. Tor.

Pharmacology, v. Physiol

Pharmacy and Mat. Med. [Prof.
Dunn, F. A. S., Ph.C. Tor., M.P.S. Gr. Bn. Acting Dir. of Sch. of Phm.
Matthews, A. W., B.Sc. Phm. Lectr.

Public Health [Assoc. Prof.
Laidlaw, W. C., M.B. Tor.

Surgery and Clinical Surgery
Mewburn, F. H., M.D., C.M., LL.D. McG. Prof.
Gray, G. C., M.B. Tor. Asst. Prof.
Munroe, A. R., M.D., C.M. McG. Asst. Prof.
Wilson, W. A., M.D., C.M. McG. Asst. Prof.

Blais, A., M.D. Tor. Asst. Prof.
Hepburn, H. H., M.D., C.M. McG. Asst. Prof.
Mewburn, F. H. H., B.Sc., M.D. C.M. McG. Lectr. (*Orthop.*).
Smith, E. C., M.D., C.M. McG. Lectr.
6 Instrs.

Industrial Laboratories

Kelso, J. A., M.Sc. Qu. Director.
Scroggie, A. G., B.Sc. Asst.

Industrial Research Profs.

Stansfield, E., M.Sc. Manc. (Fuels.).
Clark, K. A., M.A. McM., Ph.D. Ill. (Road Materials.).

Physical Education

McLeod, H. J. Acting Director.
Bakewell, E., B.A. Asst. Dir.

Correspondence Courses

MacKenzie, D. S. Director.

Department of Extension

Ottewell, A. E., M.A. Director.
Corbett, E. A., M.A. McG. Secy.
Montgomery, Jessie, B.A. Libn.

AFFILIATED COLLEGES

(1) ALBERTA THEOLOGICAL COLLEGE (Methodist), Edmonton. Chairman of Board of Governors, H. B. Smith, M.D.; Secy., C. E. Race, B.A., C.A. Principal—A. S. Tuttle, M.A., D.D. Mt. All., Prof. of Philos. of Religion. Other Profs.: A. D. Miller, M.A. Tor., B.D. Vict., Hebrew, etc.; Clyo Jackson, M.A. Tor., B.D. Vict., New Test. Lit. Five Lectrs. Situated on Univ. grounds; quarters for 125 students.

(2) ROBERTSON THEOLOGICAL COLLEGE (Presbyterian), Edmonton. Chairman of Board of Management—W. Short, K.C. Principal—J. M. Millar, M.A., B.D., D.D., Prof. of Engl. Bible, etc. Head of Extra-mural Dept. and Lectr.—A. T. Barnard, M.A., B.D.

(3) ST. AIDAN'S COLLEGE and Hostel (C. of E.), Edmonton—affiliated, 1919. Warden—Rt. Rev. Bishop Gray.

(1) and (2) co-operate, Profs. of both instructing joint classes.

GENERAL INFORMATION (v. also p. 322)

Telegraphic address—VERA (A.B.C. Code).

The University, created by act of the Provincial Legislature, 1906, originally consisted of a Chancellor, Vice-Chancellor, Senate, and Convocation. By amendment the office of President was created 1907, and a Board of Governors 1910, the latter being given financial and administrative control, while the Senate was restricted to educational supervision. Student residences, Athabasca, Assiniboia, and Pembina Halls, were opened in 1911, 1912, and 1914 respectively, while the main teaching and administrative building was completed in 1915. Classes began September 1908. In 1912 extension work, conducted from the beginning, was departmentalized under a Secretary. In the same year a Faculty of Law was created. Subsequent expansion involved the establishment of Faculties of Applied Science and of Medicine, 1913; Faculty of Agriculture, 1915; courses in Pharmacy and in Dentistry, 1914 and 1917 respectively; in Household Economics, 1918; in Commerce and in Public Health Nursing, 1921. In 1919–20 the extraordinary increase in the number of medical students necessitated the construction of a new Medical

Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Department under the Faculty of Medicine to an independent unit. The Provincial Legislature has established a close relationship between the Univ. and the Professions, and the Senate now has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The University grounds, 637 acres, beautifully situated on the wooded south bank of the Saskatchewan, include provision for the accommodation of affiliated colleges and afford ample room for expansion. Edmonton is a city of about 60,000 inhabitants, the capital of the Province of Alberta (area 250,000 sq. m.; pop. 600,000). The chief activities of the city are wholesaling, coal-mining, and meat-packing, while the main interests of the Province are agriculture and coal-mining. For 2000 miles to the north of Edmonton, and naturally tributary to it, lie the valleys of the Athabasca, the Peace, and the Mackenzie Rivers. The fur trade is still the chief activity of this vast region, though on the Peace River a rapid agricultural growth is in progress, and its great resources in coal, oil, water-power, natural gas, lumber, asphalt, etc., await development.

LIBRARY, 26,500 vols. LABORATORIES for all scientific courses; museum; herbarium; farm; agricultural experimental plots.

FACULTIES. Arts and Sciences (including Household Economics, Pharmacy and Commerce); Applied Science (including Architecture); Medicine (including Dentistry and Nursing); Law; Agriculture.

MATRICULATION examns. are conducted in April, June, and Sept., under control of High Schoo and Univ. Matricn. Examns. Board of the Province. Equivalent examns. by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

DEGREE COURSES. 4 yrs.—B.A., B.Sc. in Arts, B.Com., B.Sc. in Household Ec., in Engin. (Civ., Elec., or Mining), in Archit., or in Pharmacy, LL.B., D.D.S. (first 2 yrs. provided here, after which students are admitted to McG., or Tor. without further examn. for completion of course); 3 yrs. (after qualifying in a Provincial Sch. of Agr.)—B.H.Ec. (in Household Econ.), B.Sc. in Agric.; 6 yrs.—M.D.; 5 yrs.—B.Sc. in Nursing. Combined B.A. and B.Sc. in Arts—6 yrs.; B.A. and B.Sc. in Applied Sc.—6 yrs.; B.A. and M.D.—8 yrs.; B.A. and LL.B.—6 yrs. (v. also pp. 103, 274, 360). The Agric. course is preceded by preliminary training at one of the Provincial Agric. Schools.

A Bachelor may obtain the M.A. or M.Sc. by 1 yr. of advanced study or investigation or the B.Ed. by 2 yrs. of advanced study. The B.D. is open to B.A. students of affiliated Colls. on completion of approved courses. The LL.D. is honorary.

OTHER COURSES: For Licence in Pharmacy; Correspondence Courses for Teachers (Senr. Matricn. subjects); Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn.; 3 mos.' course in P.H. Nursing for Registered nurses; Provincial Dairy School short courses; 3 yrs.' course for qualification of Regd. Nurse.

A system of EXCHANGE LECTURES is carried on in co-operation with Manit. and Sask.

FEES, tuition per session: Arts (including 4 yrs.' degree courses in Pharm., Com. and Household Econ.), $50; Appl. Sc., $85 to $100; Law, $60; Med.

and Dent., $150 (1st yr., $110); Acctcy, $25 and $50; Agric. (including 3 yrs.' course in Household Econ.), $40. Students' Union, $7; Med. Service, $3.

RESIDENCE, ETC. 4 Halls of residence (including 1 belonging to an affiliated Coll.), with accommodation for 525. Fees for room and board for the session, $280; board only, $28 per month. Social life is under supervision of Provost, a Univ. officer. All undergraduates are members of Students' Union.

UNIVERSITY EXTENSION work includes lectures at local centres, travelling and packet libraries, and lantern slide and cinema services.

PUBLICATIONS. *Calendar* (June); *Press Bulletin*, weekly, by Dept. of Extension; *The Trail*, quarterly, by Alumni Assocn.; *The Gateway*, weekly, *The Green and Gold*, annually, by students.

THE YEAR 1923–24

BENEFACTIONS. The Coté Prize (books) and the Wells Prizes (two of $25 each), both in French; Bursary of 7000 francs, gift of the French Government for study in France; Wilfred Wees Prize (Philosophy); Mrs. de Forrest, collection of New Zealand ferns; France-Canada Committee, books illustrative of contemporary French culture; Rockefeller Foundation, $500,000 towards endowment of Medical Faculty; J. D. Rockefeller, Jr., $5000 to make insulin treatment available to indigent patients in the Univ. Hospital; Carnegie Corporation, $10,000 in aid of Prof. Collip's investigations in connexion with insulin.

OTHER DEVELOPMENTS. Completion of organization of School of Nursing: Three-year course leading to qualification for R.N. and five-year course leading to B.Sc. in Nursing and qualifications for R.N.

EXTENSION WORK. Lantern slides sent out, 1481; films, 331 series; lectures, 316; travelling libraries, 234; university week for Farm Young People.

HONORARY DEGREES. *LL.D.*—D. L. Scott, C.J.; C. P. Marker. *M.A.*—V. W. Barford.

OTHER DEGREES. B.A., 69 (including women—29); LL.B., 32 (w.—4); B.Sc. in Arts, 6 (w.—3); in Phm., 3; in H.Ec., 8 (w.); in App. Sci., 13; in Agric., 19; B.Com., 7 (w.—2); M.A., 18 (w.—4); M.Sc., 4 (w.—1); B.D., 1; D.Sc., 1; Dip.Phm., 16 (w.—2).

STUDENTS. Total, 1341 (including 417 women); Arts and Sci., 738; App. Sci., 117; Med. and Dent., 202; Law, 109; Agr., 158; Phm., 46; Correspondence students, 94; Summer School, 94; B.D., 3; School of Nursing, 17.

UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

CHANCELLOR—JOHN HAMILTON, M.A., D.C.L.

VICE-CHANCELLOR—Rev. A. H. McGREER, O.B.E., M.A. Tor., B.A. Ox., D.D., Principal of the College and Dean of Arts.

REGISTRAR—Capt. J. C. STEWART, Bursar and Secy. of the College.

PROFESSORS AND LECTURERS, November 17, 1924

Smith, Rocksborough R., M A Camb., B A. Lond , Harold Prof of Divinity, Dean of Divinity.

Boothroyd, E. E., M.A. Camb., Prof. of History and English Literature.

Burt, H. C., M.A., T.C. Tor., Prof. of Philos. and Econ., Lectr. in Church Hist.

Call, F. O., M.A., Prof. of Mod. Langs., and Librarian.

Hatcher, A. G., M.A. McGill, Prof. of Natural Science.

Little, A. M. G., B.A. Camb , Lectr. in Classics

Richardson, A. V., M.A. Camb., Prof. of Maths.

Vial, F. G., M.A., B.D., Warden of the Divinity House, Mountain Prof. of Past. Theol.

GENERAL INFORMATION (v. also pp. 322, 326)

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College.

The College provides ordinary and Honours courses for the B.A. degree, covering 3 yrs., and a 2 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Terms kept in other Univs. may be counted up to 2 yrs. Clergymen of the Dioceses of Quebec and Montreal may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4 or 2 yrs.' standing.

Examns. are conducted for degrees in Music.

FEES. For tuition, $100 p.a.; board and furnished lodging with heating and lighting, $300 p.a.

THE YEAR 1923–24. *Number of Students*: Divinity, 16; Arts, 84 (including 31 women). *Degrees conferred*: B.A., 20; M.A., 3; Mus.Bac., 3; L.S.T., 6. Hon. D.C.L.—Gen. Sir Richard E. W. Turner, V.C.; Canon A. P. Shatford; R. V. Harris.

THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.
CHANCELLOR—R. E. MCKECHNIE, M.D., C.M., F A C.S., LL.D.
PRESIDENT—LEONARD S. KLINCK, B.S.A. Tor., M.S.A., D.Sc. Iowa S.C.
REGISTRAR—S. W. MATHEWS, M.A. Qu.
LIBRARIAN—J. RIDINGTON.

PROFESSORS, LECTURERS, ETC., November 3, 1924

Agriculture, v. *infra*

Bacteriology [Spl. Lectr.
McKee, C. S., M.B. Tor.
Wilson, Freda L., M.A. Instr.
2 Assts.

Botany
Hutchinson, A. H., M.A. McM., Ph.D. Chic. Prof.*
Davidson, J., F.L.S. Asst. Prof.
Dickson, Frank, B.A. Qu. Asst. Prof.
3 Assts.

Chemistry
Archibald, E. H., B.Sc. Dal., A.M., Ph.D. Harv. Prof.*
Clark, R. H., M.A. Tor., Ph.D. Leip. Prof. (Organic C.).
Seyer, W. F., B.A., M.Sc. Alb., Ph.D. McG. Assoc. Prof.
Marshall, M. J., M.Sc. McG., Ph.D. Mass. Inst. Tech. Asst. Prof.
Allardyce, J., M.A. Instr.
Wright, C. A. H., Ph.D. McG., B.A., M.Sc. Lectr.
5 Assts.

Classics [Prof.*
Robertson, L. F., M.A. McG.
Todd, O. J., Ph.D. Harv. Prof. of Greek.
Logan, H. T., B.A. McG., M.A. Ox. Assoc. Prof.

Dairying, v. Agric.

Economics, Sociology, & Polit. Sc.
Boggs, T. H., B.A. Ac., M.A., Ph.D. Yale Prof.*
Angus, H. F., B.A. McG., B.C.L., M.A. Ox. Assoc. Prof.
Beckett, S. E., M.A. Qu. Asst. Prof.
Sinclair, H. M., M.A. Edin. Instr. (Econ.).
1 Asst.

Education, v. Philos.

Engineering, Civil, & Surveying
Duckering, W. E., A.B., B.S. in C.E., C.E. Wash. Prof.*
Matheson, E. G., B.A.Sc. McG., M.E.I.C., M.Am.S.C.E. Assoc. Prof.
Powell, W. H., B.Sc. McG. Lectr.
Lighthall, A., B.Sc. McG. Instr.
Wilkin, F. A., B.A.Sc. McG. Instr.
1 Asst.

Engineering, Mech. & Elec.
Vickers, H., M.E. Liverpool, M.Sc., Ph.D. Birm. Acting* Prof.
Letson, H. F. G., B.Sc., Ph.D. (Eng.) Lond. Asst. Prof.
Archibald, H. P., B.A.Sc. McG. Instr.
Coles, E. M., B.A.Sc. Instr.
9 Assts.

* Head of Department.

English

Sedgewick, G. G., B.A. Dal., Ph.D. Harv. Prof.*
MacDonald, W. L., B.A. Tor., M.A. Wisc , Ph.D. Harv. Assoc. Prof.
Wood, F. G. C., B.A. McG., A.M. Harv. Assoc. Prof.
Larsen, Thorleif, M.A. Tor., B.A. Ox. Asst. Prof.
Walker, F. C., B.A. U.N.B., Ph.D. Harv. Asst. Prof.
Bollert, Miss M. L., M.A. Tor., A.M. Col.‡ Asst. Prof.
4 Assts.

Forestry [Prof.*
Christie, H. R., B.Sc.F. Tor.
Knapp, F. M., B.S.F. Syracuse, M.S.F. Wash. Asst. Prof.

French, v. Mod. Langs.

Geology and Geography

Brock, R. W., M.A., LL.D. Qu., F.G.S.† Prof.*
Schofield, S. J., B.Sc. Qu., Ph.D. Mass. Inst. Tech. Prof.
Uglow, W. L., M.A. Qu., B.Sc. Sch. Mi. Kingston, M.S., Ph.D. Wisc. Prof. of Mineralogy, etc.
Williams, M. Y., B.Sc. Qu., Ph.D. Yale Prof. of Palæont.
Burwash, E. M., B.A. Tor., M.A., B.D. Vict., Ph.D. Tor. and Chic. Lectr.

History [Prof.*
Eastman, M., B.A. Tor., Ph.D. Col.
Sage, W. N., B.A. Tor., M.A. Ox. Assoc. Prof.
Soward, F. H., B.A. Tor., B.Litt. Ox. Instr.
1 Asst.

Horticulture, v. Agr.

Mathematics

Buchanan, D., M.A. McM., Ph.D. Chic. Prof.*
Dederick, L. S., A.B. Kenyon, A.M., Ph.D. Harv. Prof.
Robinson, G. E., B.A. Dal. Assoc. Prof.
Richardson, L., B.Sc.Lond. Asst. Prof.
Jordan, E. E., M.A. Dal. Asst. Prof.
Hartley, B. S., M.A. Camb. Asst. Prof.
3 Assts.

Mining and Metallurgy

Turnbull, J. M., B.A.Sc. McG. Prof.*
Thomson, H. N., B.Sc. McG. Prof. of Met.
Gillies, G. A., M.Sc. McG. Assoc. Prof. of Mi.

Modern Languages

Ashton, H., M.A. Camb., D.Lett. Univ. Paris, D.Litt. Birm , O.I.P. Prof. of French.*
Clark, A. F. B., B.A. Tor., Ph.D. Harv. Assoc. Prof. (French).
MacInnes, Isabel, M.A. Qu. Asst. Prof.
Chodat, H., M.A. McG. and Harv. Asst. Prof. (French).
Ross, Margaret Instr. (French).
Greig, Janet, B.A. Qu. Instr. (French).
3 Assts in French.

Nursing

Johns, Miss E. I., R.N. Asst. Prof.
Cumming, Alison, B.A. Dal., M.D., C.M. McG. Lectr.
Hodgins, Lyall, M.B. Tor. Lectr.

Philosophy

Coleman, H. T. J., B.A. Tor., Ph.D. Col.† Prof.*
Henderson, J., M.A. Glas. Assoc. Prof.
Weir, G. W., B.A. McG., M.A. Sask., D.Pæd. Queen's Prof. of *Education*.

* Head of Department. † Dean of Faculty. ‡ Dean of Women.

MacRae, O. M., B.A. Dal., Ph.D. Leip. and Jena Spl. Lectr.

Physics

Hebb, T. C., M.A., B.Sc. Dal., Ph.D. Chic. Prof.*

Davidson, J. G., B.A. Tor., Ph.D. Calif. Assoc. Prof.

Hennings, A. E., M.A. Lake Forest Coll., Ill., Ph.D. Chic. Assoc. Prof.

Public Health [Prof.

Mullin, R. H., B.A., M.D. Tor.

Zoology

Fraser, C. McL., M.A. Tor., Ph.D. Iowa Prof.*

Spencer, G. J., B.S.A. Tor., M.Sc. Illinois Asst. Prof.

1 Asst.

Agriculture

Agronomy

Boving, P. A., Cand. Phil. and Agr. (Sweden). Prof.*

Moe, G. G., B.S.A., M.Sc. McG. Assoc. Prof.

Laird, D. G., B.S.A. Tor., M.S. Wisc. Asst. Prof.

1 Asst.

Animal Husbandry

King, H. M., B.S.A. Tor. Prof.*

Davis, R. L., B.S.A. Mont., M.S.A. Iowa S.C. Asst. Prof.

1 Asst.

Jervis, J. G., V.S. Ont. Vet. Col., B.V.Sc. Tor. Lectr. in Vet. Sc.

Dairying

Sadler, W., B.S.A., M.Sc. McG., N.D.D. (Reading) Prof.*

Golding, N. S., N.D.D., B.S.A. Tor. Asst. Prof.

Horticulture

Clement, F. M., B.S.A. Tor., M.A. Wisc.† Prof.*

Barss, A. F., A.B. Roch , B.S.Agr. Corn., M S. Oreg. Ag. Coll. Assoc. Prof.

Buck, F. E., B.S.A. McG. Asst. Prof.

1 Asst.

Poultry Husbandry

Lloyd, E. A., B.S.A. Sask. Prof.*

Asmundson, V. S., B.S.A. Sask., M S.A. Corn. Asst. Prof.

1 Asst.

* Head of Department. † Dean of Faculty.

AFFILIATED COLLEGES

Victoria College, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts. Principal—E. B. Paul, M.A. Aberd., Assoc. Prof. of *Classics*. Other Profs.—E. H. Russell, B.A. Qu., Registrar and Assoc. Prof. of *Maths.*; P. H. Elliot, M.Sc. McG., Assoc. Prof. of *Science*; Jeanette A. Cann, B.L. Dal., Asst. Prof. of *Engl.* and *Philos.*; Mme. E. Sanderson-Mongin, Asst. Prof. of *French*.

Westminster Hall, Vancouver (Theological)—W. H. Smith, M.A., Ph.D., D.D., and The Anglican Theological College of British Columbia, Vancouver—Rev. W. H. Vance, M.A., both affiliated in 1922.

Ryerson College, Vancouver (Theological)—Rev. J. G. Brown, M.A., affiliated in 1924.

GENERAL INFORMATION (v. also p. 322)

Telegraphic Address—Ubrico.

An Act of the Provincial Legislature was passed in 1890 establishing a University of British Columbia, but it lapsed in 1891. Vancouver High School was affiliated to McGill for the first year in Arts under the name of Vancouver

College in 1899. In 1902 Victoria High School was similarly affiliated as Victoria College. In 1906 the Royal Institution for the Advancement of Learning of B.C. was incorporated and established, the McGill Univ. Coll. of B.C., taking over, by agreement, the Arts work of Vancouver College (extended in 1908 to include the 3rd yr. in Arts), and adding 2 yrs. of Applied Science. In 1907 Victoria College was incorporated in the Univ. Coll. The connexion with McGill was brought to a close in 1915, when the University of British Columbia, incorporated by an Act of 1908, and endowed with 2,000,000 acres of land, was opened, with provision for a complete course in Arts and 3 yrs. in Applied Science. In 1920 all lands in the Province which had been set aside for higher education reverted to the Provincial Government, but it was arranged that the net proceeds from the sale of lots or lands in an area of 3000 acres at Point Grey should be paid into a " University Endowment Account."

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 nominees of the Lieut.-Govr. in Council. The Senate consists of the Minister of Educn., Chancellor, President (as Chairman), Deans, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, Supt. of Educn., principals of normal schools, one member elected by high school principals and assts., one by Provl. Teachers' Inst., one by each affiliated Coll. or School in the Province, 15 by Convocation.

The University site consists of 540 acres on the headland of Point Grey, 300 feet above the sea. The Science building now under construction will cost $715,000. The LIBRARY has 47,000 vols. and over 10,000 pamphlets, and regularly receives 400 periodicals. LABORATORIES available for all courses. A Forest Products Lab. (with two Olsen Universal Testing Machines of 200,000 and 30,000 lb. capacity respectively and one Hatt-Turner Impact Testing Machine) was established in 1918 by the Forestry branch of the Dept. of the Interior as a permanent branch of the F.P. Labs. of Canada. HERBARIUM, 16,000 sheets native flora, 200 water colours B.C. Fungi. BOTANICAL GARDENS, Arboretum and economic section, 5 acres.

Students are ADMITTED as (1) undergraduates, by Matricn. examn. or its equivalent; (2) conditioned undergraduates, with a view to completing matricn. requirements during first year; (3) partial students. Every student is submitted to a physical examn. on entrance.

DEGREE COURSES. B.A., 4 yrs. (3 from Senior matricn.). B.A.Sc. in Applied Science, 4 yrs. (following 1st yr. in Arts or Senr. matricn.). A degree course in nursing covers 5 yrs., including 2 yrs. of hospl. training. B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.A.Sc., 6 yrs. Courses for the M.A., M.A.Sc., and M.S.A. SHORT COURSES in Mining, 8 weeks, Jan.-March; in Agric. at the Univ. and elsewhere. Evening courses, with summer excursions, in Botany. Summer courses.

SUMMER SESSION. In 1922 the summer school for teachers became the summer session. Teachers and others with full Matricn. standing may pursue Univ. courses and receive credit therefor towards the B.A. degree. As yet courses beyond those of the first two years are not offered.

FEES, inclusive, $75-100 per session. Graduation, $20.

SCHOLARSHIPS FOR GRADUATES. $200 awardable to graduate for further studies; two of $100, one being for Applied Science.

RESIDENCE. Board and lodging in vicinity of the College from $40 to $50 p.m.

UNIVERSITY EXTENSION. Numerous lectures have been given under Univ. auspices in different centres in the province, but adult education has not yet

been given the status of a Department. The selection of speakers and of subjects is made by a Standing Committee on Univ. Extension, which provides series of connected lectures throughout the winter. Short courses of 4 days' duration have been conducted for a number of years with marked success. Present indications are that 3-yr. tutorial classes will not be organized in the Univ. for some time. The *Vancouver Institute* co-ordinates efforts of various organizations in the field of adult education.

PUBLICATION. *Calendar* (April).

THE YEAR 1923–24

NEW BUILDINGS were in process of erection at the Point Grey site, and will probably be ready for occupation by Sept. 1925. The Science Building and Library will be of permanent construction, and will cost $715,000 and $340,000 respectively. Temporary buildings for Administration, Arts, and Science, Applied Science, Horticulture, and the Auditorium and Gymnasium will cost $600,000. Government decided to move the Univ. to Point Grey as soon as the necessary buildings, etc., can be completed.

UNIVERSITY EXTENSION WORK. 174 popular lectures; total estimated attendance, 19,382. *Summer Session*, 1924. Enrolment, 294.

DEGREES. B.A., 99; B.A.Sc., 38 (w.—5, in Nursing); B.S.A., 11; M.A. 9; M.A.Sc., 1; M.S.A., 2.

STUDENTS. Total, 1257 (including women—506). Arts and Sc., 929 (w.—459); App. Sc., 208 (w.—32, in Nursing); Agr., 62 (w.—3). Graduates, Arts and Sc., 40 (w.—12); App. Sc., 7; Agr., 7.

DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—GEORGE S. CAMPBELL, LL.D.

PRESIDENT OF THE UNIVERSITY—A. STANLEY MACKENZIE, Ph.D., D.C.L., LL.D.

REGISTRAR—Prof. M. MACNEILL, M.A.

LIBRARIAN—Prof. A. MACMECHAN.

PROFESSORS, LECTURERS, ETC., November 1, 1924

Accounting, v. Com.

Anatomy

Cameron, J., M.D. Edin., D.Sc. St. And., M.R.C.S. Campbell Prof.

Demrs.:

Curry, W. A., M.D., C.M. McG., F.R.C.S. Eng.

Grant, G. W., M.B. Edin., B.A.

Archæology

Falconer, J. W., M.A. Edin., D.D. Knox. Lectr.

Biblical Literature [Lectr.

Kent, H. A., D.D. Mont., M.A.

Biology

Gowanloch, J. N., B.A., B.Sc. Man. Assoc. Prof.

Bell, H. P., Ph.D. Tor., M.Sc. Assoc. Prof.

Chemistry

McIntosh, D., A.M. Corn., D.Sc. McG. Research Prof. and Head of Dept.

Nickerson, C. B., M.A. Clark Prof.

King, H. S., A.B. Harv. Asst. Prof.

Todd, E. W., B.A. Instr.

McCurdy, Margaret F., B.A. Asst.

Classics

Murray, H., B.A. Lond., LL.D. Tor. McLeod Prof.

Nichols, E. W., Ph.D. Yale Assoc. Prof.

Griffin, A. K., M.A. Tor., B.A. Ox. Assoc. Prof. (K.).

Logan, J. W., M.A. Lectr.

Commerce

Hunt, B. C., B.B.A. Boston Prof.

Wallace, Judge W. B., LL.D. Lectr. (*Comml. Law*).

Dentistry, v. *infra*

Economics and Sociology

Maxwell, W. R., M.A. Harv. Asst. Prof. (K.).

Prince, S. H., Ph.D. Col. Lectr. (K.).

Engineering, Civil

Copp, W. P., B.A. Ac., B.Sc. McG. Prof.

Theakston, H. R., B.Sc. (Mi.) N.S. T.C. Tech. Asst.

English Lang. and Lit.

MacMechan, A., B.A. Tor., Ph.D. J.H.U., LL.D. Tor. Munro Prof.

MacFarlane, W. D., M.A. McG., Ph.D. Gött. Prof. (K.).

(K.) = King's College.

Bennet, C. L., B.A. Camb.
Asst. Prof. (K.).

Geology [Asst. Prof.
McIntosh, D. S., M.Sc. McG., B.A.

History [Assoc. Prof.
Wilson, G. E., M.A. Qu.
Walker, A. S., M.A. Leeds and Birm. Prof. (K.).

Law, v. *infra*

Mathematics
Macneill, M., M.A. Harv. Prof.
Murray, F. A., A.M., Ph.D. Harv.
Asst. Prof. (K.).

Mathematical Physics
Henderson, G. H., Ph.D. Camb., M.A. Prof. (K.).

Medicine and Surgery, v. *infra*

Modern Languages
Gautheron, Réné, ag. de l'Univ. (France) McLeod Prof.
Mercer, C. H., M.A., B.Com. Manc. Asst. Prof.
Scott, R. W., A.M. Prince.
Assoc. Prof. (K.).

Philosophy [Munro Prof.
Stewart, H. L., M.A. R.U.I. and Ox., Ph.D. R.U.I.
Symons, N. J., M.A. Ox.
Assoc. Prof. (*Psychol.*).

Physics [Munro Prof.
Bronson, H. L., B.A., Ph.D. Yale
Johnstone, J. H. L., Ph.D. Yale, M.Sc. Prof.
Colpitt, Merle P., M.A. Instr.
Kenty, C., B.A.
MacGregor Fellow.
1 Fellow.

Physiology and Histology
Babkin, Boris, M.D. St. Petersburg D.Sc. Lond. Prof.
Bean, R. J., M.S. N.H.
Assoc. Prof. (*Hist. & Embry.*).
McLaren, P. D., M.D., C.M. Demr.

Political Science, Government and
Munro, H. F., M.A. Harv.
Dennis Prof.

Law, v. also Com.

Agency
MacDonald, V. C., LL.B. Lectr.

Constit. L. [Munro Prof.
Read, J. E., B.C.L. Ox., B.A.

Contracts, Const. Hist., etc.
Smith, S. E., M.A. King's, LL.B. Instr.

Crimes [Lectr.
Doty, I. C., B.A. Acad., LL.B.

Dominion Statutes [Lectr.
Yeoman, R. F., B.A., LL.B.

Evidence
Fielding, G. H. Lectr.

Insurance
Thompson, W. E., LL.B. Lectr.
Jones, F. H. M., B.A., LL.B. ,,

Mortgages and Suretyship
Murphy, T. W., LL.B., K.C.
Lectr.

Partnership
Bell, F. H., B.A., K.C. Lectr.

Prac. Statutes and Interpn.
Macdonald, A. L., B.A. St. F.X., LL.B. Lectr.

Procedure and Property [Prof.
Read, J. E., B.C.L. Ox., B.A.

Shipping [Lectr.
Burchell, C. J., M.A., LL.B., K.C.

Statutes
Archibald, M. B., LL.B. Lectr.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Lessel, J. F., M.D., C.M. Demr.
Muir, W. L., M.D., C.M. McG. Demr.

Bact., v. Path. and Skin Dis.

(K.) = King's College.

Diseases of the Eye, etc.
Mathers, R. E., M.D. N.Y. Lectr.

Gynæcology, v. Obst.

Hygiene and Public Health
Prof. Hattie (v. Ment.) Prof.
Jost, A. C., M.D., C.M. McG. Lectr.
Chisholm, H. A., M.D., C.M. McG. Lectr.

Materia Medica
Burbidge, G. A., M.N.S. Phm. Soc. Demr.

Medical Jurispr.
Churchill, J. L., M.D., C.M. McG. Lectr.

Medicine and Clin. Med., v. also Ped. and Skin.
Silver, L. M., B.A. Vind., M.B., C.M. Edin. Prof.
MacKenzie, K. A., M.D., C.M. Assoc. Prof.
Grant, H. G., M.D., C.M., M.R.C.S., L.R.C.P. Lond. Lectr.
Sieniewicz, T. D., M.D., C.M. ,,
Johnston, S. R., M.D., C.M. Lectr.

Mental Diseases [Prof.
Hattie, W. H., M.D., C.M. McG.
Lawlor, F. E., M.D., C.M. McG. Demr.

Obst. and Dis. of Women and Children
Almon, W. B., M.D., C.M. (Obst.) Assoc. Prof.
Atlee, H. B., M.D., C.M., F.R.C.S. Edin. Assoc. Prof. and Head of Gynæc. Dept.
Macdonald, P. A., M.D., C.M. McG. (Practical O.) Demr.
Maclellan, E. K., M.D., C.M. Assoc. Prof.

Path. and Bacteriology
Nicholls, A. G., M.A., M.D., C.M., D.Sc. McG. Prof.
MacKenzie, D. J., M.D., C.M. Instr.
Lyons, J. N., M.D., C.M. Demr. in B.

Pediatrics and Medicine
Carney, M. J., M.D., C.M. McG., B.A. Lectr.

Pharmacology [Prof.
Gibbs, Owen S., M.B., Ch.B. Edin.

Skin Diseases and Medicine
Mack, F. G., M.B., C.M. Tor. (Demr. in Bact.) Lectr.

Surgery and Clin. Surg.
Hogan, E. V., M.D., C.M. McG., M.R.C.S. Eng., L.R.C.P. Lond. Prof. and Head of Dept.
Murphy, G. H., M.D., C.M. (Clin. S.) Assoc. Prof.
McDonald, H. K., M.D., C.M. McG. (Clin.) Prof.
Stewart, J., M.B., C.M., LL.D. Edin. (Surg.)* Prof.
Weatherbe, P., M.B., Ch.B. Edin. (Op. Surg.) Assoc. Prof. & Demr.
McDougall, J. G., M.D., C.M. McG. (Clin.) Assoc. Prof.
Thomas, L., M.D., C.M., M.R.C.S. Eng., L.R.C.P. Lond. (Pract. Surg.) Demr.

Therapeutics [Lectr.
Corston, J. R., B.A., M.D., C.M.

Dentistry

D. Anatomy
Ritchie, S. G., B.A. N.B., D.M.D. T.D.C. Prof.

Crown and Bridge Work, etc.
Thomson, G. K., D.D.S., P.D.C. Prof.
Oxner, W. C., D.D.S., B.C.D.S. Lectr.

Dentistry
Bagnall, J. S., D.D.S. Instr.

Exodontia and Radiology [Lectr.
Hennigar, G. R., D.D.S., B.C.D.S.

* Dean of Faculty.

Genl. and Oral Surg. and Anæsth.
Woodbury, F. V., M.D., C.M. Dal., L.R.C.S. and L.R.C.P. Edin., L.F.P.S. Glas. Prof.

History, Ethics, and Jurispr.
Chudleigh, D. G. A., D.D.S., B.C.D.S. Lectr.

Materia Medica
Woodbury, K. F., D.D.S. Lectr.

Operative D. [Lectr.
Beckwith, W. H. H., D.D.S. Penn.

Orthodontia
Woodbury, W. W., B.Sc., D.D.S. P.D.C. Prof.

D. Path. and Therap.
Cogswell, A. W., M.D., C.M. Hfx., M.C., D.D.S. Penn. Prof.

Prosthetic D.
..... Prof.
Fluck, G. H., D.D.S. P.D.C. Lectr.
Faulkner, A. W., D.D.S. Lectr.
Gardner, O. Asst. Demr.

ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, v. *infra*.

PRESBYTERIAN COLLEGE, Halifax. Classes and examns. in Hebrew and in New Testament Greek at the College are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certifs. of the Coll. are admitted to the 1st, 2nd, or 3rd yr. of the B.A. course.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for Mus.B. and Lic.Mus.

MARITIME COLLEGE OF PHARMACY. Courses recognized for B.Phm.

MOUNT ST. VINCENT ACADEMY. Recognized for Advanced Standing in 1st and 2nd years in Arts.

GENERAL INFORMATION (v. also p. 322)

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers, but was closed in 1845 for want of sufficient funds. In 1863 it was reorganized and opened with a staff of 6 Professors. In 1877 the Faculty of Science was organized, and from 1879 development proceeded rapidly with the help of the benefactions of George Munro of New York ($350,000), Alexr. McLeod of Halifax ($65,000), and Sir Wm. Young ($88,000). The Faculty of Law was established in 1883, the School of Mines in 1902. In 1911 the Halifax Medical College, into which the Faculty of Medicine (organized in 1868) had been merged, was acquired by the Univ., and the College of Pharmacy was established with its co-operation. In 1912 the work of the Maritime Dental College was taken over by the Univ. In this year $400,000 was collected for a new site (40 acres) and buildings, etc., towards which Andrew Carnegie gave $40,000. Further benefactions amounting to $200,000 were received in 1915–18.

In connexion with centenary celebrations in 1919 subscriptions amounting to $2,250,000 were obtained. One million of this was for Medical teaching and $300,000 for a Women's Residence.

Appointments to the Board of Governors are made by the Govr.-in-Council on the nomination of the Board or on the nomination, with the approval of the Board, of individuals or bodies supporting chairs.

LIBRARIES. 50,000 vols. and 10,000 pamphlets. Access also to Science Library—61,000 vols. and pamphlets; Legislative—24,000 vols.; Theol.—11,000; Law—18,000. MUSEUMS: Ornith., Geol., Indian antiquities. Access to Provincial Museum of Geol., Mineral., Zool. LABORATORIES: Chem., Physical, Geol., Engin., Biol., Bio-Chem., Physiol., Histol., Pharm., Psychol.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, and Engineering); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province which covers the 4 last years of the Public School 12-year course. The compulsory subjects for admission to the B.A., Phm.B., and LL.B. courses are (1) English, (2) Maths., (3) Latin or Greek, (4) another foreign language, (5) History (British or Ancient), Physics, or Chem.; B.Sc. or B.Mus.—(1), (2), (5), French, German; M.D., C.M., or D.D.S.—(1), (2), (4), Latin, Brit. Hist., Physics, Chem.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com.; 3 yrs.—LL.B., Mus.B.; 5 yrs.—D.D.S.; 6 yrs.—M.D., C.M. (taken together); 3 yrs. (following 4 yrs. practical experience)—Phm.B.; the first 2 yrs. of the Engin. course (v. p. 326). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 7 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ. The course may be pursued by graduates of Dalhousie wholly or in part by private reading, attendance at the Univ. being optional for them (v. also pp. 103, 265, 274, 275, 307, 640).

DIPLOMA course for the Lic.Mus.—2 yrs. Music and Pharmacy courses are taken in the Affiliated Institutions, v. *supra*. A 6 mos.' course of training for Pub. Health work for trained nurses is provided.

FEES. For tuition, for each class (ex. lab. or draughting-room), $18; lab. or draughting-room class, $23. Composition for tuition in Law, $150 p.a.; Med. or Dent., $200 p.a. (first year, $132).

SCHOLARSHIPS FOR GRADUATES. $250 in Polit. Sc. for study in another Univ.

RESIDENCE. Hostel for 90 women students, erected at a cost of $350,000. Dormitories are provided also for men students.

LOAN FUNDS for students have been instituted.

PUBLICATIONS. *Calendar* (July); *Annual Report* (Sept.); *Gazette*, $1.

THE YEAR 1923–24

NEW BUILDINGS, ETC. Medical Science Lab and Out-patient Clinic completed; central heating plant completed.

NEW POSTS. Prof. of Bio-Chemistry, Prof. of Math. Physics, Prof. of Applied Economics.

DEGREES CONFERRED. B.A., 48 (including women—25); M.A., 10 (w.—5); B.Sc., 3; M.Sc., 0; LL.B., 19 (w.—1); M.D., 30 (w.—2); D.D.S., 16 (w.—2); B.Com., 3 (w.—0). Hon. Degree, LL.D.—Byron, C. Borden.

STUDENTS. Graduates, 8; full-time undergrads., 713 (including women —213); others, 61.

UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

Associated with Dalhousie University.

PATRON—THE ARCHBISHOP OF CANTERBURY.

VISITOR AND PRESIDENT OF THE BOARD OF GOVERNORS—THE ARCHBISHOP OF NOVA SCOTIA.

VICE-PRESIDENT OF THE BOARD OF GOVERNORS—THE BISHOP OF FREDERICTON.

PRESIDENT—Rev. ARTHUR H. MOORE, M.A.

REGISTRAR—T. H. HUNT, M.A., D.D.

BURSAR AND DEAN OF RESIDENCE—R. L. NIXON, M Sc.

DEAN OF WOMEN—Miss E. M. MASON, B A.

PROFESSORS AND LECTURERS, November 17, 1924

Divinity

Vroom, Ven. Archdeacon F. W., D.C.L. Bishop's Coll., M.A., D.D. Senr. Prof. and Librarian.

Hunt, T. H., M.A., D.D. Alexandra Prof.

Paterson-Smyth, C., M.A. Tor., B.D. Prof.

Hiltz, R. A., M.A. Prof.

For *Classics, Economics, English, History, Maths., Math. Physics, Mod. Langs., and Philos.*, see Dalhousie Univ. staff list.

GENERAL INFORMATION (v. also p. 322)

Postal Address—King's College, North West Arm, Halifax, N.S.

Opened in 1790 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, following the recommendation of experts commissioned by the Carnegie Foundation for the Advancement of Teaching, who advocated the policy of bringing together the colleges of the Maritime Provinces in one central Univ. at Halifax, the Univ. removed to Halifax and became associated with Dalhousie Univ.—the first step towards a federation of the maritime colleges. The staffs in Arts of the two Univs. were combined in one faculty. The first year courses are given independently to the students of Dalhousie and of King's; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the Carnegie

Foundation has set aside $600,000, which will be handed over to King's when a sum sufficient to establish the College in Halifax has been raised. The School of Law which was established in connexion with the College, in St. John, N.B., in 1892, was transferred to the Univ. of New Brunswick in Sept. 1923, when King's College removed to Halifax. The Univ. is governed by a Board consisting of the Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a residence of six terms there, pass the required examns. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

THE YEAR 1923–24

Number of Students, 70. Degrees conferred: B.A., 9; M.A., 12; M.Sc., 1; B.D., 2; D.D., 2; D.C.L., 1. Retirement: Dr. C. E. Willets, Sept. 1923. Resignation: President, Dr. T. Stannage Boyle, June 1924.

LAVAL UNIVERSITY, QUEBEC

VISITOR AND CHANCELLOR APOSTOLIC—H.E. Cardinal L. N. BÉGIN, Archbishop of Quebec.

RECTOR—Prof. CAMILLE ROY, L. ès L. Sorbonne, D.Ph., Sup. of the Seminary of Quebec.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof. W. E. CANNON, M. ès A.

PROFESSORS, September 1924

Anatomy, v. Med.

Astronomy, Practical
Smith, A., M.A. (Dir. of Quebec Observatory) Prof.
Simard, H., M.A., D.D. Prof.

Biology, v. Med.

Chemistry
Fillion, Ph. J., M. ès A. Prof.

Chemistry, Analytical
Garneau, Sir G., B. ès Sc.Ap., Ing.Civ., C.L.D'H. Prof.

Chemistry, Organic [Prof.
Cardinaux, P., D. ès Sc. Frib.
Gunstenperger, J., D. ès Sc. Frib. Asst. Prof.

Classics
Pelletier, Mgr. F., M.A. (Greek Lit.) Prof.
Croissant, L., L. ès L. Sorbonne, M.A. (Greek Lang.) Prof.
Hébert, P., M.A. (Latin Lit.) Prof.
LeBel, A., D. ès Lettres (Latin Lit.) Prof.
Levesque, R., M.A., L. ès L. Sorbonne (Latin Lit.) Prof.

Commerce, v. Law

Dentistry, v. Med.

Economics, v. Soc.

Elocution
Rivard, Hon. A., M.A., D. en Dr., D. ès L., K.St.Gr.* Prof.

English
Cannon, W., M.A. Prof.

Entomology
Maheux, G., M.A., Ing.For. Prof.

Forestry
Piché, G. C., M.A., Ing.For. Prof.
Bédard, A., M.A., Ing.For. Prof.

Forest Law
Richard, L. A., D. en Dr. Prof.

French Language
Aubert, A. Prof.

French Literature [Prof.
Roy, C., L. ès L. Sorbonne, D.Ph.
Gaillard de Champris, H., D. ès L. Prof.
Maheux, A., M.A., L. ès L. Sorbonne Prof. of Rhetoric.
Laliberté, M., M.A., L. ès L. Sorbonne Prof. of Belles-Lettres.

Geography
Garneau, A., M. ès A. Prof.

Geology and Mineralogy
Vachon, A., M.A., L.Phil. Prof.

Histology, v. Med.

History (General)
Chapais, Hon. T., D.L., C.St.Gr., C.L.D'H. Prof.
Savard, G., Prof.

History of the Church
Roy, G., L.Ph., D.D. Prof.

* Judge of the High Court.

History of Canada and of the Church in Canada
Gosselin, Mgr., M.A. Prof.
Genest, O., B. ès L. Prof.

Law, v. *infra*

Mathematics
Tremblay, A. Prof.
Mercil, A., M. ès A., Ing.Civ., B. ès Sc.Ap. Prof.
Bergeron, O., M. ès A. Prof.

Medicine, v. *infra*

Music
Gagnon, G., Mus.D. Prof.
Lavigne, A., Mus.D. Prof.
Vezina, J., Mus.D. Prof.
Gilbert, J. A., Mus.D. Prof.
Talbot, R. Asst. Prof.

Pedagogy
Courchesne, G., D.Th. Prof.

Philosophy [Prof.
Roy, G., B.A., L.Ph., L.Dr., D.Th.
Robert, A., M.A., L. en Econ. Louv., D.D. Prof.

Physics
Simard, H., M. ès A., D.Th. Prof.
Christen, A., D. ès Sc. Prof.

Physiology, v. Med.

Social and Political Econ.
Gregoire, J. E., LL.L., L. és Sc. Louv. (S. and P.) Prof.

Surveying
Joncas, P., Ing.Civ., B. ès Sc.Ap., M.Can. Soc. C.E. (Building and S.) Prof.

Theology, v. also Hist.
Paquet, Mgr. L. A., V.G., D.Th., M.St.T.A. Prof.
Nadeau, E., D.Th., L. en Dr. Can. Prof.
Gariépy, Mgr. C. N., D.Th. Prof.
Gagnon, C., D.Th. Prof.
Foy, C., Lic. en. Ph., D.Th. Prof.
Gignac, Canon J., D.Th., D. en Dr. Can., Rome (Canon Law) Prof.
Grandbois, J. E., L. en Ph., D.Th. (Holy Script. and Orient. Langs.) Prof.
Robert, A., M.A., D.Th., D.Ph., D.St.T.A., L.Sc. Louv. Prof.

Zoology and Botany
Robitaille, A., M.A. Prof.

Law

Admin., Const., and Munic. L.
Sirois, J., D. en Dr. Prof.

Civil L. [Prof.
Dorion, Hon. C. E., D. en Dr.,*
Roy, F., D. en Dr., K.C., O.I.P. Prof.

Commerc. and Marit. Law
Bernier, L. M. J. A., D. en Dr.,* Prof.
Marchand, A., D. en Dr., K.C. Prof.
Gravel, J., D. en Dr., K.C. Prof.

Criminal L. [Prof.
Lachance, A., L. en D., Judge
Fitzpatrick, Rt. Hon. Sir Chas., G.C.M.G., D. en Dr., P.C.C. Prof.

History of L. [Prof.
St. Laurent, L., D. en Dr., K.C.

International L.
Rivard, Hon. A., M.A., D. ès L., D. en Dr.* Prof.

Municipal, L. [Prof.
Prévost, J. A., D. en Dr., K.C.

Procedure, Civil
Pouliot, A., D. en Dr. Prof.
Baillargeon, E., D. en Dr., K.C. Prof.

Roman L.
Flynn, Hon. E. J., D.en Dr.* Prof.
Belleau, E., D. en Dr., K.C. Prof.
Desrivières, E., D. en Dr. Prof.

Medicine

Anatomy, Descr.
Dagneau, C., M.D. Prof.

* Judge of the High Court.

Anatomy, Pathological
Vallée, A., M.D. (Dir. of P.A. and Bact. Labs.) Prof.

Anat. and Oper. Med., Pract.
Pâquet, A., M.D. Prof.

Biology
Vézina, C., M.D. Prof.

Dentistry
Langlois, A., D.Dent. Prof.
Gaudreau, S., D.Dent. Prof.

Dermatology
Mayrand, R., M.D. Prof.

Gynæcology and Gyn. Clin.
Grondin, S., M.D., C.L.D'H., O.I.P. Prof.
Caouette, J., M.D. Prof.

Histology and Bact.
Potvin, R., M.D. Prof.

Hygiene, Public
Paquin, R., M.D. Prof.
Couillard, E., M.D. Prof.

Laryngology
Fiset, L. J. N., M.D. Prof.
Dussault, N. A., M.D. (Rhino-Lar., etc.) Prof.
Vaillancourt, J., M.D. Prof.

Materia Medica
Faucher, P. V., M.D. Prof.

Turcot, E., M.D. Prof.
Roy, S., M.D. Prof.

Mental Disease
Brousseau, A., M.D. Paris Prof.

Ophthalmology
Pagé, J. D., M.D. Prof.

Ophth. and Ot. Clin., etc.
Coote, P., M.D. Prof.

Pathology, Ext. and Clin. Surg.
Simard, E. T. A., M.D., O.I.P. Prof.

Path., Genl. and Clin. Med.
Rousseau, A., M.D., O.A. Prof.

Path., Internal
Brochu, M. D., M.D., O.I.P. Prof

Pediatrics, Hygiene, etc.
Fortier, E. R., M.D. Prof.
Jobin, A., B.A., M.D. Prof.

Physiol. and Clin. Med.
Leclerc, O., M.D. Prof.
Lacroix, J. B. Prof.

Therapeutics
Guérard, J., M.D. Prof.
Lessard, A., M.D. Prof.

Toxicol., Leg. Med., etc.
Marois, A., M.D. Prof.

INSTITUTIONS ANNEXED OR AFFILIATED TO THE UNIVERSITY

[" Annexion " implies absolute control by the Univ. of the programmes of study and of the nomination of the staff. " Affiliation " or—in the case of an institution outside the province of Quebec—" agrégation " involves control by the Univ. of examinations.]

ÉCOLE D'ARPENTAGE ET DE GÉNIE FORESTIER (Surveying and Forestry). Founded by Govt. and annexed to the Faculty of Arts. Director, Avila Bédard, Prof. of Forestry. 11 other Profs.

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCATIÈRE, affiliated. Director, Prof. N. Pelletier. 12 other Profs.

ÉCOLE SUPÉRIEURE DE CHIMIE. Annexed to the Faculty of Arts. Director, Prof. P. Cardinaux. 7 other Profs.

ÉCOLE NORMALE SUPÉRIEURE. Annexed to the Faculty of Arts. Director, Prof. F. Pelletier. 4 other Profs.

ÉCOLE DE MUSIQUE. Annexed to the Faculty of Arts. Director, C. Desrochers. 5 other Profs.

ÉCOLE DE PHARMACIE. Annexed to the Faculty of Arts. Director, A. E. Francœur.

ÉCOLES DE GARDE—MALADES.

GRANDS SÉMINAIRES. (Pupils obtain the B. en Th. by passing a certain number of quarterly examns. in the Seminary.) Québec (comprising Theol. students under its jurisdiction or following its courses); Ste. Anne de la Pocatière (Coll. de Ste. Anne); Rimouski; Chicoutimi; Nicolet; Trois Rivières.

ENSEIGNEMENT SECONDAIRE MODERNE ET CLASSIQUE. Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for Inscription and the Baccalauréat.

GENERAL INFORMATION (v. also p. 322)

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, 158,000 vols. MUSEUMS: Mineral., Geol., Bot., Zool., Ethnol., Relig., Paintings, Coins. LABORATORIES: Chem., Phys., Bact., Biol., Physiol.

FACULTIES. Arts (with Schools of Surveying and Forestry, Chemistry and Training for Teachers annexed), Theology, Law, Medicine.

DEGREES AND DIPLOMAS. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine or applied science. It is obtained before he leaves the affiliated Institute, Seminary or College at which he has studied. Students who reach a certain standard in both Letters and Sciences obtain the B. ès A.; those who reach this standard in either and a certain lower standard in the other obtain the B. ès L. or B. ès Sc. The course for the Licence covers 2 yrs. in Philos. (L. en Ph.) or Letters (L. ès L.); 3 yrs. in Theol. or Law (L. en Th. or Dr.). To obtain the D. en Ph. or D. en Dr. it is necessary to support successfully in public a thesis and propositions as in other French Univs. The D. en Th. and D. en M. or M.D. are granted after examn.

The complete medical course formerly lasted only 4 yrs., but since Jan. 1909 has, in accordance with the regns. of the Provincial Coll. of Phys. and Surgns., been framed so as to cover 5 yrs. The Baccalauréat, however, may be taken on the completion of 2 yrs. The Doctorat gives admission to the examn. for the Diploma of M.R.C.S. Lond. Inscription in Arts is recognized as corresponding to the Prelim. examn. of the R.C.S. Lond. The examns. for the Dipl. of Hygiéniste expert may be taken by a D. en M. after a 6 mos.' course.

The Diploma in Forestry or Bachelorship in Surveying implies 4 yrs.' study in the Sch. of Surveying and Forestry.

The new École de Chimie provides a 4 yrs.' course leading to a Licence and to a Doctorate in Chemistry.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs., and some of those of the U.S.A. (v. also p. 275).

FEES for tuition, $100 to $150 p.a.

THE YEAR 1923–24

NUMBER OF STUDENTS. Arts, 1409 (including 888 in affiliated seminaries and Colleges); Theol., 367 (including 148 in affiliated Grands Séminaires); Med., 214; Law, 82; Total, 2072. Degrees conferred: B.-ès-A., 109. Others, 193.

McGILL UNIVERSITY, MONTREAL

VISITOR—THE GOVERNOR-GENERAL OF CANADA.

PRESIDENT OF THE BOARD OF GOVERNORS AND *ex officio* CHANCELLOR—E. W. BEATTY, B.A., K.C.

PRINCIPAL AND VICE-CHANCELLOR—Sir ARTHUR W. CURRIE, G.C.M.G., K.C.B., LL.D.

SECRETARY AND BURSAR—A. P. S. GLASSCO, B.Sc.

REGISTRAR—J. A. NICHOLSON, M.A., LL.D.

LIBRARIAN—G. R. LOMER, M.A., Ph.D.

HON. REPRESENTATIVE IN GREAT BRITAIN—W. A. BULKELEY-EVANS, M.A., 5 Paper Buildings, Temple, London. E.C.4.

INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 20 miles from Montreal), including School of Agric., School for Teachers, and School of Household Science.

Principal—F. C. Harrison, B.S.A. Tor., D.Sc.

ROYAL VICTORIA COLLEGE, Montreal (The Women's College of the Univ.).

Warden—Ethel Hurlbatt, M.A. Dub. (Somerville Coll., Oxford).

PROFESSORS, LECTURERS, ETC., October 1924

Accountancy

Thompson, R. R., A.C.A. (Engl. & Wales) Asst. Prof.

Agriculture, v. *infra*

Anatomy [Prof.

Whitnall, S. E., M.A., D.M. Ox.

MacDermot, H. E., M.D. Lectr.

Thompson, I. McL., B.Sc., M.B., Ch.B. Edin. Lectr.

12 Demrs.

Architecture

Traquair, R., M.A. (Hon.), F.R.I.B.A. Macdonald Prof.

Nobbs, P. E., M.A., F.R.I.B.A., A.R.C.A. (Design.) Prof.

Dyonnet, E. Spl. Instr.

Turner, P. J., F.R.I.B.A. (Constrn., etc.) Lectr.

Carless, W., O.B.E., F.R.I.B.A. Asst. Prof.

Thomson, L. R., B.A.Sc. Spl. Lectr.

Bio-Chemistry [Prof.

Macallum, A. B., M.A., M.B., Ph.D., D.Sc., LL.D., F.R.S.

Logan, J. F., Ph.D. Asst. Prof.

Mason, E. H., Ph.B., M.D. Lectr. (*Path. Chem.*).

Rabinovitch, I. M., M.D. Lectr. (*Path. Chem.*).

2 Demrs.

Biology, v. Zool.

Botany [Macdonald Prof.

Lloyd, F. E., M.A. Princeton.

Derick, Carrie M., M.A. (Morph. B.) Prof.

Scarth, G. W., M.A. Asst. Prof.

Symons, J. L., M.Sc. Lectr.

Chemistry
Ruttan, R. F., B.A., D.Sc. Tor., M.D. Macdonald Prof.
Evans, N. N., M.A.Sc. Assoc. Prof.
Johnson, F. M. G., M.Sc., Ph.D. Bres., F.I.C. Prof. (Inorg. C.).
Maas, O., M.Sc., Ph.D. Harv. Prof. (Physical Chem.).
Whitby, G. S., M.Sc., Ph.D., A.R.C.S. Prof. (Organic Chem.).
McLean, A. R. M., M.Sc., Ph.D. Asst. Prof.
Hatcher, H. W., M.Sc., Ph.D. Asst. Prof.
9 Demrs.

Classics
Woodhead, W. D., B.A. Ox., M.A. Alberta, Ph.D. Chic. Prof.
Slack, S. B., M.A. Ox. (Lectr. in Comp. Philol.) Prof.
Carruthers, C. H., B.A. Ox., M.A. Asst. Prof.
Thompson, A. M., Ph.D. Harv. Asst. Prof.
Irwin, Eliz. A., M.A. Lectr. & Tutor.*

Commerce, v. also Acctcy., Law
Sugars, R. M., M.A. Dir. of School and Assoc. Prof. of Spanish

Dentistry, v. *infra*

Economics, v. Pol. Econ.

Education
School for Teachers in Macdonald College: [Dean & Prof.
Laird, S., M.A., B.Phil.
Brunt, H. D., M.A., Ph.D. Lectr.
Percival, W. P., B.A. Lectr.
Lockhart, A. R. B., B.A. Lectr.
Thompson, J. G., M.A. Lectr.
McOuat, J. E., B.S.A. Lectr.
Musgrove, R. B. Lectr.
Brownrigg, Miss N. Lectr.
2 Instrs.

Department of Physical Education:
Lamb, A. S., M.D. Director.
6 Assts.

Engineering, v. *infra*

English Lang. and Lit.
McMillan, C., M.A., Ph.D. Harv. Molson Prof.
Latham, G. W., B.A. Harv. Assoc. Prof.
Files, H. G., M.A., Ph.D. Harv. Asst. Prof.
Baxter, F. W., B.A. Oxon. Asst. Prof.
4 Assts.

French [Prof.
Du Roure, R., Agrégé France
Furness, Lucie Tourer, L. ès L. France Asst. Prof.*
Messac, Regis Asst. Prof.
Villard, P., M.A., M.D., O.I.P. Assoc. Prof.
Framery, B. Lectr.
Roche, A. J., L.-ès-L. France Lectr.

Geology
..... Logan Prof.
Bancroft, J. A., Ph.D. Dawson Prof.
O'Neill, J. J., M.Sc., Ph.D. Asst. Prof.
Clark, T. H., Ph.D. Asst. Prof.
1 Demr.

German
Walter, H., M.A. Edin., Ph.D. Mun. Prof.
Lambert, E. T., B.A. Lond. Asst. Prof.
Meyer, Bertha, M.A. Lectr.

Hebrew and Semitic Langs.
Brockwell, C. A. B., M.A. Prof.
Gordon, A. R., M.A., D.Litt. Aberd. Prof.
Graham, W. C., M.A. Lectr.

Hellenistic Jewish Lit.
Abbott-Smith, G., M.A., D.D., D.C.L. Asst. Prof.

* In Royal Victoria Coll.

Histology and Embryology
Simpson, J. C., B.Sc. Assoc. Prof.
Fisk, W. M., M.D. (Histol.) Lectr.
Jackson, F. Slater (Embry.) Asst. Prof.

History
Williams, Basil, M.A. Ox. Prof.
Fryer, C. E., M.A., Ph.D. Harv. Prof.
Waugh, T. R., M.A. Assoc. Prof.
1 Asst.

Household Science
Philp, Miss B., Head of the School of H.S. in Macdonald Coll.
5 Instrs.

Law, v. *infra*

Logic, v. Philos.

Mathematics
Murray, D. A., Ph.D. (J.H.U.) Redpath Prof.
Sullivan, C. T., B.A. Dal., M.Sc., Ph.D. Chic., D.Sc. Prof.
Gillson, A. H. S., M.A. Camb. Assoc. Prof.
Matthews, T. H., M.A. Ox. Asst. Prof.
Tate, H., B.Sc., M.A. Dub. Asst. Prof.
Williams, W. L. G., Ph.D. Asst. Prof.
Dodd, G. J., M.Sc. (M. and Civ. Engin.) Lectr.
Jamieson, R. E., M.Sc. (M. and Civ. Engin.) Asst. Prof.
Campbell, A., B.Sc. Lectr.

Medicine, v. *infra*

Mineralogy [Assoc. Prof.
Graham, R. P. D., B.A. Ox., M.Sc.

Mining, v. Engineering

Music
Perrin, H. C., Mus.D. Dub. Prof.
Lichtenstein, Clara Assoc. Prof.*

Nursing
Shaw, Miss M. Directress of School.
16 Lectrs. and Instrs. (Part-time).

Philology, v. Classics

Philosophy
Caldwell, W., D.Sc. Edin. (Moral P.) Macdonald Prof.
Mackay, Ira. A., M.A. LL.B., Ph.D., LL.D. Prof.

Physics [Macdonald Prof.
Eve, A. S., D.Sc., F.R.S.
Barnes, H. T., D.Sc., F.R.S. Prof.
King, L. V., M.A. Camb., D.Sc. Prof.
Shaw, A. N., B.A. Camb., D.Sc. Assoc. Prof.
Gillson, A. H. S., M.A. Camb. Assoc. Prof.
Reilley, H. E., B.A., M.Sc. Asst. Prof.
Keys, D. A., M.A., Ph.D. Asst. Prof.
Bieler, E. S., M.Sc., Ph.D. Asst. Prof.
Foster, J. S., Ph.D. Asst. Prof.
7 Demrs.

Physiology
Tait, J., M.D., D.Sc. Drake Prof.
Green, F., M.D. Lectr.
Cassidy, G. J., M.D. Lectr.
Giblin, N., M.B., Ch.B. Asst. Prof.
5 Demrs.

Political Economy
Leacock, S., B.A. Tor., Ph.D. Chic., Litt.D., LL.D. Prof.
Hemmeon, J. C., M.A., Ph.D. Harv. Assoc. Prof.
Day, D. J., B.A., B.Sc., Ph.D. Assoc. Prof.
Farthing, John, M.A. Asst. Prof.

Psychology
Tait, W. D., B.A. Dal., Ph.D. Harv. Prof.
Kellogg, Chester E., Ph.D. Assoc. Prof.

* In Royal Victoria Coll.

Bridges, J. W., Ph.D.
Assoc. Prof. (Med. Psychology).

Social Service
Dawson, C. A., Ph.D. Director.
Gettys, W. E., Ph.D. Asst. Prof.
10 Lectrs.(Part-time).

Spanish, v. Commerce

Zoology [Strathcona Prof.
Willey, A., D.Sc., F.R.S.
Stafford, J., B.A. Tor., M.A., Ph.D. Leip. Asst. Prof.
Henderson, Jean T., B.A. Lectr.

Agriculture, School of, in Macdonald Coll.

Agricultural Engineering
Heimpel, L. G., B.S.A. Lectr.
1 Asst.

Agronomy
Summerby, R., M.S.A. Prof.
M'Taggart, Alex., Ph.D. Asst. Prof.
Raymond, L. C., B.S.A. Lectr.

Animal Husbandry
Barton, H., B.S.A. Prof.
Ness, A. R., B.S.A. Lectr.
Crampton, Earle W., M.S., B.S.A. Lectr.

Bacteriology [Prof.
Harrison, F. C., D.Sc. (Principal)
Sanborn, J. R., M.Sc. Lectr.
1 Asst.

Biology
Lochhead, W., B.A., M.Sc. Prof.
Dickson, B. T., B.A., Ph.D. Prof.
Duporte, E. M., Ph.D. Lectr.
Coulson, J. G., M.A. Lectr.
1 Asst.

Chemistry
Snell, J. F., Ph.D. Prof.
McCarthy, J. B., B.A., D.Sc. Asst. Prof.
1 Asst.

Homemakers Clubs, etc.
A Superintendent and 10 other Assts.

Horticulture
Bunting, T. G., B.S.A. Prof.
Tawse, W. J., B.S.A. Lectr.
Howitt, M. H., B.S.A. Lectr.
1 Asst.

Physics
..... Prof.

Poultry
Maw, W. A., B.S.A. Lectr.
1 Asst.

Dentistry

Clinical Dentistry
Thornton, A. W., D.D.S. (Dean of the Faculty) Prof.

Materia Med. and Therapeutics
Henry, Fred. G., D.D.S. Prof.

Operative D.
Baxter, F. H. A., D.D.S. Prof.
Driver, H. V., D.D.S. Lectr.

Oral Surgery
Henry, C. K. P., M.D. Lectr.

Orthodontia
Morison, J. B., D.D.S. Prof.
McClelland, A. W., D.D.S. Assoc. Prof.

Prosthetic D.
Cameron, G. S., D.D.S. Prof.
Dohan, J. S., D.D.S. Assoc. Prof.

D. Jurisprudence [Lectr.
Bond, W. L., B.A., B.C.L., K.C.

D. Anatomy
Abraham, J. W., D.D.S. Lectr.

D. History, Ethics and Econ.
Stevenson, F. A., D.D.S., D.M.D. Harv. Lectr.

Engineering

Applied Mech. and Hydraulics
Brown, E., M.Sc., M.Eng. Prof.

Civil Engineering
Mackay, H. M., B.A., B.A.Sc., M.Am.Soc.C.E. Prof.
Lamb, H. M., M.Sc. Assoc. Prof.
Jamieson, R. E., M.Sc. Lectr.

Dodd, G. J., M.Sc. Lectr.
2 Assts.

Economics
Brown, F. B., M.Sc. Lectr.

Electrical Engineering
Herdt, L. A., E.E. (Inst. Montef., Belg.), D.Sc. Macdonald Prof.
Christie, C. V., M.A., B.Sc. Dal. Assoc. Prof.
Burr, E. G., B.Sc. Asst. Prof.
Wallace, G. A., M.Sc. Asst. Prof.
2 Demrs.

Freehand Draw. & Descr. Geom.
Armstrong, H. F., M.A. (Hon.) Assoc. Prof.
3 Demrs.

Highway and Municipal E.
French, R. de L., B.Sc., C.E. Prof.

Law, Engineering
Weldon, J. W. Lectr.

Mechanical Engineering
McKergow, C. M., M.Sc. Prof.
Roberts, A. R., M.Sc. Assoc. Prof.
Coote, J. A., B.Sc. Asst. Prof.
Patton, R. H., B.Sc. Lectr.
Vessot, C. U., M.Sc. Lectr.
McCurdy, L. R., B.Sc. Lectr.
5 Demrs.

Metallurgical Engineering
Stansfeld, A., D.Sc. Lond. Prof.
Sproule, Gordon, M.Sc. Asst. Prof.
Pascoe, C. F. Spl. Lectr.
Roast, H. J. Sess. Lectr.
1 Asst.

Mining Engineering
Porter, J. B., E.M., Ph.D. Col., D.Sc. (Hon.) Cape, M.I.C.E. Macdonald Prof.
Bell, J. W., M.Sc. Assoc. Prof.
Erlenborn, Willi, M.Sc. Lectr.
3 Research Fellows

Surveying and Geodesy
Kelly, A. J., B.Sc. Asst. Prof.
Weir, James, B.Sc. Asst. Prof.
1 Demr.

Law

Civil Law
Howard, Hon. Justice E. E., B.A., B.C.L., K.C. Prof.
Chipman, W. F., B.A., B.C.L., K.C. Assoc. Prof.
Beullac, P., K.C. Lectr.

Civil Procedure [Prof.
Surveyer, Hon. Justice E. F., B.A. Laval, B.C.L., K.C.

Commercial Law [Prof.
Martin, Justice J. E., B.C.L., K.C.
Le Mesurier, C. S., B.A., B.C.L. Assoc. Prof.
Tyndale, O. S., M.A., B.C.L. Asst. Prof.

Constitutional and Federal Law
Smith, H. A., M.A. Ox. Prof.

Constitutional Law
Mackay, I. A., M.A., LL.B. Dal., Ph.D. Corn. Prof.

Criminal Law
Greenshields, Hon. Justice R. A. E., B.A., B.C.L. Prof.

Criminal Procedure
Calder, R. L., B.C.L., K.C. Lectr.

Ethics, Legal [Prof.
Mignault, P. B., LL.D. Laval, K.C.

Evidence Prof.
Wainwright, A., B.A., B.C.L., K.C.

Internat. Law, Private
McDougall, G. W., B.A., B.C.L., K.C. Prof.

Municipal Law
Rinfret, T., B.C.L. Lectr.

Notarial Law
Bridgman, R. H., B.C.L. Lectr.

Roman Law [Prof.
Corbett, P. E., B.A. (Jurispr.) Ox.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology
Bruère, A. A., M.D. Edin. (B. and Clin. Med.) Asst. Prof.
1 Asst. Demr.

Dermatology [Clinical Prof.
Campbell, C. G., B.Sc., M.D.
Burnett, P., M.D. Lectr.
1 Demr.

Gynæcology and Obst.
Chipman, W. W., B.A., M.D. and F.R.C.S. Edin. Prof.
Lockhart, F. A. L., M.B. Edin., M.D. Prof.
Little, H. M., B.A., M.D. Asst. Prof.
Goodall, J. R., O.B.E., B.A., M.D., D.Sc. Lectr.
Patrick, D., M.D. Lectr.
Duncan, J. W., M.D. Lectr.
Burgess, H. C., M.D. Lectr.
Fraser, J. R., M.D. Lectr.
2 Demrs.

History of M.
Macphail, Sir A., B.A., M.D. Prof.

Hygiene [Strathcona Prof.
Starkey, T. A., M.B., D.Ph., L.R.C.P. Lond., M.R.C.S. Eng., M.D., C.M.
McDonald, R. St. J., B.A., M.D., D.P.H. Asst. Prof.
Jones, F. B., M.D., D.P.H. Asst. Prof.

Immunology
Gurd, F. B., B.A., M.D. Lectr.

Med. Jurispr. [Prof.
MacTaggart, D. D., B.A.Sc., M.D.

Med. and Clin. Med., v. also Bact., Ped.
Meakins, J. C., M.D. Prof.
Howard, C. P., B.A., M.D. Prof.
Martin, C. F., B.A., M.D. Prof.
Hamilton, W. F., M.D. Prof.
Gordon, A. H., M.D. Assoc. Prof.
Peters, C. A., M.D. Lectr.
Mason, E. H., M.D. Lectr.
Robertson, A. A., B.A., M.D. Lectr.
Kaufmann, J., M.D. Lectr.
Cushing, H. B., M.D. Lectr.
Lewis, D. S., B.A., M.D. Lectr.
Wylde, C. F., M.D. Lectr.
Moffatt, C. F., M.D. Lectr.
Rabinovitch, I., M.D. Lectr.
21 Demrs. and Asst. Demrs.

Neurology, Clin.
Russel, C. K., B.A., M.D. Clinical Prof.
Mackay, F. H., B.A. Lectr.
1 Demr.

Ophthalmology, v. also Bact.
Byers, W. G. M., M.D., D.Sc. Prof.
Mathewson, G. H., B.A., M.D. Clinical Prof.
Tooke, F. T., B.A., M.D. Lectr.
McKee, S. H., B.A., M.D. Lectr.
4 Demrs. and Asst. Demrs.

Oto-Laryngology
Birkett, H. S., C.B., M.D. Prof.
Hamilton, H. D., M.A. Bish., M.D., L.R.C.P. and S. Edin., L.F.P.S. Glas. (O.-L. & Rhin.) Lectr.
4 Demrs. and Asst. Demrs.

Parasitology [Assoc. Prof.
Todd, J. L., B.A., M.D., D.Sc. (Hon.) Liv., M.R.C.S.E.

Pathology
Oertel, H., M.D. Strathcona Prof.
Rhea, L. J., B.Sc., M.D. Assoc. Prof.
Crowdy, C. T., M.D. Lectr.
Scott, J. W., M.D. Lectr.
Waugh, R. T. Lectr.
9 Demrs.

Pediatrics
Fry, F. M., B.A., M.D. (also Demr. in Clin. Med.) Lectr.
Cushing, H. B., M.D. Clinical Prof.
Chandler, A. B., M.D. Lectr.
Ross, S. Graham, B.A., M.D. Lectr.
7 Demrs. and Asst. Demrs.

Pharmacy
Moore, A. B. J., Ph.G. Hd. of Dept., Prof.

Pharmacology
Stehle, R. L. Prof.
Bourne, W., M.D. Lectr.

Lewis, D. S., B.A., M.D. Asst. Prof.
3 Demrs.

Physio-Therapy
Harvey, F. W., B.A., M.D. Lectr.
Brown, N., M.D. Lectr.

Psychiatry [Clinical Prof.
Porteous, C. A., M.D.
Mundie, G. S., B.A., M.D. Lectr.
Mitchell, W. T. B., M.D. Lectr.
2 Demrs.

Radiology
2 Demrs.

Surgery and Clin. Surg. [Prof.
Archibald, E. W., B.A., M.D.
Bazin, A. T., M.D. Prof.
Eberts, E. M., M.D., M.R.C.S. Eng. Assoc. Prof.
Barlow, W. L., B.A., M.D. Asst. Prof.
Keenan, C. B., M.D. Asst. Prof.
Patch, F. S., B.A., M.D. (Genito-Urinary) Prof.
Mackenzie, D. W., B.A., M.D. (Genito-Urinary) Prof.
Turner, W. G., B.A., M.D., M.R.C.S. Eng. (Orthop. Surg.) Prof.
Forbes, A. M., M.D. (Orthop. Surg.) Prof.
Howell, W. B., M.D. (Anæsthesia) Lectr.
Hepburn, W. G., M.D. (Anæsthesia) Lectr.
Scrimger, F. A. C., B.A., M.D. Lectr.
Tees, F. J., B.A., M.D. Lectr.
Henry, C. K. P., M.D. Lectr.
McKenty, F. E., M.D. Lectr.
Gurd, F. B., B.A., M.D. Lectr.
Powell, R. E., B.A., M.D. Lectr.
Nulter, J. A., B.A., M.D. Lectr. (Orthop. Surg.).
10 Demrs. and Asst. Demrs.

AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2-yr. course in Engin. of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses. Alberta students who have completed their 3rd yr. in the Med. course are admitted to the 4th in McGill.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Appl. Sc. Particulars obtainable from the Dean of the Faculty.

THEOLOGICAL COLLEGES

CONGREGATIONAL COLLEGE OF CANADA, MONTREAL. Principal, D. L. Ritchie, B.A., D.D.

DIOCESAN COLLEGE OF MONTREAL. Principal, E. I. Rexford, M.A., LL.D.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, D. J. Fraser, M.A., LL.D.

WESLEYAN COLLEGE OF MONTREAL. Principal, J. Smyth, LL.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

GENERAL INFORMATION (v. also p. 322)

The Hon. James McGill, of Montreal, who died in 1813, bequeathed 46 acres of land, with some buildings and £10,000, to found a college, and in 1821 the Royal Institution for the Advancement of Learning, the trustees for the

purposes of the bequest, obtained a Royal Charter (amended in 1852) under which the work of teaching was begun in the Faculties of Arts and Med. in 1829. The Governors are the members of the Royal Institution above mentioned. Their number is limited to 25, and vacancies are filled by nomination of the remaining members, with the approval of the Visitor. The Govrs., Principal, and 42 Fellows (representing faculties and depts., grads., affild. colls., and other bodies) constitute the Corporation, the highest academical body, which frames regulations. The Peter Redpath Museum was opened in 1882, the Redpath Library in 1893, Royal Victoria Coll. in 1899, the Conservatorium in 1904. Macdonald College was opened in 1907, and in 1911 Sir Wm. Macdonald purchased for the use of the Univ., at a cost of $1,117,640, 25 acres of land, destined for students' residences and athletic grounds. The same year $1,550,000 was raised for the Univ. chiefly from Montreal citizens. Sir Wm. Macdonald bequeathed nearly $2,000,000, of which $500,000 was for the Medical Faculty and $300,000 for the Conservatorium. In 1918 the Carnegie Corporation, New York, gave $1,000,000 in recognition of McGill's service and sacrifice in the Great War. In 1920 the sum of $1,000,000 was given by the Rockefeller Foundation for the Faculty of Medicine; $1,000,000 by the Provincial Govt. for general purposes; and $4,400,000 was raised from the graduates and the citizens of Montreal as a general endowment. Income from Investments, about $1,000,000.

SPECIAL FEATURES. The provision for instruction and research in Applied Science is exceptionally ample, especially in Engin. in all its branches. The Med. School also is exceptionally strong.

LIBRARIES, 186,000 vols. (Medical, 30,000; large Ophth. Dept.) and 31,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600; E. S. Wood Library of Ornithology; Blackader Library of Archit.; Blacker Library of Zool.; Travelling Library. LABORATORIES: Engineering and Chemistry, each accommodating 200 students; Physics; Zool., 100 students, 3 rooms specially fitted up for research; Bot., 43 students; Physiol., 80; Psych. Research; Agric. Research. FARM. Live Stock and Grain, 786 acres. Astron. OBSERVATORY. MEDICAL MUSEUM (Strathcona), said to be the finest in America; rich collection of disturbances of heart and vascular system and aneurisms. HOSPLS. available for clinics general—800 beds, several special.

FACULTIES. Arts, Law, Medicine (including Pharmacy), Applied Science (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining) Agric., Dentistry, Music. The Univ. has also Schools of Commerce, Physical Educn., Graduate Nurses, Social Service, a Graduate School, and (in Macdonald Coll.) Household Science and a School for Teachers.

ADMISSION. For candidates in Great Britain an examn. is held in London in June: particulars obtainable from W. A. Bulkeley Evans, M.A., 5 Paper Buildings, Temple, London, E.C.4.

DEGREE COURSES. 3 yrs.—B.C.L., Mus.Bac.; 4 yrs.—B.Com., B.A., B.Sc. B.S.A., B.H.S. (Household Science), D.D.S.; 5 yrs.—B.Arch., M.D., C.M.

B.A. or B.Sc. (Arts) course combined with B.Com., 5 yrs.; with Appl. Sc or Theol., 6; Med., 8.

Med. students of 4 yrs.' standing of an approved institution may be admitted to the final examn. after one full session in McG. Recent grads. of approved Univs. may qualify for examns. by advanced courses or special research.

HIGHER DEGREES. Obtainable by 1 yr. of resident graduate study at McG., thesis and examn.—M.A., M.Sc., LL.M., M.S.A; by 3 yrs. of graduate

study—Ph.D.; by valuable contribution to legal science—D.C.L.; by a composition and examn. not less than 3 yrs. after taking the Mus.Bac.—Mus.Doc.; on recommendation of Board of Grad. studies—D.Sc., D.Litt.

DIPLOMAS. Lic. Mus., D.P.H., Teachers, Pharmacy, Graduate Nurses', Physical Education, Social Science.

ATTENDANCE at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable.

RECOGNITION by other Univs. v. pp. 103, 265, 274, 275, 307.

FEES. Per annual session, Arts, $100; Appl. Sc., $205; Med., $200; Dent., $200; Law, $150; Music, $180; Commerce, $150; Agriculture, residents of Canada, $50, others, $100; M.A. or Ph.D. course, $40. Graduation fee for M.A. or M.Sc., $20; Ph.D., $30; D.Sc. or D.Litt., $80.

SCHOLARSHIPS FOR GRADUATES. In Econ. and Polit. Sc., Allen Oliver, $650; Canadian Manufrs. Assocn., $800; Chem., Sterry Hunt; Geol., Le Roy, $700; Mining Research and Teaching Fellowships, 3 of $500 each; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, $10,000 open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, $25,000; any subject, "Delta Upsilon," $750; The Moyse *Travelling Scholarships*, 2 of $1500 each; Law, Macdonald Endowment, $20,000.

RESIDENCE. Women, Roy. Vict. Coll.; men, Strathcona Hall (Y.M.C.A.), accommodation for 60. PHYSICAL TRAINING is compulsory, and students are subjected to physical examn. on entering the Univ. Board and residence in Roy. Vict. Coll., $500 per session; in private houses, $60 p.m. and upwards; rooms only, $15 to $20 p.m.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

PUBLICATIONS. *Calendar* (June); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students; *Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, $5.

THE YEAR 1923–24

PRINCIPAL BENEFACTIONS. Rockefeller Foundation, $500,000 for medical research; Lady Roddick, $50,000 for erection of gates in memory of her late husband, Sir Thomas Roddick; anonymous donor, $40,000 towards purchase of property for a Faculty Club; Dr. Casey A. Wood, books valued at $4000 and a collection of paintings of birds of Fiji, valued at £600, for the Emma S. Wood Library of Ornithology; Mr. and Mrs. R. E. Blacker, $18,000 for books for the Blacker Library; Lady Strathcona, $120,000 to endow Chair of Zoology; Lady Osler, $100; Montreal Light, Heat and Power Co., $200 for prizes in Electrical Engin., and $5000 p.a. for 5 years towards additional accommodation for the Dept. of Electrical Engin.; Shawinigan Water and Power Co., $3000 p.a. for 5 years for same purpose; Samuel Greenshields bequest, $5000.

NEW BUILDINGS. The Pathological Institute was completed and equipped. It was determined to add a new wing, providing 11,000 sq. feet additional floor space to the Engineering building for Elec. Engineering. A Faculty Club building was acquired. A new entrance gate and clock were presented as a memorial to the late Sir Thos. G. Roddick by his widow.

CHANGES IN ORGANIZATION. The Dept. of Medicine was reorganized, a Univ. clinic being established under the direction of the Prof. of Med., who

is at the same time chief medical officer of the Royal Victoria Hospital, and devotes his whole time to the treatment of patients in it and teaching and research. The Dept. of Experimental Med. was also reorganized and placed under the Prof. of Physiology.

CHANGES OF CURRICULUM. The LL.B. course (mainly English common law) was abolished. Proposals for widening the B.C.L. course and for prescribed 3 complete years at the Univ. and 1 in an office were considered. The 4-years course in the Sch. of Commerce was operated for the first time. A course in Actuarial Science was instituted in co-operation with members of the Institute of Actuaries. The curriculum of the Faculty of Medicine now covers 5 years instead of 6, the work of the First Year of the old six-year curriculum having been transferred to the Faculty of Arts. Two pre-medical years in the Faculty of Arts of this or any recognized Univ. are now required, during which Chemistry is studied for 2 years, Physics for at least 1, and Biology for 1.

RETIREMENTS: Prof. Frank Adams, Vice-Principal (Emeritus); Prof. F. G. Finley (Emeritus), succeeded by C. P. Howard from Iowa; Prof. J. W. A. Hickson. RESIGNATIONS: J. A. Gray, Assoc. Prof. of Physics, to accept the Crown Scientific Research Professorship at Queen's Univ.; Prof. Carleton J. Lynde, appointed to Chair of Physics in Teachers' College, Columbia Univ., New York; H. E. A. Rose, Lectr. in Roman and Civil Law, to resume the practice of his profession. DEATHS: A. E. Garrow, Asst. Prof. of Surgery, Nov. 7; J. Harkness, Prof. of Pure Maths., Dec. 8; P. T. Lafleur, Prof. of English, Feb. 9; C. E. Moyse, Prof. of English, June 28. OTHER NOTABLE CHANGES: F. W. Baxter from King's College, London, apptd. Asst. Prof. of English; J. W. Bridges from Univ. of Toronto, apptd. Assoc. Prof. of Med. Psychology; P. E. Corbett, formerly Legal Adviser to the League of Nations, apptd. Prof. of Roman Law; W. E. Gettys from Univ. of Texas, apptd. Asst. Prof. of Social Science; C. E. Kellogg from Acadia Univ., apptd. Assoc. Prof. of Psychology; J. C. Meakins, formerly Prof. in the Univ. of Edinburgh, apptd. Head of Dept. of Medicine; W. T. B. Mitchell, formerly Psychiatrist in Soldiers' Civil Re-establishment, Ottawa, apptd. Lectr. in Psychiatry; May Reid, formerly Instr. of Case Work in Summer School, Columbia Univ., apptd. Instr. in Social Case Work and Supervisor of Field Work.

HONORARY DEGREES. *LL.D.*—Fridtjof Nansen, L P. Jacks, G. H. Lorimer.

OTHER DEGREES. B.A., 73 (including women—37); B.Sc. in Arts, 11 (women—4); B.Com., 40 (w.—3); B.Sc. in Applied Science, 104 (viz. Chem. Engineering, 13, Civil, 21, Elec., 26, Mech., 25, Metallurgical, 5, Mining, 14); B.Arch., 4; B.C.L., 22; LL.B., 5; B.S.A., 6; Mus.Bac., 2 w.; B.H.S., 4 w.; D.D.S., 24; M.D., C.M., 167 (w.—3); M.A., 14 (w.—6); M.Sc., 31 (w.—3); M.S.A., 5; Mus.Doc., 1; Ph.D., 2. *Diplomas*: Pharmacy, 5; Social Sc., 2; Graduate Nurses, 23; Physical Ed., 24; Lic.Mus., 7.

NUMBER OF STUDENTS. Arts, 719 (including women—282); Commerce, 205 (women—10); Applied Sc., 465; Med., 652 (w.—14); Pharmacy, 52 (w.—1); Dentistry, 133 (w.—1); Law, 76 (w.—2); Agric., 304; Music, 85 (w.—70); Sch. for Social Work, 26 w.; Physical Educ., 58 (w.—56); Household Sc., 107 w.; Graduate Nurses, 48 w.; Graduate Studies and Research, 110 (w.—13). Total, 3040. Students taking Extension Courses, 1065, and 147 in the Summer School in French.

EXTENSION COURSES. The most ambitious was one in Life Insurance, Theory, and Salesmanship, comprising 90 lectures, attended by 118; Courses were given at Shawinigan Falls, Que., and Quebec City, chiefly for teachers.

Those at the Univ. included such subjects as Acctcy., Biology, English, French, History, Metallography, Psychology, Social Science, Spanish, Archit., Astronomy, Highway Materials, Music, Economics, Social Problems, and Home Economics.

SUMMER SCHOOLS. Two were held at Macdonald College (Rural Improvement and Drawing). School for the training of *Librarians*, May 19 to June 27; attendance, 10. *French* Summer School, June 26 to July 31, 147.

McMASTER UNIVERSITY, TORONTO

CHANCELLOR AND PRINCIPAL—HOWARD P. WHIDDEN, B.A. Acadia, D.D. Dennison, LL.D.

REGISTRAR AND TREASURER—E. J. BENGOUGH, B.A.

LIBRARIAN—DOROTHEA M. HALLFORD, B.A.

PROFESSORS, LECTURERS, ETC., November 1924

Biology [Prof.
Smith, R. W., B.A., Ph.D. Chic.

Chemistry
Walker, W. O., M.A. Tor. Prof.

English
McLay, W. S. W., M.A. Harv., D.Litt. Ac., LL.D. Queen's Prof.

French
Franzen - Swedelius, B., B.A., Ph.D. Col. Prof.

Geology
McNairn, W. H., M.A. Tor., Ph.D. Tor. Prof.

German
Mueller, P. W., B.A. Tor. Prof.

Greek
Campbell, P. S., M.A. Tor. Prof.

History
New, C. W., B.A. Tor., B.D., Ph.D. Chic. Prof.

Latin
Moon, A. J., M.A. Virg. Prof.

Mathematics [Prof.
Findlay, W., M.A., Ph.D. Chic.

Philosophy, Psychology, Logic, and Ethics
Ten Broeke, J., M.A. Middlebury, Ph.D. Yale Prof.

Physics
Dawes, H. F., M.A. Tor., Ph.D. Tor. Prof.

Political Economy and Sociology
Michell, H., M.A. Ox. Prof.

Public Reading and Speaking
Kirkpatrick, F. H., Ph.D. Spl. Lectr.

Theology

Christian Ethics, Education, and Sociology
McCrimmon, A. L., M.A. Tor., LL.D. Prof.

Church History and Missions
Brown, J. G., M.A., D.D. Prof.

Homiletics and Pastoral Theol.
..... Prof.

New Test. and Patristic Greek
Farmer, J. H., B.A. Tor., LL.D. Prof.

Old Test., Hebrew and Aramaic
Curr, H. S., M.A. Ox., B.D. Edin., B.Litt. Ox. Prof.

Preliminary Course
Morgan, J., M.A. Tor. Spl. Lectr.

System. Theol. and Apologetics
Keirstead, E. M., B.A. New Bruns., M.A., D.D. Acad., LL.D. St. Fr. X. Prof.

Hon. Lectrs.:
MacNeill, J., B.A., D.D. (Evangelism).
Merrill, B. W., B.A., B.Th. (Rel. Educn.).

AFFILIATED COLLEGE

BRANDON COLLEGE, Brandon, Man., controlled by Baptist Union of W. Canada. Affild. for courses in Arts.

GENERAL INFORMATION (v. also p. 322)

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by $900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Woodstock Coll. and Moulton Ladies' Coll., Toronto (founded in 1888), are represented on the Senate.

LIBRARY, 26,000 vols. LABORATORIES: Phys., Bio,. Chem., Mineral. Science Hall has 24 lecture rooms and labs.

DEGREE COURSES. 4 or 5 yrs., B.A.; 3 yrs. (after completing 2 yrs. of Arts course), B.Th.; 6 yrs., combined B.A. and B.Th. The first 2 yrs. in Arts do not necessarily involve attendance at lectures. Brandon Coll. provides instruction in Swedish for immigrants from that country.

The B.A. degree is recognized by the Univ. of London, v. p. 103.

HIGHER DEGREES. Open to B.A. after 1-yr. course (attendance at lectures not required)—M.A.; to B.Th. who are also B.A. and have taken 3 yrs. in Hebrew, involving 1 yr. of study after graduating as B.Th.—B.D.

DIPLOMA. English Theol., 3 yrs.' course.

CERTIFICATE. Missionary Training for women.

ADULT EDUCATION. For adults who have not the necessary foundation for admission to the English Theol. or Women's Missionary course, a year of literary and biblical work qualifying for such admission is provided, chiefly in the form of evening classes.

FEES. Annually, for tuition, examn., library—Arts, $60, Theol., $12. For student organizations, athletics, etc., men, $7, women, $9.

RESIDENCE. Board and room per session, men, in McMaster Hall, $240; women, in Wallingford Hall, $9 a week.

PUBLICATIONS. *Calendar* (June); *McMaster Monthly* (students' magazine); *McMaster Graduate*, three times a year.

THE YEAR 1923–24

HONORARY DEGREES CONFERRED. In connexion with the Installation of Chancellor Whidden in Nov. 1923: *LL.D.*—W. S. Fielding, W. W. Charters, Sir Arthur W. Currie, W. H. P. Faunce, M. Hutton, C. C. Jones, W. C. Murray, J. H. Shakespeare, R. B. Taylor. *D.D.*—P. K. Dayfoot, A. Gandier, G. E. Horr, E. Y. Mullins. *D.Litt.*—G. H. Clarke, W. S. Fox. In May 1924: *LL.D.*—J. Ten Broeke. *D.D.*—H. H. Bingham, A. S. Lewis.

OTHER DEGREES. B.A., 60 (including women—22); M.A., 8; B.Th., 3.

STUDENTS. Graduates, 37 (including women—2). Undergrads., full-time, 255 (w.—78); part-time, 45 (w.—15). Total, 329 (excluding duplicate registration). Students preparing for B.A., 212; for Theol.Dip. and B.Th., 42; for Missionary Training Certif., 1.

UNIVERSITY OF MANITOBA, WINNIPEG

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHAIRMAN OF THE BOARD OF GOVERNORS—JOHN A. MAÇHRAY, M.A., LL.B., K.C.

VICE-CHAIRMAN—.....

CHANCELLOR—Most Rev. S. P. MATHESON, D.D., D.C.L., Archbishop of Rupert's Land.

VICE-CHANCELLOR—Rt. Rev. Mgr. A. A. CHERRIER, LL.D.

PRESIDENT—JAMES A. MACLEAN, Ph.D., LL.D.

REGISTRAR AND SECRETARY OF BOARD OF GOVERNORS—W. J. SPENCE, B.A.

LIBRARIAN—F. E. NUTTALL, M.A.

DEAN OF WOMEN—URSILLA N. MACDONNELL, M.A., Ph.D.

PROFESSORS, LECTURERS, ETC., November 26, 1924

Agriculture, v. *infra*

Anatomy, v. also Med.-Surg.

Grant, J. C. B., M.B., Ch.B., F.R.C.S. Edin. Prof.
McGibbon, R. T., M.B., Ch.B. Glas. Asst. Prof.
Wheeler, D., M.A., M.D., C.M., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.
Grain, G. O., B.A., M.D., C.M. Demr.
Hogg, A. W., B.A., M.D. Demr.
Boyle, S. F., M.D., C.M. Demr.
4 Student Demrs.

Architecture

Stoughton, A. A., Ph.B. Col. Prof.

Bio-Chemistry

Cameron, A. T., M.A., B.Sc. Edin., F.I.C. Prof.
Ingvaldsen, T., M.S., Ph.D. Asst. Prof.
White, F. D., Ph.D. Edin., F.I.C. Lectr.
Kitchen, H. D., M.D., C.M. Lectr.

Botany

Buller, A. H. R., B.Sc. Lond., D.Sc. Birm., Ph.D. Leip., LL.D. Prof.
Roberts, H. F., B.A. Kans., LL.B. N.-Wstn., M.Sc. Kans. (Agr.) Asst. Prof.
Lowe, C. W., M.Sc. Birm. Lectr.
1 Demr.

Chemistry

Parker, M. A., B.Sc. Glas., LL.D., F.I.C. Prof.
Armes, H. P., B.Sc. Leeds, Ph.D. Stras. Asst. Prof.
Shipley, J. W., M.A., Ph.D. Harv. Asst. Prof.
Hiebert, P. G., M.A. Tor., M.Sc., Ph.D. McG. Lectr.
3 Demrs. and 4 Student Assts.

Classics

Clark, F. W., Ph.D. Chic., B.A. Prof.
Hugill, W. M., B.A. Tor. Asst. Prof.

Tracy, H. L., B.A. Tor., Ph.D. Chic. Lectr.
1 Fellow.

Engineering, Civil
Finlayson, J. N., M.Sc. McG., M.E.I. Can. Prof.

Asst. Profs.:
Moffatt, R. W., B.A.Sc. Tor., A.M.E.I. Can.
Cameron, C. F., B.A., B.Sc., A.M.E.I. Can.
Macdonald, A. E., M.Sc. McG.
Herriot, G. H., B.Sc. Qu., D.L.S.

Lectr.:
Scott, W. M., B.A.Sc. McG., M.E.I.C.
2 Demrs.

Engineering, Electrical
Fetherstonhaugh, E. P., B.Sc. McG., M.E.I.C., A.M.A.I.E.E. Dean of Fac. Prof.
Dorsey, J. W., E.E. Lehigh, A.M.E.I.C. Asst. Prof.
1 Demr.

Engineering, Mechanical
Hall, N. M., O.B.E., B.Sc. McG., A.M.E.I.C. Asst. Prof.

English
Crawford, A. W., M.A. Tor., Ph.D. Corn. Prof.
Perry, A. J., M.A. Yale Asst. Prof.
Allison, W. T., M.A. Tor., Ph.D. Yale Asst. Prof.
Woodhouse, A. S. P., B.A. Tor., A.M. Harv. Asst. Prof.
Haddow, G. C., M.A. Tor., B.A. Ox. Lectr.
Argue, R. F., M.A. Lectr.

French
Osborne, W. F., M.A. Tor. Prof.
Green, F. C., M.A., St. And., Ph.D. Cologne Asst. Prof.
Ballu, Céline A., B.A. Wisc. Lectr.
Haynaud, A. Marie, B.A. Qu. Lectr.
Richard, M. E., B.A. Alb. Lectr.

Geology and Mineralogy
Wallace, R. C., M.A., D.Sc. Edin., Ph.D. Gött., F.G.S. Prof.
De Lury, J. S., B.A. Tor., M.A.I.M.E. Asst. Prof.
Brownell, G. M., B.Sc. Asst.

German
Heinzelmann, J. H., B.A. Ill., Ph.D. Chic. Prof.
Jones, Mrs. Anna C. A. Asst.

History
Martin, C. B., M.A. N. Bruns., M.A., B.Litt. Ox. Prof.
Harvey, D. C., B.A. Dal., M.A. Ox. Asst. Prof.
Howe, J. E., B.A. Yale, M.A. Acad. Lectr.
MacDonnell, Mrs. U. N., M.A., Ph.D. Lectr.

Law, v. *infra*—Affiliated Colleges

Mathematics
MacLean, N. B., M.A. Tor., Ph.D. Chic. Prof.
Wilson, N. R., M.A. Tor., Ph.D. Chic. Prof.
Warren, L. A. H., M.A. Qu., Ph.D. Chic. Asst. Prof.
Tier, W., M.A. Tor., Dean of Fac. of Arts Asst. Prof.
Nowlan, F. S., M.A. Harv. Asst. Prof.
1 Fellow.

Pharmacy [Prof.
Bletcher, H. E., B.Sc. (Phar.)
1 Asst.

Philosophy
Lodge, R. C., M.A. Ox. Prof.
Wright, H. W., B.A., Ph.D. Corn. Prof.

Physics [Prof.
Allen, Frank, M.A. N. Bruns. & Corn., Ph.D. Corn., LL.D.
McClung, R. K., B.A. Camb., M.A., D.Sc. McG. Asst. Prof.
Young, J. F. T., M.A. Tor., Ph.D. Tor. Asst. Prof.
3 Demrs.

Physiology, v. Medicine

Political Economy
Clark, A. B., M.A. Edin. Prof.
Jones, R. F., M.A. Liv. Asst. Prof.
Elliott, G. A., B.A. Asst.

Zoology
O'Donoghue, C. H., D.Sc. Lond., F.Z.S. Prof.
Riley, C. F. C., M.A. Doane, B.S. Mich., M.S. Ill. Asst. Prof.
Bulman, Eileen, M.A. Col., B.Sc. Lectr.
3 Student Demrs.

Agriculture

[at Manitoba Agricultural College]

McKillican, W. C., B.S.A. Dean.

Agricultural Engineering
Shanks, G. L., B.S.A. Prof.

Animal Husbandry
Wood, G. W., B.S.A. Prof.
Brown, J. M., B.S.A. Asst. Prof.
Sommerfeld, H. B., M.Sc. Asst. Prof.

Animal Pathology [Prof.
Savage, Alfred, B.S.A., D.V.M.

Bacteriology
Lee, C. H., M.A. Prof.
Shutt, D. B., B.S.A. Asst. Prof.

Biology
Jackson, V. W., B.A., M.Sc. Prof.

Chemistry
Clevenger, C. B., Ph.D. (Agr. Chem.) Prof.
Geddes, W. F., B.S.A. Asst. Prof.
Lipsett, S. G., B.Sc. Asst.

Clothing and Textiles
Groff, Clara Louise, B.S. Lectr.
McFadden, Eleanor G. Lectr.

Dairy Husbandry
Brown, R. W., B.S.A. Prof.
James, N., M.S. Lectr.

Education
Moxon, Mary C., Ph.B. Lectr.

English
Sproule, G. A., B.A. Prof.
Hopper, C. R., B.A. Asst. Prof.

Entomology
Mitchener, A. V., B.A., B.S.A. Asst. Prof.

Farm Management
Grant, H. C., B.S.A. Asst. Prof.

Field Husbandry
Harrison, T. J., B.S.A. Prof.
Southworth, W., M.S.A., F.L.S. Prof.
Ellis, J. H., B.S.A. Asst. Prof.
Wiener, W. T. G., M.S. Asst. Prof.

Home Economics [Director.
Duncan, Mrs. L. C., Ph.B.
Roberts, Ina L., B.A. Lectr.

Horticulture and Forestry
Brodrick, F. W., B.S.A. Prof.

Household Art
South, Mrs. Jean Lectr.

Nutrition
Hiltz, Mary C., B.S. Asst. Prof.

Physics
Lee, S. C., M.A. Prof.

Plant Pathology
Bisby, G. R., B.S., Ph.D. Prof.

Poultry Husbandry
Herner, M. C., B.S.A. Prof.
Hutt, F. B., B.S.A. Lectr.

Rural Sociology and Civics
Murchie, R. W., M.A. Asst. Prof.
6 Instrs. and an extension service staff of 6.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology and Hygiene
Douglas, A. J., B.A., M.D., C.M. (Hygiene) Prof.
Cadham, F. T., B.A., M.D. (B. and Serology) Asst. Prof.
Fraser, M. S., B.A., M.D., C.M. (Hygiene) Lectr.

McCowan, W. P., B.A., M.B. Lectr. (Bact.).
2 Demrs.

Gynæcology
Simpson, R. M., M.D., C.M., L.R.C.P. Lond., M.R.C.S. Eng., F.A.C.S. Prof.
Mackay, D. S., O.B.E., M.D., C.M., F.R.C.S. Edin., F.A.C.S. (Clin. G.) Assoc Prof.
Pullar, J., B.A., M.D., C.M. Assoc. Prof.
McQueen, J. D., D.S.O., M.D., C.M., F.A.C.S. Lectr. in G. and Assoc. Prof. of *Obstetrics.*
1 Demr.

Hygiene, v. Bacteriology

Laryngology and Otology
Prowse, S. W., B.A., M.D. Edin., F.R.C.S. Edin., F.A.C.S., Dean of Fac. Prof.
Fletcher, G. W., M.D., F.A.C.S. Assoc. Prof.
Leishman, A., M.D. Assoc. Prof.
Washington, E. J., M.D. Assoc. Prof.
1 Demr. in O.

Materia Medica and Pharmacy
Horner, A. E., Ph.C. Lectr.

Medicine and Clinical Medicine
Montgomery, E. W., M.A., M.D., C.M., F.A.C.P. Prof. of Clin. Med.

Assoc. Profs. of Med. :
Burridge, A. J., M.D., F.A.C.P. (Therap.).
Davidson, J. R., B.A., M.D., C.M.
Hunter, C., M.A., M.D., M.R.C.P. Lond. (Therap.).
Hart, F., M.D , C.M., M.R.C.S., L.R.C.P.
Rogers, W., B.A., M.D., C.M., F.A.C.P.
Gilmour, C. R., M.D., C.M.
Moorhead, E. S., M.B., B.Ch. Dub.
Young, F. A., O.B.E., B.A., M.B., F.A.C.P.
Chestnut, W., M.D., C.M.
Moody, A. W., M.D., C.M., F.A.C.P.

Asst. Profs. of Med. :
Alexander, A. B., B.A., M.D.
Stewart, D. A., B.A., M.D.
Ferguson, R. G., B.A., M.D.
Mathers, A. T., M.D., C.M. (Psychiatry).
Warner, N. W., M.D.
Adamson, J. D., M.D.

Lectrs. in Med. :
Benner, F., M.D., C.M.
Campbell, S., C.M.G., M.D.
Murdoff, H. M., M.D., F.A.C.P.
Macdonald, D. A., M.D.
Orr, John, M.D.
Olson, B. H., B.A., M.D.
McMillan, J. C., M.D , F.A.C.P. Lectr. in Roentgenology. and Electro-therapy.
Mackay, H., M.D., C.M. (Dermatology)
Davidson, A. M., M.D. (Dermatology)
6 Demrs.

Medical Jurisprudence
Cameron, H. M., B.A., M.D. Lectr.

Obstetrics, v. also Gyn.
McCalman, D. H., B.A., M.D., C.M. Prof.
Bjornson, O., M.D., C.M., F.A.C.S. Assoc. Prof.
Mitchell, R. B., B.A., M D., C.M., F.A.C.S. Assoc. Prof.

Lectrs. in Clin. Obstet. :
Coulter, J. E., M.D., C.M., F.A.C.S.
Campbell, W. G., M.D., C.M.
Abbott, W. F., M.C., B.A., M.D., C.M.
Allum, A. W., M.D.
McGuinness, F. G., M.D.
Arthur, C. L. T., M.D.

Ophthalmology
Smith, W. H., M.A., M.D., C.M., F.A.C.S. Prof.

Bell, T. H., M.C., M.D., C.M., F.A.C.S. Assoc. Prof.
Bell, P. G., B.A., M.D., F.A.C.S. Assoc. Prof.
Stefansson, J., M.D. Lectr.

Pathology

Boyd, W., M.D., M.R.C.P. Edin., Dipl. Psych. Prof.
Nicholson, D., M.D., C.M., M.R.C.S. Eng. Asst. Prof.

Pediatrics

Rorke, R. F., M.D., C.M. Assoc. Prof.
MacArthur, C., M.D. Lectr.
Norton, E. L., M.B., B.Sc. Lond. Lectr.
2 Clin. Demrs.

Physiology and Pharmacology

Moorhouse, V. H. K., M.C., B.A., M.B. Tor. Prof.
Austmann, K. J., M.A., M.D. Asst. Prof.
Lougheed, M. S., B.A., M.D., C.M., B.Sc. Ox. Lectr.
Mackersie, W. G., M.B., B.Sc. (Med.) Tor. Lectr.

Surgery and Clinical Surgery

Halpenny, J., M.A., M.D., C.M., F.A.C.S. Prof.

Assoc. Profs. of Clin. Surg.:

Brandson, B. J., B.A., M.D., C.M., F.A.C.S.
Campbell, A. M., B.A., M.D., C.M.
Fletcher, R. D., M.A., M.D., C.M., F.A.C.S. (Urology).
Galloway, H. P. H., M.D., C.M., F.A.C.S. (Orthop.).
Gibson, A., M.B., Ch.B., F.R.C.S., F.A.C.S. (Orthop.; also Lectr. in Applied *Anatomy*).
Gunn, J. A., C.B., O.B.E., B.A., M.D., F.A.C.S.
Lehmann, J. E., M.D., F.A.C.S.
Maclean, N. J., M.D., F.A.C.S.
McKenty, J., M.D., C.M., F.A.C.S.
Webster, W., M.D., C.M. (Anæsthetics).
Elkin, S. J., M.D., C.M.
Waugh, O. S., M.D., C.M., F.A.C.S.

Lectrs. in Clin. Surg.:

Gardner, W. A., B.A., M.D., C.M., F.A.C.S. (Orthop.).
Gorrell, J. A., B.A., M.D., C.M., F.A.C.S.
Hamilton, T. G., M.D., F.A.C.S.
Mann, W. L., B.A., M.D., C.M.
McIvor, N. K., M.D., F.A.C.S.
Musgrove, W. W., M.D., C.M., F.A.C.S.
Murray, A. A., M.D., F.A.C.S. (Orthop.).

Lectrs. in Surg.:

McEachern, J. D., M.D.
McIntyre, D. F., M.D, F.A.C.S.
Fahrni, G. S., M.D., C.M., F.A.C.S.
3 Demrs.

Therapeutics, v. Medicine

AFFILIATED COLLEGES represented on the Council, the first four having power to confer degrees in Divinity:

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—H. Bourque, S.J. (Building destroyed by fire, Nov. 25, 1922.)

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Warden—Rev. G. A. Wells, C.M.G., B.A.; Registrar—W. Burman, B.A.

MANITOBA COLLEGE, Winnipeg (Presb. Ch. in Canada). Principal—John MacKay, M.A., D.D.; Registrar—Prof. J. Dick Fleming, Ph.D.

WESLEY COLLEGE, Winnipeg (Meth. Ch. in Canada). Principal—J. H. Riddell, D.D., LL.D.; Registrar—A. Stewart Cummings, B.A.

MANITOBA LAW SCHOOL, Winnipeg. Chairman of Trustees—Hon. H. A.

Robson, LL.D.; Dean—J. T. Thorson, B.A. Ox., LL.B.; Recorder—R. J. Russell.

GENERAL INFORMATION (v. also p. 322)

Established in 1877 mainly as an examining and degree-conferring body, the Univ. was in 1900 empowered to give instruction. In 1917 a Board of Governors, appointed by the Lieut.-Govr., was constituted, and the functions of the Univ. Council, until then the governing body and composed largely of representatives of the affiliated Colleges, were limited to general charge of the academic work. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

Winnipeg, the capital of Manitoba, with its environs, including the neighbouring city of St. Boniface, has a population of over 270,000. The Univ. at present occupies a site in the heart of the city, but a new site on the outskirts has been selected. The Agric. Coll. at Fort Garry, 7 miles distant, has a farm of 450 acres.

LIBRARY, 38,000 vols.; 439 periodicals received. In the Medical building is housed the library, 2000 vols. of the Manitoba C.P.S. LABORATORIES: Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. MUSEUMS: Anat., Embry., Bot., Geol., Path. HOSPITALS available for clinics: 2 general (1000 beds) and several special, including tuberculosis.

FACULTIES. (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 5 options), Science, and Phm. (2) Medicine. (3) Engineering and Archit. (4) Agriculture and Home Economics. Other subjects of Arts course and Law are taught in the affiliated Colls.

MATRICULATION examns. are conducted in June by the Provincial Educ. Dept. and in Sept. by the Univ. It is not necessary to pass completely at one time, and a candidate may enter on a Degree course, except in Law or Med., as a conditioned student. The subjects of Matricn. examn. for Arts or Science courses are English, Hist., Maths., Latin or Greek or French or German; a second language or 2 of the following—Physics, Chem., Genl. Science I., Genl. Science II.; a third language or 2 sciences not already taken, or 1 science not already taken with Home Econ. or Indust. Arts or Music or Agric. or Comml. work. Exemption is allowed from examination for Matricn. standing in the subjects of Part I. (Grades IX. and X.) Matricn. to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals. Entrance requirements for Medicine are clear standing of two pre-medical years in Arts and Science; for Law standing of 2nd year in Arts, with Latin to the end, at least, of the 1st yr.; and for Engineering standing of one pre-engineering year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E.), B.Sc. (Phar.), B.Arch.; 3 yrs., following 2nd yr. in Arts or its equivalent—LL.B.; 5 yrs., following 2 pre-medical yrs.—M.D.; 5 yrs.—B.A. (Hons.), B.Sc. (Hons.), B.S.A., B.H.Ec. Graduates in Med. of at least 2 yrs.' standing with certain

prescribed training and experience may obtain C.M. on passing written, oral, and practical examn., and presenting a satisfactory thesis.

ATTENDANCE at lectures is obligatory for all except extra-mural students. Extra-mural students may not take courses in Med., Sc., Arch., or Engin., or any course in Arts involving oral, practical, or lab. work, nor may they appear at examns. without permission of the Bd. of Studies. Extra-mural registration in Arts is limited to students resident in Manitoba, and a minimum of 1 yr.'s attendance at this or another approved Univ. is exacted before the B.A. is conferred.

The 1st yr. of the B.A. course includes 5 subjects, of which English, Maths., and a foreign lang. (already taken for matricn.) are compulsory; the 2nd—5, including English, Hist., and the same lang. One Science subject must be taken in the 1st or 2nd yr. unless both Physics and Chem. were taken for matricn.

The M.A. may be obtained by an extra year of full-time study under the direction of a committee of instructors. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr's. grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or that of Elect. Engin., an examn. and a thesis. While taking the LL.B. course a student may simultaneously obtain the Law Society's qualification for practice. Extra-mural courses may be taken by law students residing in Manitoba elsewhere than in Winnipeg or environs, and by graduates in Arts of an approved Univ. residing elsewhere. The LL.D. is honorary.

In the B.Sc. Engineering courses summer work and thesis relating thereto are required.

2 yrs.' service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise.

DIPLOMAS. Pharmaceutical Chemistry (2 yrs.' course); Agriculture (3 yrs.). In *Dentistry* the Univ. is the sole examining body in the province. The Univ. conducts examns. for admission to the Man. Assocn. of Graduate *Nurses*, to the practice of *Accountancy* and membership of the Inst. C.A. of Manitoba, to the practice of *Architecture* and membership of the Man. Association of Archts.; also qualifying examns. for the Man. Civil Service.

FEES. Tuition and examn. in Arts and Sc., $60 p.a.; Engin. and Arch., $90; Phm.Dipl. course, $85; Degree course (4 yrs.), $60, $85, $85, $85; Med., $160; Law, $83. Licence to practise Med., $100. Agr.Dipl. course, $38; Degree course, $38 (1st and 2nd yrs.) and $63 (3rd, 4th and 5th yrs.); Home Economics, Degree course, $38, $38, $48, $48, $48.

SCHOLARSHIPS for graduates: $600 p.a. for 2 yrs., open to graduates in special courses in Arts, in Med., or Engin., every alternate year, tenable at some other seat of learning; Fellowship, $500 awarded annually in Hist. and Pol. Sc.; Research Fellowship, $1500 annually in Sc.

RESIDENCE. Hostels at all affiliated Arts Colls. and Agr. Coll.

INTERCHANGE of teachers for a few days and conference annually with Univs. of N. Dakota, Sask., and Alberta.

UNIVERSITY EXTENSION. (1) Winter Evening Business courses in Acctcy., Comml. Law, Business English, Life Insurance, etc., given partly by members of regular Univ. staff. (2) Short courses of lectures, conferences, and class work for Retail Merchants, at Winnipeg and Brandon. (3) Short courses in Med. and Surg. for practitioners. (4) Popular lectures in numerous centres. (5) Radio popular lectures, weekly. (6) Course for Public Health nurses. (7) Summer School.

PUBLICATIONS. *Calendars* (July), General, Matricn., and several faculties, free; *Manitoban* (students' paper), weekly; *Annual Report*, Historical notes (1877–1917); *Inaugural and Convocation Addresses*; *Final Year Examn. Papers*, 50 c.

THE YEAR 1923–24

BENEFACTIONS. Govt. Grant, $343,000.

NEW POSTS. Assoc. Prof. of Obstetrics; Lectrs. in Bio-Chem., Chem., Bact., Med., Obst., Physiol., Pharmacol.

OTHER DEVELOPMENTS. Manit. Agric. Coll. was amalgamated with the Univ. and a Faculty of Agr. was created. Courses in Religious Educn. were established.

RETIREMENTS. L. I. Johnstone and V. R. Davies (Engineering), C. D. Miller (Physics), succeeded by J. F. T. Young from Toronto, Lily A. McCullough (Pol. Econ.), A. Bercovitch (Gynæc.).

HONORARY DEGREES. *LL.D.*—Profs. F. Allen, A. H. R. Buller, M. A. Parker.

OTHER DEGREES. B.A., 180 (including women—97); M.A, 7 (w.—5); LL.B., 21 (w.—1); M.D., 52 (w.—2); C.M., 2; B.Sc., 21 (w.—2); B.Sc. (C.E.), 12; B.Sc. (E.E.), 15; B.Sc. (Phm.), 1; B.Sc. (H.Ec.), 8 (women); Dip.H.Ec., 10 (women); B.S.A., 16; M.Sc., 6 (w.—1); B.Arch., 6; Dipl.Phm., 28.

STUDENTS. Graduates: Arts and Sc., 51 (including women—19); Med., 20. Undergrads., full-time: Arts and Sc., 1268 (w.—532); Phm., 49; Med., 263 (w.—20); Law, 59 (w.—2); Engin., 134; Architecture, 9; Agriculture, 67; in Diploma courses, 58; Home Economics (women), 68; in Diploma courses, 30; part-time: Arts and Science, 41 (w.—24); Med., 13; Architecture, 3.

UNIV. EXTENSION. Total enrolment, 850. Winter evening Business courses, 174 students (13 instrs.). Popular lectures in Winnipeg, 25; in over 50 other centres, 162. Broadcasted popular lectures, 29.

MONTREAL UNIVERSITY

PATRON—S.E. Cardinal G. VAN ROSSUM.

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal; ACTING—S.G. Mgr. GEORGES GAUTHIER, Archbishop of Tarona, Apostolic Administrator, O. L. d'H.

RECTOR—Mgr. V.-JOSEPH PIETTE, P.A.

PRESIDENT—Sir LOMER GOUIN, LL.D., K.C.M.G.

PRESIDENT OF THE EXECUTIVE COMMITTEE—Hon. F. L. BÉIQUE, LL.D.

VICE-RECTOR—Canon E. CHARTIER, M. ès A., L. ès L., D Ph.

SECRETARY-GENERAL—E. MONTPETIT, B.A., LL.D., K.C., D.S.P. Paris, membre de l'Ac. roy. lang. et litt. françaises de Belgique, Chev. O. Léop., chev. L. d'H.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A.

PROFESSORS, LECTURERS, ETC., September 22, 1924

Agriculture, v. Affiliated Instns.

Anatomy, v. also Med. Histology

Mignault, L. D., M.D. Prof.
Delorme, L. N., M.D. Prof.
Latreille, E., M.D. (A. Path.) Prof.
Virolle, E., M.D. Lectr.

Applied Science, v. Affiliated Instns.

Art, History of

Lagacé, J. B., M.A. Prof.

Biology [Prof.

Dalbis, L. J., D. ès Sc. Paris

Botany

Victorin, Marie, D.Sc. Prof.

Chemistry, v. also Affiliated Instns.

Baril, G. H., M.D. Prof.
Morin, L. J., M.A., L. ès Sc. Paris Prof.*
Nadeau, H., L. ès Sc. Paris Lectr.
Flahaut, J., L. ès Sc. Lille Lectr.
Riou, P. Lectr.

Classics

Chartier, Can. E., M. ès A., L. ès L. Paris Prof.*
Dombrowski, H., Ag. des L. Paris (Prof. of French Lit.) Prof.
Maurice, O., D.Th., L. ès L. Paris Prof.

Commerce, v. Affiliated Instns.

Dental Science

Dubeau, E., D.C.D. Prof.*
Nolin, J., D C.D. Prof.
Gendreau, J. G. A., D.C.D. Prof.
Duhamel, J. A., M.D. Prof.
Dufresne, G. A. H., M.D. Prof.
10 Profs. agrégés, 12 Clinicians and Demrs.

Economics, v. Social Sciences

Engineering, v. Affiliated Instns.

English Lang. and Lit.

Atherton, W., LL.D. Prof.

French Literature, v. Classics

Geography [Prof.

Tessier-Lavigne, Y., L.Sc. Soc.

Geology, v. also Affiliated Instns.

Mailhot, A., I.C. Prof.

Hebrew, v. Theol.

History

Désy, J., LL.L., D.S.P. Paris Prof. of Comml. and Genl. H.

* Dean of the Faculty.

Groulx, L., M.A., D.Th. Prof.
..... Lectr.

Journalism, v. Social Sc.

Mathematics

Beaupré, V. E., B.A., I.C. Prof.
Léveillé, A., B.A. Lond. Prof.

Medicine, v. *infra*

Mineralogy, v. Applied Sc.

Modern Languages

Jasmin, H., D.Ph., D.Th. Prof.

Music

Charbonneau, J. N.
Head of Schola Cantorum.

Philosophy

Perrin, L., D.Th., D.Ph., D.D.C., M.A. Prof.*
Pineault, L., D.Th., D.Ph., M.A. Prof.
Forest, C., Ph.M. Prof.
Gauthier, O., D.Th., Ph.D. Prof.
Jasmin, L.-D., B.A., Ph.D., LL.D. Prof.
Lamarche, A., D.Th., D.Ph. Prof.
Vanier, G., B.A., LL.L. Prof.
Hébert, E., D.Th., D.Ph. Prof.

Physics

Gendreau, E., L. ès Sc. Paris, Ph.D., M.D. Prof.
Demers, J., B.A. Lectr.

Physiology

Asselin, E. G., M.D. Prof.

Social Sciences, Economics, and Politics, v. also Geog., Hist., and Law

Montpetit, E., K.C., LL.D., D.S.P. Paris.
Prof. of Econ., Pub. Finance and Statistics, Director of the School.
Baudouin, J. A., M.D. Prof.
Doré, V. Prof.
Vanier, G., LL.L. Prof.
Pelletier, G., LL.L. (Journalism) Prof.
Fauteux, N. (Journalism) Prof.
Rinfret, F. (Journalism) Prof.
Leduc, A., LL.L. (Journalism) Prof.
Saint-Pierre, A. Lectr.
4 Profs. agrégés.

Theology

Allard, R., D.Th. Prof.
Belcourt, E. Prof.
Dorvaux, J. E., D.Th., D.Dr. Can. Prof.
Dubeau, A. Prof.
Duchein, F., D.Th. Prof.
Filion, E. Prof.
Gattet, B. M., D.Th. Prof.
Gauthier, H., D.Th. Prof.
Jeannotte, H. J., D.Th. Prof.
Lesieur, R. Prof.
McShane, G., D.Th. Prof.
Many, V., D.Th. (Hebrew) Prof.
Savignac, E., D.Th. Prof.
Urique, A. P., D.Th.* Prof.
Yelle, E. Prof.

Veterinary Science

Daubigny, T., M.V.
Director of the School & Prof.
Généreux, D., M.V. Prof.
Lorrain, L. P. H., M.V. Prof.
Dauth, A., M.V. Prof.
6 Profs. agrégés.

Law

Administrative and Munic. L.

Baudouin, G., LL.D. Prof.

Civil L.

Demers, Hon. L. P., LL.D., J. of High Ct. Prof.
Lafontaine, Hon. E., LL.D., Ch. J. Ct. of App. Prof.

Civil Procedure [Prof.

Taschereau, R., LL.D., K.C.
Genest, R., LL.D. Lectr.

Comml. and Marit. L.

Perrault, A., LL.D., K.C. Prof.

Const. L.

Cousineau, Hon. P., LL.D., J. of High Ct. Prof.

an of the Faculty.

Social Sciences, Economics
Montpetit, E., B.A., LL.D., K.C., D.S.P. Paris — Prof.

Criminal L. [Prof.
Morin, L. J. S., LL.D., K.C.

Financ., Comml., and Indust. L.
Pérodeau, Hon. N., LL.D. — Prof.
Gouin, L. M., LL.D. — Lectr.
Gérin-Lajoie, A., LL.D. — Lectr.
Faribault, R., LL.L. — Lectr.

Internat. L. and Hist. of L.
Lemieux, Hon. R., LL.D., K.C. — Prof.

Notarial Procedure
Morin, V., LL.D. — Prof.

Roman L.
Beaulieu, E., LL.D., K.C. — Prof.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology
Bernier, A., M.D. — Prof.
Aubry, H., M.D. — Lectr.

Contagious Diseases
Leduc, J., M.D. — Prof.
Delvecchio, P., M.D. — Lectr.

Deontology and History of Med.
Fortier, L. E., M.D. — Prof.

Dermatology and Syph.
Décarie, J. D., M.D. — Prof.
Archambault, G., M.D. — Prof.
Toupin, J. R., M.D. — Lectr.

Gynæcology
Harwood, L. de L., M.D. — Prof.*
Ethier, A., M.D. — Prof.
Trudeau, R., M.D. — Lectr.

Histology and Path. Anat.
Dalbis, L. J., D.S. Paris — Prof.
Jutras, L., M.D. — Lectr.

Hygiene
Valin, N., M.D. — Prof.
Baudouin, J. A., M.D. — Prof.

Legal Med.
Derome, G. W., M.D. — Prof.

Medicine
Guérin, J. J., M.D., M.Ch., LL.D. Dub., K.C.St.Gr. — Prof.
Benoit, E. P., M.D. — Prof.
Dubé, E., M.D. — Prof.
Lesage, A., M.D. (M. and Path.) — Prof.
Bruneau, T., M.D. — Lectr.
Lebel, H., M.D. — Lectr.
Léger, A., M.D. — Lectr. (M. & Path.).
Robichaud, P., M.D. — Lectr.
Riopelle, P. E., M.D. — Lectr.
Hamel, G., M.D. — Lectr.
Hébert, R., M.D. — Lectr.
Rouleau, A., M.D. — Lectr.
Verner, L., M.D. — Lectr.

Mental Diseases
Tétreault, A., M.D. — Prof.
Lefebvre de Bellefeuille, G., M.D. — Lectr.

Neurology
Prévost, A., M.D. — Prof.

Obstetrics
De Cotret, E. A. R., M.D. — Prof.
Langevin, S., M.D. — Lectr.

Ophth., Ot. and Rhino-Lar.
Foucher, A. A., M.D. — Prof.
Boulet, R., M.D. — Lectr.

Pathology and Clin. Surg., v. also Med.
Parizeau, T., M.D. — Prof.
Bourgeois, B., M.D. — Prof.
Bernier, A., M.D. — Prof.

Pediatrics
Masson, R., M.D. — Prof.
Ferron, A., M.D. — Lectr.

Pharmacy
Contant, J., D.Phm. President of the School & — Prof.
Lecours, J. E. W., L.Phm. — Prof.
Laurence, A. J., L.Phm. Sec.-Dir. of the School & — Prof.
Lanctot, H., L.Phm. — Prof.
Vadboncœur, E., L.Phm. — Prof.
Quintin, A. D., L.Phm. — Prof.
Boutin, J., L.Phm. — Prof.
Flahaut, J., L. ès S. Lille. — Prof.

* Dean of the Faculty.

Pilon, H., L.Phm.	Prof.
6 Profs. agrégés.	
Phthisiotherapy	
.....	Prof.
Jarry, A., M.D.	Lectr.
Verschelden, L., M.D.	Lectr.
Propædeutics	
Hébert, R., M.D.	Prof.
Radiology, etc.	
Panneton, J. E., M.D.	Prof.
Parıseau, L., M.D.	Lectr.
Surgery, v. also Path.	
Mercier, O. F., M.D.	Prof.
Marien, A., M.D.	Prof.
Ethier, E., M.D.	Prof.
Saint-Jacques, E., M.D.	Prof.
Hingston, D., M.D.	Lectr.
Demers, A., M.D.	Lectr.
Gagnon, A., M.D.	Lectr.
Dufresne, E., M.D.	Lectr.
Derome, A., M.D.	Lectr.
Saint-Pierre, A., M.D.	Lectr.
Derome, W., M.D.	Lectr.
Paré, A., M.D.	Lectr.
Roy, J. N., M.D.	Lectr.
Blagdon, L., M.D.	Lectr.
Rhéaume, P. Z., M.D.	Prof.
Therapeutics	
Masson, D., M.D.	Prof.
Fortier, L. E., M.D.	Prof.
Bourgoin, J., M.D.	Prof.
Mignault, G. E., M.D.	Lectr.
Toxicology	
Derome, W., M.D.	Prof.

AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. Director, R. P. Leopold. 16 other Profs. of *Ag. Botany*; *Animal Biology and Hygiene*; *An. Industry*; *An. Pathology and Bacteriology*; *Apiculture*; *Arboriculture*; *Aviculture*; *Buildings and Accounts*; *Chem., Geol. and Mineral*; *Fruit and Flower Gardening*; *Kitchen Gardening*; *Large-scale Farming and Machinery*; *Maths.*; *Physics and Drawing*; *Soils*; *Zoology and Rural Economy*. 8 other Supts. of Practical Work.

APPLIED SCIENCE, including Engineering and Architecture. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. Principal, A. Boyer. 24 Profs. of *Architecture, Chemistry, Drawing, Electricity, Electrotechnics, Electrochem., Electro-met., Engineering—Civil, Elec., Mech. and Sanit., Geodesy, Geology, Geometry, Heating, Hydraulics, Industrial Chem., Industrial Legisln., Indust. Technology, Maths., Metallurgy, Mineralogy, Mining, Physics, Railways, Surveying, Thermodynamics, Ventilation.* 14 Hony. Profs.

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt. in 1907. Director, Prof. H. Laureys. 17 other Profs. of *Accountancy, Banking, Chemistry, Customs Legislation, Economics, English, French, Geography, History, Insurance, Italian, Law, Maths., Math. Physics, Publicity.* 3 Hony. Profs.

CONSERVATOIRE NATIONAL DE MUSIQUE. Recently affiliated.

RADIUM INSTITUTE, affiliated with L'Institut Pasteur (Paris).

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. Ten Colleges for boys are affiliated to the Univ. under conditions providing for a 4 yrs.' High School course followed by a 4 yrs.' College or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The École d'enseignement secondaire pour les Jeunes Filles provides similar College courses for girls organized in French, English,

and Special (Arts d'Agrément, Commerce, Pol. and Soc. Econ., Domestic Science) sections.

GENERAL INFORMATION (v. also p. 322)

Established, as a branch of Laval, Quebec, in 1878, with Faculties of Theology and Law, to which were added Medicine in 1879 and Arts in 1887. Since 1889 this Institution has been practically independent of, though receiving its degrees from, Quebec, and on Feb. 14, 1920, it was incorporated under its present name by an Act of the Provl. Legislature. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical, and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: $4,000,000 from a national subscription (1920), $1,000,000 from the Provl Govt., and $1,000,000 from the Seminary of St. Sulpice.

LIBRARY, 125,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

FACULTIES. Theol. (constituted by the Grand Seminary of St. Sulpice); Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Vet. Med., Pharmacy, and Social, Econ. and Polit. Science.

DEGREES AND DIPLOMAS. Courses in the incorporated and affild. institns. include—a 4 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 3 yrs. in the Éc. de Méd. Comp. for the D. en Méd.Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the B. en Agr. and D. en Sc.Agr.; 3 yrs. in the Éc. des H.E. Comm. for a Diploma.

THE YEAR 1923–24

IMPORTANT OCCURRENCES. A campus of 150 acres on the Mount Royal was acquired. *Honorary Degrees* conferred on L.-M. Pautrier (Medicine) of Strasbourg; Claude Regaud (Medicine) of Paris; Mgr. Antonin Nautel (Letters).

NUMBER OF STUDENTS. Theol., 305; Philos., 212; Law, 134; Med., 279; Pure Sciences, 81; Letters, 200; Dent. Chir., 193; Vet. Surg., 19; Pharm., 125; Soc. Sc., 139; Engin., 194; Comm., 406; Agr., 106; Inst. d'Ens. Mod., 177; Music, 987; Household Sc., 290.

Holders of *Travelling Scholarships*: Oxford: R. Brossard; Paris: J. Derome, J. Bruchesi, A. Doyon, A. Viau, R. Robert, M. Fauteux, P. E. Renaud, E. Lapierre.

DEGREES CONFERRED. In Theol., 0; Law, 34; Med., 100 (including women—21); Dent. Surg., 65; Sciences, 49; Letters, 54 (women); Philos., 0; Vet., 8; Phm., 25; Soc. and Polit. Sc., 84 (including women—79); Ec. Polyt., 21; Agr., 5; Comm., 10; Classical Colls., 203 (women); Music, 275 (women); Household Sc., 138 (women).

MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

CHAIRMAN OF THE BOARD OF REGENTS—B. C. BORDEN, D.D., D.C.L.
PRESIDENT OF THE SENATE—G. J. TRUEMAN, M.A., Ph.D. (Col.).
SECRETARY AND LIBRARIAN—Prof. F. W. W. DES BARRES, B.A.
REGISTRAR—Prof. W. M. TWEEDIE, M.A.

PROFESSORS, LECTURERS, ETC., November 14, 1924

Biology [Prof.
Fraser, R., B.S. Guelph., M.A. Tor.
1 Asst.

Chemistry
Bigelow, H. E., Ph.D. Harv. Prof.
3 Assts.

Classics [Wood Prof.
Cohoon, J. W., Ph.D. Princeton

Commerce and Economics
Line, J., M.A. Tor., B.D., S.T.D.

Education [Prof.
Trueman, G. J., M.A., Ph.D. Col.

Engineering
McKiel, H. W., B.A., B.Sc. Qu. (Mech.E.) Prof.
West, F. L., M.A., B.Sc. McG. Prof.
2 Assts.

English Lang. and Lit.
Tweedie, W. M., M.A. Lond. Allison Prof.

French and Greek [Prof.
Delano, C. C., Ph.D. New York

Mathematics [Prof.
Hunton, S. W., B.A. Lond., M.A.

Philosophy
Liddy, R. B., B.D., Ph.D. Tor. Massey Prof.

Physics
MacGregor, D. G., B.A. Ox. Prof.
Dawson, J. C., B.Sc. N.S. Tech., B.Sc. Instr.
1 Asst.

Theology
Line, J., M.A. Tor., S.T.D. Wes. Montreal. Allison Prof.
Watson, W. G., B.A. Tor., B.D. Victoria (Hebrew and Engl. Bible) Prof.
Des Barres, F. W. W., B.A. (Church Hist.) Prof.

GENERAL INFORMATION (v. also p. 322)

The METHODIST CHURCH of Canada controls the administration, which is, however, conducted on strictly non-sectarian principles; a considerable number of the students belong to other religious denominations. The Univ. is named after C. F. Allison, founder (in 1843) of "Mt. Allison Wesleyan Academy," the Trustees of which were, by an Act of the Legislature of N.B. in 1858, authorized to establish as a degree-conferring institution, "Mt. Allison Wesleyan College." This name was changed in 1886 to "Univ. of Mt. Allison Coll." and in 1913 to "Mt. Allison Univ." In 1903 the McClelan School of Applied Science was opened in the Univ.

LIBRARY, 15,000 vols. Engineering WORKSHOPS with gasoline engine, etc.

FACULTIES. Arts, Science, Theology, School of Applied Science.

DEGREE COURSES. 3 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. "Senior Matricn." Certifs. (*e.g.* N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course; Prince of Wales Coll. High Honour Diploma to 3rd yr. V. also p. 326.

HIGHER DEGREES. Open to B.A. of 1 yr.'s standing, M.A.; 2 yrs.', B.D.; to B.Sc. of 1 yr.'s standing, M.Sc.; Honorary, D.D., LL.D., D.C.L.

CERTIFICATES. Applied Science, 2 yrs.' course (may be taken as part of 3rd and 4th yrs. of B.A. course); Finance and Com., 2 yrs.; Probationers for Ministry, 3 yrs.

RECOGNITION by other Univs. (v. p. 360).

FEES, tuition and registration, annual: Arts, $85; Engin., $120.

RESIDENCE. Accommodation in the Univ. for 130 men and 60 women students. Board and lodging, $249 p.a.

PUBLICATIONS. *Calendar* (July); *Argosy* (students'), and *Mt. Allison Record*, monthly.

THE YEAR 1923–24

NUMBER OF STUDENTS. Full-time, preparing for Bachelorship or Diploma, 187 (including women, 48); for M.A. or M.Sc., 6; Occasional or Special, 75 (women, 61).

HONORARY DEGREES CONFERRED. *LL.D.*—Dean Frank D. Adams (McGill); Prof. R. C. Archibald (Brown); President A. S. Mackenzie (Dalhousie); J. Clarence Webster, M.D. *D.D.*—D. B. Hemmern; S. Howard.

OTHER DEGREES. B.A., 27 (including women, 11); B.Sc., 7; M.A., 2; Engin. Certif., 11; Theol. Certif., 3.

UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

VISITOR ON BEHALF OF H.M. THE KING—THE LIEUT.-GOVERNOR OF NEW BRUNSWICK.

CHANCELLOR—C. C. JONES, M.A., Ph.D., LL.D.

PRESIDENT OF THE SENATE—W. S. CARTER, M.A., LL.D., D.C.L.

REGISTRAR—HAVELOCK COY, M.A.

PROFESSORS AND LECTURERS, September 1924

Chemistry [Prof.
Cameron, A., M.A., B.Sc. St. And.

Classics and Anc. Hist.
Raymond, W. T., B.A., B.A. Harv., LL.D. Dal. Prof.

Engineering, v. also Phys.
Turner, E. O., S.B. Mass. I. Tech. (Civil E.) Prof.
Stephens, J., M.A., M.A.I. Dub., M.I.C.E.I. (Mech. E. and Drawing) Prof.
Claridge, B. E., Ph.B., M.F. Yale (Forest Engineering) Prof.

English and Mod. Hist.
Harvey, E. L., B.A. Ox. Prof.

Forestry
Webb, H. P , M.Sc. Prof.

French and German
Klimpke, P., M.A. Yale. Prot.

Law
Richards, C. D., B.A.
Lectr. (Contracts and Real Property).
Hughes, P. J., B.A.
Lectr. (Torts, Crimes).
Winslow, J. J. F., B.A.
Lectr. (Procedure).
At St. John :
McKeown, Hon. H. A., C.J., D.C.L. Dean of Faculty.
McInerney, H. O., M.A., B.C.L. Prof.
15 Part-time Lectrs.

Mathematics
The Chancellor Prof.

Natural History and Geol.
Cox, P., B.A., B.Sc., Ph.D. Prof.

Philosophy and Economics
Kierstead, W. C., Ph.D. Chic., M.A. Prof.

Physics and Elec. Engin.
Baird, A. F., M.Sc. Prof.

GENERAL INFORMATION (v. also p. 322)

The " College of New Brunswick " was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as " King's College," and merged in 1859 in the Univ. of N.B. established in that year. A Faculty of Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the Chancellor and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* President. The annual grant from Provincial revenues is $25,000.

LIBRARY. 14,000 vols. MUSEUMS: Natural History (rich in birds). LABORATORIES: Bot., Chem., Engin., Geol., Phys., Psych. OBSERVATORY: Telescope with 6" clear aperture.

DEPARTMENTS. Arts, Applied Science (Engineering and Forestry), Law.

DEGREE COURSES. 4 yrs. (from "Junior" Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The "Senior" Matricn. (or equivalent) Certif. admits to the 2nd year. The first 2 yrs. in Engin. are arranged to suit candidates for licences as Land Surveyors.

HIGHER DEGREES. Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.', in Engin. or For. of 3 yrs.' standing, M.Sc.; to B.A. of 6 yrs.' standing, B.C.L.; to B.C.L. of 5 yrs.' standing, D.C.L.; D.Litt., D.Sc., LL.D. (Hon.).

RECOGNITION by other Univs. (v. pp. 307, 640).

FEES, tuition, annual: Arts, $70; Engin. or Forestry, $100.

THE YEAR 1923–24

BENEFACTIONS. $25,000 additional grant from Province of N.B. for Memorial Building; $2000, Electrical Equipment.

NEW BUILDINGS. Memorial Hall, $150,000, Convocation Hall, Chemistry and Physics laboratories.

NUMBER OF STUDENTS. Full-time, preparing for B.A., B.Sc., or B.C.L.—187 (including 52 women).

HONORARY DEGREES. *LL.D.*—G. E. Neill. *D.Sc.*—H. H. Hagerman.

OTHER DEGREES. B.A., 16; B.Sc., 19; B.C.L., 9; M.A., 2.

UNIVERSITY OF OTTAWA

APOSTOLIC CHANCELLOR—H.G. THE ARCHBISHOP OF OTTAWA.
RECTOR—F. X. MARCOTTE, D.D., D.Ph.
REGISTRAR—A. JASMIN, Ph.D.
TREASURER—A. D. MCGOWAN, B.L.
PREFECT OF STUDIES—A. PELLETIER.
PREFECT OF DISCIPLINE—A. CARY.

PROFESSORS, October 1924

[a = Arithmetic, c = Classics, e = English, f = French, h = History, m = Mathematics, p = Penmanship, r = Religious Knowledge.]

Adam, M., Ph.L., Th.L.—r.
Allard, O.—f, h, r.
Arsenault, A. J.—c, e, f.
Beaulieu, J.—e, f, h, m, p, Music.
Beauséjour, R., Th.L.—r.
Bélanger, A., Ph.L.—Pedagogy.
Belleau, P. H.—Physics.
Bergevin, L.—c, r.
Bétournay, A., Ph.L.—c.
Bradley, F.—e, c.
Brosseau, H. D.—c, h.
Cadieux, J.—e, r, p.
Cary, A.—e, r, Econ.
Cassidy, C. J.—e.
Charbonneau, L., B.A.—Pedagogy.
Chartrand, J.—e, f, r.
Choquette, F.—c.
Cornellier, P., B.A., Ph.D., Th.D.—r.
Côté, V.—f, r.
De Blois, J.—Geog., r, p.
Deschamps, T.—r, f.
Desnoyers, A., Ph.D.—r.
Dubé, H., Ph.D., M.Sc.—m, Physics, Astron.
Dubois, N.—c, f.
Dubois, P., B.A.—m, Law, p.
Duchesneau, J. C., B.L.—e, m.
Emond, H., B.A.—f, h, m, Geog., p.
Fusey, A., Ph.L.—c, f, r.
Garneau, P., Ph.L.—c, r.
Gravel, J.—c, r.
Guertin, A.—f, h, r.
Guy, J.—m, r.
Hébert, J., Ph.L., Th.L.—c, r.
Jacques, A.—h, m, r.
Jasmin, A.—h, c.
Julien, O.—e, f, h, Stenography, p.
Lajeunesse, J. A., M.A.—Nat. Sc., Pedagogy.
Lamoureux, R., Ph.D.
Latulipe, E.—c, f, m.
Leblanc, R.—Philos., r.
Leclerc, A.—f, m.
Legault, R.—Business.
Lindsay, J. G.—e, f, Geog., p.
McMahon, R., B.A., Ph.L.—c.
Marchand, G., Ph.D.—r.
Martel, G.—m.
Morisseau, H.—f, h, r.
Nillès, Th.D.—r, Pol. Econ. and Const. Law.
Paquette, A.—f, r, Geog.
Pelchat, J.—h, m, r.
Pelletier, A.—c.
Pelletier, L. P., Ph.L.—e.
Perruisset, L., D.Ph.—h, Philos.
Poulet, D., L.Ph.—Philos., r.
Quigley, F. J.—e.
Renaud, E., Ph.D.—Chem., m, f, r.
Sénécal, R.—Business.
Simard, G., Ph.D.—Eccl. Hist.
Tassé, A.—Music.
Véronneau, A., M.A.—c, f.
Verville, E., Ph.L.—f, c.
Villeneuve, R., D.Ph.—r.
Voyer, O.—f.

GENERAL INFORMATION (v. also p. 322)

The " College of Bytown," incorporated in 1849, changed its name in 1861 to " College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. The Univ. is conducted by the Oblate Fathers of Mary Immaculate.

LIBRARY, 25,000 vols. The Parliament Library, to which students have access, has 300,000 vols. MUSEUMS: In the Univ.—Geol.; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. LABORATORIES: Chem., Phys., Mineral.

DEGREES, ETC. B.A., M.A., B.L. (Lit.), B.Phil., B.Th., D.Th., LL.D. (Hon.), Lic. Phil., D.Phil., Lic. Th. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fourth to the Seventh " Forms," that of the first 3 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.A. exempts law and medical students from Prelim. Examns. and entitles the former to a reduction of 2 yrs. of the ordinary 5 yrs.' course. The B.Th. and the L.Th. involve respectively 2 and 3 yrs.' study of Theology after the completion of a classical course; the B.Ph. and the L.Ph. respectively 3 and 4 yrs.' study after matricn. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

FEES. For Tuition and Board Residence per half-year, $300. Degrees from $5 to $75.

RESIDENCE. Students whose homes are not in Ottawa are required to live in the Univ. building, where they are subject to strict discipline—*e.g.* no book or newspaper may be introduced without having been previously examined and approved of by the Prefect of Discipline.

DEGREES GRANTED (1924). B.A., 18; M.A., 1; B.Ph., 22; L.Ph., 14; B.Th., 9; L.Th., 7; LL.D., 1; D.Litt., 1; D.Phil., 1.

NUMBER OF STUDENTS, 1923–24. Faculty of Theology, 69; Philos., 67; Arts, preparatory course, 812.

QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

CHANCELLOR—Rt. Hon. Sir ROBERT L. BORDEN, G.C.M.G., P.C., K.C.

PRINCIPAL AND VICE-CHANCELLOR—R. BRUCE TAYLOR, M.A., D.D., LL.D.

RECTOR—W. H. COVERDALE, LL.D.

VICE-PRINCIPAL—.....

REGISTRAR AND TREASURER—W. E. MCNEILL, M.A., Ph.D.

DEPUTY REGISTRAR—ALICE KING.

LIBRARIAN—NATHAN VAN PATTEN.

DEAN OF WOMEN—Mrs. W. E. MCNEILL, M.A.

PROFESSORS, LECTURERS, ETC., November 1924

Accounting
Walker, C. E., C.A. Asst. Prof.
Smails, R. G. H., A.C.A. ,, ,,

Anatomy, v. also Med.—Obs., Surg.
Matheson, D. C., M.B. Acting Prof.
1 Demr.

Banking, v. Pol. Econ.

Biology
MacClement, T. W., D.Sc. Armour Inst., M.A. Allan Prof.
Klugh, A. B., M.A. Asst. Prof.
Earl, R. O., B.A. Asst. Prof.
Hensley, C. A. E., B.A. Tutor & Demr.
2 Tutors.

Chemistry, v. also Engin. [Prof.
Neish, A. C., M.A., Ph.D. Col.
McRae, J. A., M.A., Ph.D., F.I.C. Assoc. Prof.
Frost, G. B., B.A. Tor., Ph.D. Cal. Lectr.
Cadenhead, A. F. G., B.A. Lectr.
Dorrance, R. L., B.A. Tor. Lectr.
12 Tutors.

Chemistry, Biological
Lothrop, A. P , M.A. Ober., Ph.D. Col. Prof.

Classics
Callander, T., M.A. Aberd. and Ox. (Greek) Prof.
Tait, M. D. C., B.A. Ox. Lectr.
Jolliffe, R. O., Ph.D. Chic. (Latin) Prof.
Macdonnell, Mary L., M.A. Instr.

Commerce, v. also Accounting.
Caldwell, H. G., B.A., B.Com. Asst. Prof.

Economics, v. Polit.

Engineering, v. also Mining
Macphail, A. J., C.M.G., B.Sc. (General E.) Prof.
Arkley, L. M., M.Sc. (Mech. E.) Prof.
Goodwin, L. F., Ph.D. Heid., A.C.G.I., F.I.C. (Indust. and Chem. E.) Prof.
Wilgar, W. P., B.Sc. (Civil E.) Prof.
Malcolm, L., M.A., B.Sc. (Munic. E.) Prof.
Jemmett, D. M., M.A., B.Sc. (El. E.) Prof.

Ellis, D. S., M.A.; B.Sc. (Civil E.) Assoc. Prof.
Bain, J. W., M Sc. McG. (El. E.) Lectr.
Rutledge, L. T., B.A.Sc. (Mech.E) Assoc. Prof.
Jackson, A., B.Sc. (Draughting) Asst. Prof.
Davis, R. L., M.S. (El. E.) Asst. Prof.
9 Tutors, 7 Demrs., 3 Instrs.

English
Sandwell, B. K., B.A. Tor. Prof.
Macdonald, J. F., M.A. Prof.
Roy, J. A., M.A. Edin. Assoc. Prof.
Alexander, H., M.A. Liv. ,, ,,
Gordon, Miss W., M.A. Instr.
6 Tutors.

French [Prof.
Campbell, P. G. C., M.A. Ox.
Hicks, R. K., B.A. Camb., M.A. Harv. Assoc. Prof.
Conacher, W. M., B.A. Lond. Asst. Prof.
McConnell, Mme. B. S. Instr.

Geology [Prof.
Baker, M. B., B.A., B.Sc., F.G.S.A.
Rose, B , Ph.D. Yale, B.Sc. Asst. Prof.

German
Macgillivray, J., B.A. Tor., Ph.D. Leip. Prof.

Hebrew, v. Semitic

History
M'Arthur, D. A., M.A. Prof. of H. and Douglas Prof. of Colonial H.
Prince, A. E., M.A. Ox. and Manc. (English H.) Assoc. Prof.
Trotter, R., B.A. Yale, M.A., Ph.D. Harv. Assoc. Prof.

Italian, v. Romance

Mathematics
Matheson, J., M.A., Dean of the Faculty of Arts Prof.
Gummer, C. F., M.A. Ox., Ph.D. Chic. Prof.
Miller, Norman, Ph.D. Harv., M.A. Assoc. Prof.
Johnston, K. P., M.A., B.Sc. Asst. Prof.
Newlands, Mrs., M.A. Instr.
8 Tutors.

Medicine, v. *infra*

Metallurgy
MacKay, G. J., B.Sc. Prof.
Carson, O. A., M.A. Col., B.Sc. Lectr.

Mineralogy [Prof.
Bruce, E. L., B.A., B.Sc , Ph.D.

Mining Engineering
Graham, S. N., B Sc. Prof.

Philosophy
Humphrey, Geo., B.A. Ox., Ph.D. Harv. Prof.
MacCallum, H. R., M.A. Asst. Prof.
1 Tutor.

Physics
Clark, A. L., B.Sc. W.P.I., Ph.D. Clark, Dean of Fac. of App. Sc. Prof.
Baker, W. C., M.A. (Expl. P.) Prof.
Gray, J. A., D.Sc. Manc. Chown Research Prof.
Flammer, E., B Sc. Calif., Ph.D. Harv. Assoc. Prof.
Robertson, J. K., M.A. Tor. Assoc. Prof.
Ball, W. V., B.A.Sc. Tor. Lectr.
2 Tutors.

Physiology
Melvin, G. S., M.D. Aberd. Prof.
Ettinger, G. H , B.A., M.D., C.M. Lectr. in P. and Embryol.
1 Fellow.

Political and Econ. Science
Skelton, O. D., Ph.D. Chic., M.A. (on leave) Macdonald Prof.
Heaton, H. Special Lectr.

Mackintosh, W. A., Ph.D. Harv., M.A.
Assoc. Prof. of Pol. Sc. (Acting Head of Dept.).
Caldwell, H. G., B.A., B.Com.
Asst. Prof.
Wynne, W. H., M.A. Lectr.
Knox, F. A. Lectr.
3 Tutors in Econ. and Banking.

Romance Lang. and Lit., v. also French
Brovedani, J. H., D. ès L. Rennes
Prof. of Span. & Ital.

Semitic Langs. and Lit. [Prof.
Jordan, W. G., B.A. Lond., D.D.

Spanish, v. Romance

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics, v. Surg.

Bacteriology
Reed, G. B., M.A., B.Sc., Ph.D. Harv. Prof.
Hay, W. D., M.A., M.D., C.M.
Lectr. in Serology.

Electro-Therapy, v. Mat. Med.

Gynæcology
Mylks, G. W., M.D. Prof.
Morison, M. J., M.D. Clin. Asst.

Materia Med.
Quigley, J. P., M.A., M.D., M.R.C.S. Eng., L.R.C.P. Lond. (Lectr. in Electro-Therapy) Asst. Prof.

Med. Jurispr. and Toxicology
Gardiner, R. J., M.D., C.M. Lectr.
Rigney, T. J., B.A., K.C. Lectr.

Medicine and Clin. Med.
Connell, W. T., M.D., M.R.C.S. Eng., L.R.C.P. Lond. Prof.
Gibson, W., M.D.
Assoc. Prof. of M.
MacCallum, E. C. D., M.D., C.M. McG. Assoc. Prof. of M.
MacGregor, R. R., M.D., C.M.
Asst. Prof. (in charge of *Pediatrics*).
Third, J. R., B.A., M.D.
Clin. Asst.
Macdonnell, P. M., B.A., M.D.
Clin. Asst.
Hopkins, B. H., M.B. Tor. Lectr.
Jones, W. A., M.D. Westn.
Clin. Asst. & Historian.

Obstetrics
Williamson, A. R. B., M.A., M.D., M.R.C.S. Eng., L.R.C.P. Lond. Prof.
O'Connor, F. J., M.D., C.M.
Clin. Asst. & Fellow in Anat.

Ophth., Ot., Laryng. and Rhin.
Connell, J. C., M.A., M.D. Prof.
Cays, F. A , M.D , C M. Lectr.
Connell, H. C., B A., M.D., C.M.
Clin. Asst.

Pathology
Miller, J., B.Sc., M.D. Edin., D.Sc. Birm. Prof.
Little, T. R., M.D., C.M. Asst. Prof.

Pediatrics, v. Med.

Pharmacology
Gibson, T. W., M.D., M.A., M.B. Edin. Prof.

Psychiatry
Ryan, E., B.A., M.D., C.M. (Assoc. Prof. of Surg.) Prof.

Surgery, v. also Psych.
Austin, L. J., M.Ch. Camb., F.R.C.S. Eng. Prof. of Clin. S.
Etherington, F., M.D., C.M.G.
Assoc. Prof.
Gardiner, R. J., M.D., C.M.
Asst. Prof.
Keyes, S. J., M.D., C.M. (Lectr. in Anæsthetics) Asst. Prof.
Sparks, J. F., B.A., M.D., C.M.
Asst. Prof. of S. and *Appl. Anat.*
Bogart, I. G., M.D., C.M.
Assoc. Prof.

AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE (Presbyterian). Principal and Prof. of Church Hist. and Hist. of Dogma, S. W. Dyde, D.Sc., D.D., LL.D. 5 other Profs.

GENERAL INFORMATION (v. also p. 322)

On the initiative of the Presbyterian Church a Royal Charter was granted in 1841 for the establishment of Queen's College, Kingston, funds being provided by grants from the Church and from the Govt. and by private benefactions. To the original Faculties of Arts and Theology were added, in 1854 Medicine, in 1907 Education, and in 1916, by amalgamation with the Univ. of the School of Mining founded in 1893, Applied Science. In 1912 the Faculty of Theology was separately incorporated as "Queen's Theological College" in affiliation with the Univ. but controlled entirely by the Presbyterian Church. In 1920 the Faculty of Educn. was discontinued, the students being transferred to the Teachers' Training College, Toronto. Endowments amount to $1,800,000.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal and Rector, and representatives of the College, the Faculties, Graduates and Benefactors.

LIBRARY, 95,000 vols. (valuable Canadian Historical Section). MUSEUMS: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American stone age collection). LABORATORIES, including important School of Mines buildings: Biol. (accommodating 220 students), Chem., Geol., Physics, Engineering, Mining, Metall., Mineral. OBSERVATORY with 6″ telescope. HOSPLS. available for clinics, 2 general. 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

FACULTIES. Arts, Applied Science, Medicine. The Senate includes representatives of the Theol. College also.

MATRICULATION. See p. 407.

DEGREE COURSES. Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 6 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc.; 7 yrs., B.A. and M.D.

For teachers in schools and others unable to pursue the full degree courses in Arts at the Univ. extra-mural instruction is provided by correspondence conducted by a staff of tutors. Attendance at the Univ. during at least one full session, or four full sessions of the summer school, must be given, and if much science is taken this minimum must be exceeded. All students proceeding to the degree must take in residence 9 of the 19 courses required for the Pass degree. Some of these may be covered at the Summer School of 6 weeks during July and Aug., but the examinations written are the regular Sept. examns. as set for all students.

Banking Courses leading to diplomas of Associate or Fellow of the Canadian Banking Assocn. Tuition given by correspondence to members of Canadian Banks.

By agreement with the Can. Institute of Chartered Accountants, Toronto, the tuition of their course, leading to the C.A. certif., is given by the Univ.

HIGHER DEGREES. M.A. (1 yr. graduate course); M.Sc. (1 yr. course and

2 yrs.' professional practice); Ph.D. (3 yrs.); D.Sc. (2 or 3 yrs.); D.P.H. (Doctor of Pub. Health); B.D. (3 yrs.' course or its equivalent); Honorary LL.D., D.D.

RECOGNITION BY OTHER UNIVS. See pp. 103, 265, 274, 275, 640.

DIPLOMAS. Arts (3 yrs.' B.A. extra-mural course); Testamur in Theology (3 yrs.' course).

FEES (Class and Examn.) in Arts, $54 p.a.; Science, $102 to $122.

RESIDENCE. 3 Hostels for women. Board and lodging, $8 to $10 a week.

UNIVERSITY EXTENSION. See above—Degree courses. A course of weekly lectures is open to the public and lectures (73 in 1923–24) are given by members of the staff at various centres in Ontario.

PUBLICATIONS. *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal.*

THE YEAR 1923–24

BENEFACTIONS. Dr. Mundell's widow, $1000 to found a Scholarship in Applied Anatomy; Dr. Lawrence Pierce, Toronto, Collection of Canadiana, valued at $2000; Prof. S. A. Mitchell, Univ. of Virginia, $2000 for research instruments. *Bequests*: Jonathan Day, $5100; W. D. Macpherson, $5948.

BUILDINGS. The Douglas *Library*, costing $385,000, was completed. This building also accommodates the Administration offices and a spacious reading-room extending from end to end of it. The Women's *Residence*, which will cost about $180,000, is nearing completion, and will be ready for use next autumn. It will hold 52 women students, while an annex will take 25 more. The dining-room will seat 150. In connexion with the General Hospital a new *Pathological* building is being erected. The old Medical Building burned last August is being rebuilt as a two-storey building, and the Medical library has been moved to the new Douglas Library. A new *arena*, with artificial ice, has now been completed to take the place of the Jock Harty Arena burned in the spring.

CHANGES IN REGULATIONS. Students who are permitted to cover part of the degree course by *correspondence* are required to take in residence at least 9 of the 19 courses required for the Pass degree. Certificates from *technical schools* at Haileybury, Sudbury and Hamilton are now accepted for admission to the Faculty of Applied Science from students who have covered courses approved by the Univ.

STAFF CHANGES. Dr. O. D. Skelton, head of Economics Dept. and Dean of Faculty of Arts, was granted a year's leave to accept post of Counsellor, Dept. of External Affairs at Ottawa. Prof. Brovedani of the Spanish Dept. spent the summer in S. America, where he gave lectures on Canada in several centres. Dr. T. W. Gibson of Ottawa was appointed Prof. of Pharmacology; J. A. Gray, D.Sc. (Manchester), from Toronto, Research Prof. of Physics; R. Trotter, from California, Associate Prof. of History. Vice-Principal J. Watson, head of the Philosophy Dept., retired, and was succeeded by G. Humphrey, from Wesleyan Univ., Connecticut. Prof. A. S. Ferguson resigned to accept the chair of Philos. at Armstrong College, Newcastle, England. Assoc. Prof. J. O. Lofberg (Classics) resigned to go to Kentucky, and was succeeded by M. D. C. Tait from Oxford.

HONORARY DEGREES. *LL.D.*—A. P. Knight, H. P. Biggar (London,

England), J. A. Ruddick, Ira A. MacKay (McGill Univ.), W. S. W. McLay (McMaster Univ.), J. F. Kidd, C. Mair, J. M. Bell (Almonte), S. A. Mitchell (Virginia). *D.D.*—W. M. Kannawin, G. Watt Smith.

OTHER DEGREES. M.A., 12 (including women—3); B.A., 158 (w.—87); B.Com., 17 (w.—2); M.Sc., 4; B.Sc., 67; M.D., 64; B.D., 2.

STUDENTS (Nov. 1924). Arts, 1413, including 745 extra-mural; Science, 240; Medical, 253; Banking, 190; Chartered Acctcy., 245. Registered in two Faculties, 30; Total, 3056. Summer School, 451. Summer students not in Summer School or in previous winter, 121.

UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—Rt. Rev. J. MORRISON, D.D., Bishop of Antigonish.

PRESIDENT-RECTOR—Very Rev. H. P. MACPHERSON, D.D., D.C.L.

VICE-RECTOR AND DIRECTOR OF DISCIPLINE—Prof. H. J. MACDONALD, M.A., S.T.L. Urb. Rome.

BURSAR—D. C. MACKAY, B.A.

LIBRARIAN—Prof. D. J. MACDONALD, Ph.D.

REGISTRAR—Prof. P. J. NICHOLSON, Ph.D.

DIRECTOR OF STUDIES—Prof. R. K. MCINTYRE, B.Sc.

PROFESSORS, LECTURERS, ETC., November 28, 1924

Biology and German
Connolly, C. J., Ph.D. Mun. Prof.

Chemistry
McIntyre, R. K., M.A., B.Sc. Cath. Univ. of Amer. Prof.
Chaisson, A. F., M.A., B.Sc. (Acting).
Mullins, E., M.Sc. Cath. Univ. Asst. Prof.

Classics
Ktenas, Y., M.A. Harv. Prof.

Economics
Macdonald, D. J., M.A., Ph.D. Cath. U.A. Prof.

Education
Coady, M. M., Ph.D., D.D. Prof.

English Lit. and Modern Hist.
Young, J. J., M.A. (N.U.I.) Prof.
Bannon, R. V., B.A. Assoc. Prof.

Gaelic Lang. and Lit.
Nicholson, P. J., Ph.D. Prof.

Geology and Engineering
McPherson, H., D.D., Ph.D. Urb. Rome Prof.

History, v. Engl.

History, Ancient
MacDonald, H. J., S.T.L. Prof.

Law
Macdonald, A., M.A., Judge C.C. Lectr.

Mathematics
O'Connor, F. J., B.A. Harv., B.Sc. M.I.T. Prof.
McKenna, L., B.A. Lectr.

Philosophy
Coady, M. M., D.D., Ph.D. Prof.
Boyle, T. O'R., D.D. Assoc. Prof.

Physics
Nicholson, P. J., M.A., Ph.D. J. Hopk. Prof.

Religion
Boyle, T. O'R., D.D. Lectr.

GENERAL INFORMATION (v. also p. 322)

The Univ. was authorized in 1866 to grant degrees, and was endowed with full Univ. powers in 1882. A new Charter was granted in 1909. The

Univ. is under the direction of the Roman Catholic Church, but there are no religious tests for entrance or for degrees. The recent Neil McNeil bequest for endowment is valued at $600,000. A further $200,000 will become due on the death of beneficiaries now receiving interest.

LIBRARY, 33,000 vols. LABORATORIES: Biol., Chem., Geol., Phys.

COURSES. 4 yrs., B.A., B.Sc.; 2 yrs., Engineering (gives admission to leading technical colls of Canada and U.S.A.); graduate 1 yr. course for M.A. (v. also pp. 326, 360).

EXPENSES. Board and dormitory, $6 per week; private room, $2 per week; tuition for session, $85; laboratory, $5 to $7½; degree, $5 to $10.

A "PEOPLE'S SCHOOL," open Jan. to March (8 weeks), provides courses in various Arts, Pure Science, and Agric. subjects. No educational test for entrance.

PUBLICATIONS. *Calendar* (July); *Xaverian*, monthly.

THE YEAR 1923–24

DONATION. $3392.

NUMBER OF STUDENTS. 222.

DEGREES CONFERRED. B.A., 34; B.Sc., 5; M.A., 3.

UNIVERSITY OF SASKATCHEWAN, SASKATOON

VISITOR—Hon. W. H. NEWLANDS.

CHANCELLOR—Sir F. W. G. HAULTAIN, LL.D.

PRESIDENT—W. C. MURRAY, M.A., LL.D., F.R.S.C.

REGISTRAR—A. R. WEIR, B A.

PROFESSORS, LECTURERS, ETC., October 7, 1924

Accounting

Neilson, J., B.Acc. Prof.

Agriculture, v. *infra*

Bacteriology and Pathology

Lindsay, W. S., O.B.E., B.A. Dal., M.B. Edin. Prof.

Rea, George, M.B., Ch B., D.P.H. Belf. Prof.

Biology

Thompson, W. P., M.A. Tor., Ph.D. Harv., F.R.S.C. Prof.

Cameron, A. E., M.Sc. Man., D.Sc. Aberd. Prof.

Fraser, W. P., B.A. Corn., M.A. Dal. Lectr.

Newton, Margaret, B.A. McG., Ph.D. Minn. Asst. Prof.

Sleggs, G. F., B.Sc. Liverp. Instr.

Chemistry

Thorvaldson, T., B.A. Man., Ph.D. Harv. Prof.

Manning, R. J., B.A. Tor., D.Sc. Brist. Prof.

Basterfield, S. L., B.Sc. Lond., Ph.D. Chic. Prof.

Grubb, A. C., Ph.D. Chic. Asst. Prof.

Cameron, C. N., M.A., Ph.D. Chic. Asst. Prof.

Larmour, R. K., B.A. Instr.

Classics

Sullivan, W. G., M.A. Dub. Prof.

Ramsay, W., B.A. Queen's Prof.

Ferguson, R. M., B.A. T.C.D. Asst. Prof.

Economics

Swanson, W. W., M.A. Qu., Ph.D. Chic. Prof.

Carrothers, W. A., Ph.D. Edin. Prof.

M'Queen, R., M.A. Alb. Asst. Prof.

Education

The President, M.A. Edin., LL.D. Qu. and Alb. Lectr.

Sharrard, J. A., M.A. Tor. Lectr.

Engineering, v. *infra*

English

Wilson, R. A., Ph.D. Queen's Prof.

Lothian, J. M , M.A. Glas. Prof.

Bayer, Jean G., M.A. Dal. Asst. Prof.

Weir, A. R., B.A. Lectr. in E. and Maths.

Alexander, W., B.A. Ox. Instr.

McKenzie, Edith J., B.A. Sask. Instr.

French [Prof.

MacDonald, J. A., M.A. Harv.

Muller, C. E., B.A. Lausanne. B.Sc. Geneva Prof.

Cameron, Margaret, B.A. McG., M.A. Rad. Asst. Prof.

German

Eaton, J. W., M.A. Dub. Prof.

Hebrew
Munro, M. F., M.A., B.D. Queen's Lectr.

History
Morton, A. S., M.A. Edin. Prof.
Underhill, F. H., B.A. Tor., M.A. Ox. Prof.
Simpson, G. W., M.A. Tor. Asst. Prof.

Household Science
Rutter, Ethel, Ph.B. Prof.
Patrick, Edith, B.A. Tor., M.A. Col. Instr.

Law [Dean & Prof.
Moxon, A., B.C.L. Ox.
Kleven, V. E., B.C.L. Ox. Prof.
Cronkite, F. C., LL.B. Harv. Asst. Prof.
Estey, J. W., LL.B. Harv. (Torts, etc.) Lectr.
Sibbald, A. S., M.A. Tor. (Interpretn.) Lectr.

Mathematics [Prof.
Ling, G. H., B.A. Tor., Ph.D. Col.
Dines, L. L., Ph.D. Chic. Prof.
Pyke, A. J., M.A. Tor. Asst. Prof.

Pharmacy
Campbell, Alex. Prof.
Woods, Esli Instr.

Philosophy
Sharrard, J. A., M.A. Tor. Prof.
Bateman, J. V., M.A. T.C.D. Asst. Prof.

Physics
McGougan, A. G., B.A. McGill, Ph.D. Yale Prof
Harrington, E. B., Ph.D. Chic. Prof.
MacKay, C. A., M.A. Dal., Ph.D. Princ. Asst. Prof.
Ainslie, D. S., M.A. Tor. Instr.

Agriculture

Animal Husbandry
Shaw, A. M., B.S.A. Tor. Prof.
Winters, L. M., M.Sc. Ames. Prof.
Benson, W. S., B.S.A. Sask. Instr.

Dairying [Prof.
Potts, A. E., B.Sc. Edin , M.S.A.
De Vine, J. W. Instr.

Engineering, Agric.
Greig, A. R., B.Sc. McGill Prof.
Hardy, A. E., M.S.A. Ames. Prof.
Josephson, H. B., B.S.A. Sask. Instr.

Farm Management
Rutherford, W. J., B.S.A. Tor. Dean & Prof.

Field Husbandry [Prof.
Champlin, M., M.Sc. Sth. Dak.
Kirk, L. E., B.A., M.S.A. Sask. Prof.
Harrington, J. B., Ph.D. Minn. Asst. Prof.

Horticulture
Patterson, C. F , B.A. Tor., Ph.D. Ill. Asst. Prof.

Poultry
Baker, R. K , B.A. Man. Prof.
Maw, A. J. G., B.S.A. McGill Instr.

Soils
..... Prof.
Joel, A. H., B.Sc. Mich. Asst. Prof.
Mitchell, J., B.S.A. Instr.

Veterinary Science
Hadwen, S., D.V.S. McGill Research Prof.
Wright, N , V.S. Lectr.
Fulton, J. S., D.V.M. Asst.

Engineering, v. also Agric.

Ceramic E.
Worcester, W. G. Prof.

Civil E.
MacKenzie, C. J., B.E. Dal., M.C.E. Harv. Prof.
Williams, G. M., B.Sc. Neb. Prof.
Spencer, R. A., B.Sc. McG. Asst. Prof.
Davies, V. R., B.S.C.E. Manit. Instr.

Electrical E. [Instr.
Lovell, A. J., B.Sc.E.E. Manit.
Mechanical E.
Greig, A. R., B.Sc. McG. Prof.
Fraser, I. M., B.Sc. McG. Asst. Prof.

Extra-Mural Work

Raynor, J. G., B.S.A. Man. Director.
Gordon, K. W., B.S.A. Man. Asst. Director.
De Lury, Abigail Dir. of Home-makers Clubs.

AFFILIATED COLLEGES, ETC.

EMMANUEL COLLEGE, estabd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Principal, W. T. Hallam, M.A., D.D. Courses for Testamur, Lic.Th., B.Th.

ST. CHAD'S, Regina (Church of England).

ST. ANDREWS COLLEGE, Saskatoon. Principal, E. H. Oliver, M.A., Ph.D.

COLLEGE OF PHYSICIANS AND SURGEONS; LAW SOCIETY; DENTAL COUNCIL; PHARMACEUTICAL ASSOCN.; ASSOCN. OF REGISTERED NURSES; VETERINARY ASSOCN.; ASSOCN. OF ARCHITECTS; INST. OF CHARTERED ACCOUNTANTS; OPTOMETRISTS; LAND SURVEYORS.

GENERAL INFORMATION (v. also p. 322)

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Science in 1909 and took over the educational work of the Agricultural Dept. in 1910. Faculties or Colleges of Law and Engineering were opened in 1913 and 1915. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost about $3,600,000.

Of the Board of Governors 5 members are elected by the Senate and 3 appointed by Govt.; the President is a member. The Senate (19 members elected by graduates, who also elect the Chancellor, and 13 *ex officio*, including the Minister of Education) regulates educational matters, the administration of which is controlled for the Univ. as a whole by an Academic Council and within each College by the Faculty. The President is a member of each of these bodies, and no appointment or dismissal is made without his recommendation. The maintenance of the Univ. is partially provided for by assignments of revenue and legislative grants. The annual budget exceeds $500,000.

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NEW REGULATIONS. University granted recognition to the work of *Junior Colleges* in Saskatchewan to the extent of the first and second year work in Arts.

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NUMBER OF STUDENTS. Arts and Sc., 403 (including women—177); Accounting, 16; Law, 40; Engin., 60; Agric. (*a*) degree, 62, (*b*) Associate, 70; Pharm., 55 (6 women); summer school, 289 (women—170); evening, 118 (w.—87); preparing for higher degrees, 8. Graduates pursuing studies in other Univs.: at Oxford, 3; Paris, 1; Toronto, 2; Univs. in U.S.A., 11.

DEGREES, ETC., CONFERRED. B.A., 46 (including women—30); B.Sc., 8; B.Acc., 2 (w.—3); LL.B., 11; B.S.A., 16; B.E., 8; B.S.P., 1; Assoc. in Agric., 9; Dipl.Phm., 36; M.A., 1 (w.—1); M.Sc., 1.

RESIGNATION. J. T. Hebert; R. Hansen; G. H. Henderson to accept professorship in Dalhousie Univ. APPOINTMENTS: Margaret Cameron, M.A., formerly Instructor in French, Smith College; Victor E. Kleven, B.C.L., formerly Prof. of Law, Alberta; C. A. MacKay, Ph.D., formerly Instr. in Harvard.

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MacPhee, E. D., M.A., B.Educ. Edin. Assoc. Prof.
Blatz, W. E., M.A., M.B., Ph.D. Chic. Asst. Prof.
Chant, S. N. F., M.A. Lectr.
2 Class Assts.
McDonagh, V. A., M.B. Lectr. (M.)

Public Health Nursing [Director.
Russell, Edith K., B.A. King's
Emory, Florence Asst. Director.
Clarke, E. K., M.B. Spl. Lectr. (Mental Hyg. and Soc. Ser.).
Phair, J. T., M.B., D.P.H. Spl. Lectr. (School Hyg.).
Seccombe, W., D.D.S. Spl. Lectr. (Oral Hyg.).

Public Speaking
Greaves, W. H., M.A. Bost. Spl. Lectr.

Religious Knowledge, v. *infra*, Federated Univs. and Colls.

Social Service, v. also Pub. Health N.
Dale, J. A., M.A. Ox. Prof. (Soc. Science).
McGregor, Agnes Director of Field Work.
Macmillan, J. W., B.A., D.D. Prof. (V.).
8 Lectrs.

Spanish, v. Italian

Surveying
Stewart, L. B. (S. and Geodesy) Prof.
Treadgold, W. M., B.A. Assoc. Prof.
Crerar, S. R., B.A.Sc. Asst. Prof.
Banting, E. W., B.A.Sc. Asst. Prof.
Melson, J. W., B.A.Sc. Lectr.

Zoology, v. Biology

Zymology [Assoc. Prof.
Speakman, H. B., M.Sc. Manch.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Path.

Gynæcology, v. Obst.

History of Medicine
Fotheringham, J. T., C.M.G., B.A., M.B., M.D., C.M., LL.D. Qu. Prof.

(C.), (V.), (T.), (M.) = Univ., Victoria, Trinity, St. Michael's College.

Hygiene
Fitzgerald, J. G., M.D. Prof.
Defries, R. D., M.D., D.P.H. Assoc. Prof.
Fraser, D. T., B.A., M.B., D.P.H. Asst. Prof.
Porter, G. D., M.B. Lectr.
4 Demrs., 1 Asst.

Medical Jurisprudence
Silverthorn, G., M.B. Prof.

Medical Research
Banting, F. G., M.D., LL.D. Qu., D.Sc. Prof.

Medicine and Clinical Medicine v. also Path.
Graham, Duncan A. L., M.B. Prof.
Smith, D. K., M.B. Asst. Prof.
Howland, G. W., B.A., M.B. Asst. Prof.
Oille, J. A., M.D. Asst. Prof.
Clarkson, F. A., M.B. Asst. Prof.

Assoc. Profs. of Clin. Med. :
Goldie, W., M.B.
Anderson, H. B., M.D., C.M.
5 Associates, 30 Demrs., 1 Fellow.

Obstetrics and Gynæcology
Hendry, W. B., B.A., M.B. Prof.
McIlwraith, K. C., M.B. Assoc. Prof.
Marlow, F. W., M.D., C.M. F.R.C.S.Eng. Assoc. Prof. (Gynæc.).
Cleland, F. A., B.A., M.B. Asst. Prof.
4 Associates, 2 Demrs., 2 Fellows.

Ophthalmology [Prof.
MacCallum, J. M., B.A., M.D.
Lowry, W. H., M.D., C.M. Asst. Prof.
Maclennan, D. N., M.D., C.M. Asst. Prof.
1 Asst., 4 Demrs.

Oto-Laryngology
Goldsmith, P. G., C.B.E., M.D., C.M. Prof.
Royce, G., B.A., M.B. Assoc. Prof.
2 Associates, 4 Demrs.

Pathology and Bacteriology
Klotz, O., M.B., M.D., C.M. McGill Prof.
Anderson, H. B., M.D., C.M. (Assoc. Prof. Clin. Med.) Prof. Clin. Path.
Holmam, W. L., B.A., M.D., C.M. McG. Assoc. Prof. (Bact.).
Robinson, W. L., B.A. McM., M.B. Asst. Prof. (Path.).
Magner, W., M.D., D.P.H. Lectr.
Cameron, G. C , M.D. Lectr. (Bact.).
3 Fellows, 6 Demrs.

Pathological Chemistry
Harding, V. J., D.Sc. Manc. Prof.
Hunter, G., M.A., B.Sc. (Agric.) Glas. Lectr.
2 Fellows and 2 Demrs.

Pediatrics
Brown, A., M.B. Assoc. Prof.
1 Associate, 7 Demrs.

Pharmacy and Pharmacology
Henderson, V. E., M.A., M.B. Prof.
6 Demrs., etc.

Psychiatry
Clare, H., M.D., C.M. Assoc. Prof.
1 Associate.

Radiology
Richards, G. E., M.B. Assoc.
2 Demrs.

Surgery and Clinical Surgery
Starr, C. L., M.B., M.D. Bellevue, N.Y., LL.D. McM. Prof. (Surg.).
Primrose, A., C.B., M.B., C.M. Edin. Prof. (Clinical S.).
Bruce, H. A., M.D., F.R.C.S.Eng. Prof. (Clinical S.).
Starr, F. N. G., C.B.E., M.B., M.D., C.M. Prof.
McKeown, P. W. H., C.B.E., B.A., M.B. Assoc. Prof. of Clin. S.

Asst. Profs. of Clin. Surg.:
Gallie, W. E., M.D., F.R.C.S.Eng.
Jones, W. W., B.A., M.B., F.R.C.S.Eng.
Beatty, H. A., M.B.
7 Associates, 25 Demrs.

Therapeutics
Rudolf, R. D., C.B.E., M.D., C.M. Edin., F.R.C.P. Lond. Prof.
Johnston, S., M.D. Lectr. (Anæsth.).
8 Demrs.

COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. Hutton, M.A., LL.D.; Registrar—G. O. Smith, M.A.

VICTORIA COLLEGE. The Faculty of Arts of Victoria Univ., v. *infra.*

TRINITY COLLEGE. The Faculty of Arts of the Univ. of Trinity College, v. *infra.*

ST. MICHAEL'S COLLEGE. Superior—Prof. H. Carr, B.A., LL.D.; Registrar—Rev. E. J. McCorkell, M.A. Other Teachers: the Profs., etc., marked (M.) in above list.

FEDERATED COLLEGES

ST. MICHAEL'S, v. *supra.*

KNOX COLLEGE and WYCLIFFE COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—R. Davidson, Ph.D.; A. Gandier, D.D., LL.D.; J. T. McNeill, M.A., Ph.D.; W. Manson, M.A.; D. M. Ramsay, D.D. (2) Wycliffe—W. R. R. Armitage, M.A.; B. W. Horan, M.A., B.D.; E. A. McIntyre, M.A., B.D.; T. R. O'Meara, D.D., LL.D.; C. V. Pilcher, M.A., D.D.; W. E. Taylor, M.A., Ph.D.

AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. President—J. B. Reynolds, M.A. 19 Profs., 9 Assoc. Profs., and 15 Lectrs. 18 Demrs. and Instrs.

ROYAL COLLEGE OF DENTAL SURGEONS, TORONTO. Dean—W. Seccombe, D.D.S.; Secy.-Treas.—W. E Willmott, D.D.S.; Faculty—19 Profs.; 6 Assoc. Profs.; 7 Lectrs.; 9 Clinicians; 25 Demrs.

ONTARIO COLLEGE OF PHARMACY, TORONTO. President of Council—Burwell Griffin; Registrar-Treasurer—J. F. Roberts. Faculty—4 Teachers.

ONTARIO VETERINARY COLLEGE, GUELPH. Principal—C. D. McGilvray, D.V.S.

ALBERT COLLEGE, Belleville; ALMA COLLEGE, St. Thomas; ONTARIO LADIES' COLLEGE, Whitby; ST. HILDA'S COLLEGE, TORONTO (the Women's RESIDENCE for Trin. Coll.).

ONTARIO COLLEGE OF ART.—Principal—G. A. Reid.

GENERAL INFORMATION (v. also p. 322)

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. In 1849 its title was changed to The University of Toronto. It was reorganized in 1853 as an examining and degree-conferring body on the model of the Univ. of London.

In 1887 it again became a teaching body, the Faculties of Medicine and Law which had been abolished prior to the reorganization of 1853 were revived, the Arts work was divided between the Univ. and Univ. College, and provision was made for the admission of other institutions as Federated Colleges. Victoria, Trinity, and St. Michael's Colleges became integral parts of the Univ. in 1892, 1904, and 1907 respectively.

LIBRARY, 196,777 vols. and 65,500 pamphlets. Annual Grant for books, $29,000; 1800 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS: The Royal Ontario Museums—Archæology, Geology, Mineralogy, Palæontology, and Zoology; departmental museums; Trinity has a Nat. Hist. and Archæol. Museum of its own; the Agric. and Vet. Colleges, Knox, and the School of Dentistry have each one.

LABORATORIES: in all depts. of Applied Science and Engineering as well as Anat., Biol., Bot., Chem., Geol., Household Sc., Path., Physics, Physiol.; described in *Bulletin* for Graduate Students. BOTANICAL GARDEN. OBSERVATORY. HOSPITALS available for Clinics: General, 700 beds; Children's, 262; St. Michael's, 400; Western, 120.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Chem. E., Elec. E., Metall. E.), Education, Forestry, Household Sc., Music, School of Graduate Studies. DEPARTMENTS. Social Service, Public Health Nursing.

UNIVERSITY MATRICULATION BOARD. As a result of a conference of representatives of the Univs. of Toronto, Queen's, McMaster, and Univ. of Western Ont. held in Dec. 1908, the Senates of these Univs. created a Board to conduct and control their annual Matricn. examns. The Dept. of Educn. of Ontario agreed to provide the same machinery for holding these examns. as it employs for the Departmental examns., and the Registrar of the Dept. is Secy. of the Board. In connexion with the Matricn. examns. a report signed by all members of the staff of the school concerned as to the standing of their candidates is taken into account in determining the results.

The subjects of Pass Matricn. are (1) Latin, (2) English, (3) History, (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chemistry. For Matricn. in Arts it is necessary to pass in (1) to (4) and any two of (5) to (9) for admission to the Pass Course and with honour standing in at least 5 specified subjects for admission to an Honour Course. In certain cases foreign students may substitute their native language for Greek or French or German.

For Matricn. in the Univ. of Toronto in Med. the requirements are (1) to (4), (9), and any one of (5) to (8) with honour standing in (2), (4), and one of (5) to (8); in Applied Sc. or Forestry—(2), (3), (4), and any three of (1) and (5) to (9) with honour standing in (2), (4), and one of (1), (5) to (8); in Music—(2) and any two of (1), (5), (6), (7), (8).

Minimum age for admission to the Faculty of Arts, 16; Law, 21; Med., 17; Appl. Sc., 17; Educ., 19; Forestry, 17.

DEGREE COURSES. 4 yrs.—B.A., B.Com., B.A.Sc., B.Arch., B.Sc. (Med.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph), Phm.B.; 3 yrs.—Mus. B. 5 yrs.—D.D.S.; 6 yrs.—M.B. Combined courses: B.A. and M.B.—7 yrs.

Certificates of having passed certain examns. of the standard of the Oxford and Cambridge Local School Certif. may enable a student to enter at the second year the B.A. Pass course (but not an Honours course except in Polit. Sc. or Philos.), provided he is not less than 17 yrs. of age.

Students from the British Isles will be admitted to Medicine and Applied Sc. on submitting certificates of registration with the General Medical Council of Great Britain and the Institution of Civil Engineers.

Honour courses for the B.A. and B.H.Sc. are provided in Household Science and in Science for teachers, the B.Pæd. being a post-graduate degree.

The first 2 yrs. of the Law course may be taken in Arts in the Univ., the 3 remaining yrs. being taken at Osgoode Hall.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in courses in the introductory Med. sciences, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med or Science of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5; and persons holding the L.D.S. of one of the Med. authorities of Great Britain or the B.D.S. degree of Melbourne may be admitted in the Dept. of Dentistry without further examn., and to the final D.D.S examns. on completing one full session at the School of Dentistry of the Royal Coll. of Ontario.

Higher Degrees. M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

M.D. and Ch.M. obtainable after 3 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months—1 winter and 1 summer session.

The M.A.Sc. may be obtained by a B.A.Sc. of this Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The professional degrees, C.E., M.E. (Mining or Mech.), E.E., Chem.E. are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns. The F.E. may similarly be obtained by a B.Sc.F.

The B.Pæd. and D.Pæd. are open to graduates in Arts or Science of any British Univ. who hold a 1st class or High School Asst.'s certif. of Ontario or its equivalent, and pass, after 2 yrs.' (D.Pæd.—3 yrs.) successful experience in teaching, prescribed examns. For the D.Pæd. a thesis is also required, and the candidate must have attended a summer course (or its equivalent) in each subject of examn.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The Univ. publishes annually an announcement of *Graduate Courses. All communications on the subject must be addressed to the School of Graduate Studies.*

RECOGNITION BY OTHER UNIVS. (v. pp. 103, 265, 274, 275, 307, 640).

TRAINING OF TEACHERS. Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the results of Univ. examns., entitling the holders to teach in the High Schools. All teachers for High Schools and Colleges must spend at least 1 yr. in the College of Education.

FEES. Students proceeding to the B.A. and enrolled in one of the Colleges

of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Faculty of Arts without payment of fees except for laboratory supplies. The College Fees, which entitle students to attend lectures in their respective Colleges, are about $40 p.a. Medical students pay for tuition, laboratory supply, hospital and annual examn., $150 p.a. Certificate courses in the College of Education cost $25 p.a. Forestry, $80 p.a. Applied Science and Engineering, $150. D.P.H., $150.

SCHOLARSHIPS, etc., open to graduates include $120 for 2 yrs. for Divinity course in Trinity Coll.; Fellowship in Philos., $300; $1000 Prize for Scientific research or invention, open to all Canadians; $500 Scholarship in Medicine; $500 Fellowship in Anatomy; $750 Fellowships (one or more, each tenable for 3 yrs.) for research in Medicine; and others. War Memorial Scholarships in all faculties. See also Appendix XXIV.

RESIDENCE. University Houses accommodate 150 men, rent, $4 per week; Queen's Hall, residence and board for 98 women at $9.50 per week; Univ. Coll. Houses, residence and board for women (133), about $8 per week; Victoria Coll. Halls for 132 men, about $9 per week, and 144 women, $200 to $300 p.a.; Trinity Coll. provides for 70 men and 50 women; St. Michael's (R.C.) has also residences for men and women.

PUBLICATIONS. *President's Annual Report*; *Calendars* of the several Faculties, April and May; *Graduate Studies Bulletin*; *Bulletins of the Dept. of University Extension*; *Medical Bulletin*; *Univ. Monthly*; *Can. Historical Review*; *Univ. Studies*; Students' Mags.—*'Varsity, Torontonensis, The Goblin.*

THE YEAR 1923–24

BENEFACTIONS. E. C. Whitney Bequest, $400,000; International Health Board of Rockefeller Foundation for building for School of Hygiene and development of the Department, $650,000; Rockefeller Foundation, payment in full of grant for Faculty of Medicine (including premium and interest), $1,148,901.20; Eaton Endowment (annual payment), $25,000; Nipissing Mining Company, Ld., for Research Fellowship (including interest), $20,550. Graduate Fellowships: Sir Edmund Osler, $1000; Colonel, R. W. Leonard, $500; Imperial Oil Company, $500; Sir Edward Kemp, $500; Canadian Pacific Ry., $1500; Carnegie Corporation, for Research in Physics, $2554; Dr. R. A. Reeve Bequest and Prize in Medicine, $2230; Ontario Hockey Assocn., "War Memorial Scholarship," $2000; Hollinger Consolidated Gold Mines, Ld., for Research Fellowship, $1200; A. Rudyard Crawford Scholarship, Univ. Schools, $500; Robert Bruce Bequest, for Scholarships and Bursary, $236.77; Boiler Inspection and Insurance Company, Scholarship in Mech. Engineering, $150; Women's Mining Assocn., Prize in Geology, $150. McCaul Scholarship in Classics: G. A. H. Fraser, $25; Principal M. Hutton, $25; A. M. Stewart, Esq., $25; Univ. College Alumnæ for Prize in English, $10.

SPECIAL EVENTS. Dedication of the Soldiers' Tower (Univ. War Memorial), June 5, 1924.

NEW BUILDINGS. Completed—addition to College of Education; Simcoe Hall; Soldiers' Tower; Aerodynamics Lab. Under construction—Trinity College. Purchased—1 residence, remodelled to accommodate History and Polit. Econ. (Baldwin House).

UNIVERSITY EXTENSION WORK. Enrolment—2560; Summer Session—119; Teachers' Classes—221; Correspondence Courses—619; Tutorial

Classes, Urban—222, Rural—110; Extension Courses for Private Duty Nurses—340, for Prospectors—46, Journalism—120, Export Trade—56, in Dramatic Art—24, in Dietetics for Nurses—87; W.E.A., Toronto—501, Outside Toronto—486; Local Lectures—188.

NUMBER OF STUDENTS. Total registered, 4859. Full-time, preparing for first degrees: Arts, 1910; Med., 866; Applied Sc., 566; For., 43; Mus., 56; Educ., 348; Soc. Ser., 38; Pub. Health Nursing, 27; Univ. Extension (Arts), 288; Grad., 367. Women included in the above: Univ. Coll., 512; Vic. Coll., 279; Trin. Coll, 58; St. Mich. Coll., 97; Grad., 105; Med., 72; Applied Sc., 2; Educ., 198; Mus., 34; Univ. Ext., 156; Soc. Ser., 35; P.H.N., 27.

HONORARY DEGREES CONFERRED. *D.Sc.*—Profs. F. G. Banting and J. J. R. Macleod, H. G. Acres, F. A. Gaby. *LL.D.*—Sir James A. M. Aikins, Rt. Rev. C. H. Brent, A. E. Gooderham, W. Tytler. *M.D.*—O. R. Avison.

OTHER DEGREES. Ph.D., 18; M.A., 76; M.D., 2; M.A.Sc., 7; M.Arch., 2; C.E., 3; D.Pæd., 4; B.A., 348; B.Com., 6; M.B., 209; B.Sc. (Med.), 4; B.A.Sc., 151; B.Arch., 7; B.Pæd., 19; B.Sc.F., 14; Mus.Bac., 1; LL.B., 5; D.D.S., 190; B.S.A., 66; B.V.Sc., 26; Phm.B., 78; D.P.H., 5.

DEATHS Hon. Sir W. R. Meredith, Sir Edmund Walker (Chancellors); Profs. C. K. Clarke, T. H. Black. RETIREMENTS: Profs. G. Chambers, W. B. Thistle, J. McGowan. RESIGNATIONS: Profs. W. A. Clemens, H. B. Maitland, A. W. McConnell.

UNIVERSITY OF TRINITY COLLEGE, TORONTO

CHANCELLOR—J. A. WORRELL, K.C., M.A., D.C.L.
VICE-CHANCELLOR AND PROVOST—C. A. SEAGER, M.A., D.D., LL.D.
DEAN OF RESIDENCE—Prof. L. C. A. HODGINS, M.A. Harv.
REGISTRAR—Prof. J. N. WOODCOCK, M.A. Ox.
LIBRARIAN—Prof. R. E. L. KITTREDGE, M.A. Harv.
PRINCIPAL OF ST. HILDA'S (WOMEN)—MISS M. CARTWRIGHT, B.A.

PROFESSORS, LECTURERS, ETC., October 1924

[*See also* the consolidated list under the Univ. of Toronto, names marked (T.).]

Apologetics [Prof.*
Kingston, G. F., M.A., B.D., Ph.D.

Church History [Assoc. Prof.
Morris, H. C. S., M.A. Ox.
Young, A. H., M.A., D C.L. (Canadian C.H.) Spl. Lectr.

Divinity
The Provost Prof.
Rollo, W., M.A. Aberd. Prof.†
Duckworth, H. T. F., M.A. Ox. Lectr.*
The Provost. Prof.

Homiletics, etc. [Spl. Lectr.
Fotheringham, J. B., B.A.

Old Testament
Mercer, Prof. S. B., M.A., Ph.D., D.D. Prof.*

Pastoral Theology
The Provost. Prof.

Trinity College, established in connexion with the United Church of England and Ireland in 1852, was in 1853 granted a Royal Charter as a University. It is federated with the Univ. of Toronto and, in its Faculty of Arts, forms an integral part of it, but in the Faculty of Divinity remains entirely independent and itself confers degrees. Telegraphic address—Trincoll, Toronto.

LIBRARY, 13,000 vols. MUSEUM, Nat. Hist.

COURSES. L.Th.—4 yrs.; Hons. or Pass B.A. of Toronto and Divinity Testamur—5 or 6 yrs., or, with Hons. in Theol., 7 yrs. Candidates for the B.D. or D.D., if resident outside the Eccl. Provinces of Canada, must be graduates in Arts of 3 yrs.', or ordained clergymen of 5 yrs.' standing. The D.D. is open to B.D.'s of 5 yrs.' standing.

A SCHOLARSHIP of $120 p.a. for 2 yrs. is open to students who have taken an Arts course in the Coll.

PUBLICATIONS. *Yearbook* (July); *Calendar* (May); *Review*, monthly, $1.50; *St. Hilda's Chronicle*, terminally, $1.

THE YEAR 1923–24

The new buildings were in course of erection.

Students. Undergraduate, 159, including 41 Divinity students and 67 women; graduate 13. Degrees in divinity, 4.

* † Also Prof. (*), Lectr. (†), in the Faculty of Arts.

VICTORIA UNIVERSITY, TORONTO

PRESIDENT—R. P. BOWLES, M.A., D.D., LL.D.
REGISTRAR—C. E. AUGER, B.A.
LIBRARIAN—F. L. BARBER, M.A., Ph.D.

Telegraphic Address : Vicollege, Toronto.

PROFESSORS AND LECTURERS, November 13, 1924

[*See also* in the consolidated List under Toronto, names marked (V.).]

Homiletics, Past. Theol., Ch. Hist.
Johnston, A. J., B.A. M. Cox Prof.

New Testament, Greek, etc.
Michael, J. H., M.A. Wales.
G. A. Cox Prof.

Public Speaking
Greaves, W. H., M.A. Bos. Prof.

Religious Pedagogy
Langford, F. W., B.A. Prof.

Sociology [Prof.
MacMillan, J.W., B.A., D.D. Manit.

Systematic Theology
The President, M.A., D.D. Wes., LL.D. Mt. A. & Tor.
Ed. Jackson Prof.

GENERAL INFORMATION

The Upper Canada Academy was established by Royal Charter in 1836 in connexion with the Methodist Church in Canada. Its name was changed in 1841, when power was obtained to grant degrees in Arts, Theol., Med., and Law, to " Victoria College," and in 1884 to " Victoria University." In 1890 it was federated with Univ. of Toronto, and its Arts Faculty became a College thereof, but it still confers degrees in Theology.

LIBRARY. Special features—Canadian verse and Tennysoniana (C. C. James's collections), Methodism in Canada, Education in Ontario.

COURSES. 4 yrs. in Languages, Anc. Hist. and Ethics for B.A., both Pass and Hons. ; 3 yrs. for B.D., the 2nd and 3rd yrs. being subsequent to graduation in Arts; 4 yrs.' conference course for probationers for the Ministry following a 2 yrs.' course taken on circuit ; 3 yrs.' conference course for graduates.

HOSTELS for 120 men and 125 women students.

PUBLICATIONS. *Theological Calendar* (May) ; *Bulletin* (July) ; *Acta Vict.*, a students' monthly.

THE YEAR 1923–24

BENEFACTIONS. Hamilton Fisk Biggar Scholarship, $5000.

NUMBER OF STUDENTS. Full-time, preparing for B.A., 539, including 284 women ; B.D. or Dipl.Th. (graduates), 37 ; Dipl.Th. (non-grads.), 32 ; occasional, 18 (4 women).

HONORARY DEGREES. *D.D.*—A. P. Addison (Toronto) ; C. W. Brown (Saskatoon) ; F. E. Malott (Belleville) ; Bishop F. W. Warne (India).

OTHER DEGREES. B.D.—3 ; Dipl.Th. (graduates), 9 ; Dipl.Th. (non-grads.), 10.

UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

CHANCELLOR—Hon. W. J. ROCHE, M.D., LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—Major A. T. LITTLE.

PRESIDENT—.....

REGISTRAR—Prof. K. P. R. NEVILLE, M.A., Ph.D.

BURSAR—W. WAUGH, M.D., LL.D.

LIBRARIANS—F. LANDON, M.A., MARJORIE ROSS, B.A., ETHEL SULLIVAN.

EXECUTIVE SECRETARY—Lieut.-Col. W. J. BROWN, B.S.A., LL.M.

PROFESSORS, LECTURERS, ETC., October 1, 1924

Anatomy

McKibben, P. S., B.S. Granv., Ph.D. Chic., Dean of Fac. of Med. Prof.
Macklin, C. C., M.B., M.A., Ph.D. Tor. Prof.
Schaef, H. E., M.D. Instr.
Macklin, Madge T., A.B., M.D. Instr.
Simpson, H. M., M.D., M.Sc. Instr.
Dougall, R. P. I., M.D. Instr.
3 Fellows and 3 Tech. Assts.

Biology, v. Zoology

Botany

Hart, N. C , M A. Tor. Prof.
McIntosh, Margaret, M.A. Instr.

Chemistry

Slack, J. A., Ph.C. Mass. C. Ph., M.D. Prof.
Gunton, J. A., M.A. Tor., Ph.D. Ill. Prof.
Best, N. C., Ph.C. Mass. C. Ph. Assoc. Prof.
Russell, J., M.A. Harv. Asst. Prof.
Burns, J. W., M.Sc. Queen's Asst. Prof.
Rowntree, Gertrude, B.A. Asst.
Chapman, C. W., B.A. Asst.

Classics

Fox, W. S , M.A. McM., Ph.D. J.H.U., Dean of College of Arts Prof.
Neville, K. P. R., M.A. Harv., Ph D. Corn. (C. & Hist) Prof.
Auden, H. W., M A. Camb. Prof.

Economics, v. Polit. Econ.

Elocution

Walker, Jean I. Instr.

English

Tamblyn, W. F., M.A. Tor., Ph.D. Col. Prof.
Spenceley, J. A., B.A. Tor., Ph.D. Harv. Asst. Prof.
Martin, W. Clifford, Ph.D. Corn. Asst. Prof.
Albright, Evelyn, B.A. Tor. Instr.
Neville, J. T., M.A. Lectr.

French and Italian

Shanks, L. P., Ph.D. Corn. Prof.

French and Spanish

Meras, E. A , B.A. Coll. of City of N.Y. Asst. Prof.
Méras, L. R., Ph.D. Neb. Instr.
Collin, W. E., B. ès L. Toulouse Instr.

Geology [Assoc. Prof.
Russell, J. W., M.A. McM.

German
James, N. C., B.A. Tor., Ph.D. Halle Prof.
Allen, R. A., M.A. Tor. Instr.

Hebrew [Prof.
Waller, C. C., M.A. Camb., D.D.

History
Dorland, A. G., B.A. Qu., M.A. Yale Prof.
Landon, F., M.A. Assoc. Prof.

Mathematics
Kingston, H. R., M.A. Qu., Ph.D. Chic. Prof.
Patterson, W. J., M.A. Qu. Prof.
Woods, A., M.A. Qu. Instr.

Medicine, v. *infra*

Philosophy
McIntosh, W. R., B.A. Tor., B.D. Knox Lectr.
Jewett, E. W., B.A. Tor. Lectr.

Physics [Prof.
Dearle, R. C., B.A., Ph.D. Tor.
Allen, R. L., M.A. Mt. All. Asst. Prof.
Foster, Willena, M.A. Tor. Instr.
Brodsky, Capt. G., M.A. Camb. Instr.

Physiology
Miller, F. R., M.A., M.B. Tor., M.D. Mun. Prof.
Laughton, N. B., B.A. Tor. Instr.
Waud, R. A., M.D. Instr.

Political Economy
Freeman, R., M.A. McM., Litt.B. Ox. Assoc. Prof.
MacDonald E. P. W., M.A. Queen's Instr.
Perrin, F. E., B.A. Tor. Lectr.
Curran, F. H., B.A., LL.B. Lectr.

Psychology [Lectr.
Sage, G. B., M.A. Trin., D.D.

Zoology
Robertson, A. D., B.A. Tor. Prof.
Detwiler, J., M.A. Qu., Ph.D. Corn. Asst. Prof.

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Eye, Ear, Nose, Throat
Thompson, S., M.D. Prof.
Brown, W. J., M.D., C.M. McG. Instr.
Armstrong, J. R., M.D. Instr.

Medicine
Macgregor, J. A., M.D. Prof.
Childs, J. R. N., M.D. Assoc. Prof.
Hale, J. C., M.D., C.M. McG. Assoc. Prof.
Watson, E. M., M.D. Asst. Prof.
Fisher, S. M., M.D. Instr.
Campbell, F. J. H., B.A., M.D. Instr.
Hughes, F. W., M.D. Instr.
Bowman, J. T., M.D. Instr.
Pratten, F. H., M.D. Tor. Instr.
Ferguson, D. D., M.D. Instr.
Thompson, F. G., M.D. Instr.

Obstetrics and Gynæcology [Prof.
Ferguson, R., B.A. Tor , M.D.
Williams, E. L., M.D. Assoc. Prof.
Black, H. H., Ph.B., M.D. Asst. Prof.
Clegg, F. R., M.D. Instr.
Tew, W. P., M.B. Tor. Instr.
Kingswood, R. C., B.A., M.D. Instr.

Pathology and Bacteriology
Bullard, H. H., A.B. Missouri, Ph.D. Tul., M.D. J.H.U. Prof.
Luney, F. W., M.D., D.P.H. Assoc. Prof.
Ramsay, G. A., M.D. Instr.
Ballantyne, E. N., B.A., M.D. Instr.
Tew, W. P., M.B. Tor. Instr.
Lamont, J. A., M.D. Instr.
Fletcher, M. C. G., M.D. Instr.

Pediatrics
Tillmann, W. J., M.D. Prof.
Lindsay, J. C., M.B. Tor. Asst. Prof.
Ferguson, J. I., M.D. Asst. Prof.
Denney, W. L., M.D. Instr.
Little, H. S., M.B. Tor. Instr.

Pharmacology
Crane, J. W., M.B. Tor. Prof.
Le Touzel, J. R., M.D., C.M. McG. Asst. Prof.

Psychiatry [Assoc. Prof.
Robinson, W. J., M.B. Tor.
Stephenson, G. H., M.B. Tor. Assoc. Prof.

Public Health
Hill, H. W., M.D., D.P.H. Tor., Dean of Inst. of P.H. Prof.
Downham, W. S., M.D., D.P.H. Lectr.

Radiology
McNeill, G., M.D., F.A.C.S. Prof.

Surgery [Prof.
Williams, H., M.D., F.R.C.S.
Wilson, J. C., M D. Instr.
Grant, A. J., M.D. Instr.
Ramsay, G. A., M.D. Instr.
Pritchett, L. W., M.D. Instr.
Reynolds, R. P., M.D. Instr.
Post, A. R., M.D. Instr.
Busby, E. D., M.D. Asst. Prof. G.U. Surgery.

AFFILIATED INSTITUTIONS

HURON COLLEGE. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ.: Rt. Rev. Bp. of Huron, D.D., Lectr. in Bib. Exeg.; F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist.; Dean L. N. Tucker, M.A., D.C.L., D.D.

ASSUMPTION COLLEGE. President, Prof. of Greek, D. L. Dillon, B.A. Eleven other Profs. of Arts subjects.

URSULINE COLLEGE. Dean and Prof. of French, Mother St. Anne. Twelve other Profs. of Arts subjects.

CONSERVATORY OF MUSIC, BRANTFORD, ONT. Principal, W. Norman Andrews, Dip. Leip.

GENERAL INFORMATION (v. also p. 322)

Incorporated by an Act of the Provincial Legislature in 1878 as a College in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control.

FACULTIES. Colleges of Arts, Medical School, Public Health.

DEGREE COURSES. 4 yrs. (from Junr. Matricn.), B.A.; 1 yr., M.A. and M.Sc.; 6 yrs., M.D. Attendance on part of the classes may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 1 yr. before they can graduate. D.P.H. and C.P.H.N. courses (1 yr.) provided for graduates in Med. and graduate nurses respectively.

Courses leading to B.A. in *Library and Secretarial Science*, B.S. in *Nursing* and *Doctor of Public Health* (a 2-year course following M.D. degree) offered for the first time in 1924–25. 4-year honour course in *Commercial Economics*.

PUBLICATIONS. *Calendar* (May); *Univ. Gazette*, weekly during term.

THE YEAR 1923–24

GRANTS. Provincial, $300,000 for current expenditure; City, current, $55,000; County, capital, $20,000.

NEW BUILDINGS. College of Arts ($500,000), Natural Science ($450,000),

and heating plant ($100,000), occupied for classes, session of 1924–25, formally opened Oct., 16, 17, 1924.

NEW APPOINTMENTS. W. Clifford Martin, Ph.D., Asst. Prof. of English (from Univ. of City of New York).

NEW COURSES. V. *supra*—Degree courses.

CHANGES IN ORGANIZATION OF THE UNIVERSITY—powers, constituency, Senate, etc., authorized by the Univ. Act, passed in 1923, became operative.

ATTENDANCE. Assumption College, 33; Univ. College, 489 (including women—171); Ursuline College, 55 (women—35); Medical School, 100 (w.—2); Public Health, 9 (w.—8); Total (omitting duplicates), 639 (w.—198). *Fellowships*: 2 Ontario Govt. Fellows in France, H. Dalgleish and Inez Arosamena; Wallace K. Ferguson (Mediæval Hist., Cornell Univ.).

DEGREES CONFERRED (1924). LL.D., 3; M.A., 5 (women—2); M.Sc., 5; D.P.H., 1; M.D, 25 (w.—1); B.A., 64 (w.—29); C.P.H.N., 6 (w.).

EXTENSION WORK. 3 classes given on request in evenings; 2 W.E.A. classes; public lectures, one each week throughout term; 140 lectures in 35 centres.

THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD

CHAIRMAN OF THE GOVERNING BODY—Sir ARTHUR E. SHIPLEY, G.B.E., LL.D., Sc.D., F.R.S.

VICE-CHAIRMAN—Lieut.-Col. Sir DAVID PRAIN, C.M.G., C.I.E., F.R.S.

PRINCIPAL—Dr. H. MARTIN LEAKE, M A., Sc.D. Camb., F.L.S.

SECRETARY—ALGERNON ASPINALL, C.M.G., B.A.

REGISTRAR—A. G HOWELL, St. Augustine, Trinidad.

PROFESSORS, ETC., January 1, 1925

Agronomy—Dash, J. Sydney, B.S.A. McGill

Botany—Harland, S. C., D.Sc. Lond., F.L.S.
Lectr.—Cheesman, E. E., B.Sc. Lond., A.R.C.S.

Chemistry—Hardy, F., M.A., Dip. Agr. Camb.
Lectr.—Turner, P. E., B.Sc. Lond.

Economics—Shephard, C. Y., B.Sc. Econ. Lond.

Zoology and Entomology—Ballou, H. A., M.Sc. Massachusetts Agr. Coll.
Lectr. — Withycombe, C. L., Ph.D., M Sc. Lond , D.I.C.

Mycology and Bacteriology—Ashby, S. F., B.Sc. Edin.

Sugar Technology—Boyd, Overton F., B.A. Louisiana State Univ.

GENERAL INFORMATION

Incorporated in Sept. 1921 as the outcome of recommendations made by the Tropical Agricultural College Committee (appointed by Viscount Milner in 1919) in their Report (Cd. 562), the College aims at promoting the study of and conducting research in Tropical Agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases. The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The funds of the College are derived from contributions from Colonies and industries participating in the movement and an Imperial grant. The Imperial Department of Agriculture, which was founded in 1898 and was amalgamated with the College on April 1, 1922, is administered by the Imperial Commissioner of Agriculture, now the Principal of the College, who corresponds directly with the Colonial Office and the Governments concerned. He supervises the botanic and experiment stations at Grenada, St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands, and advises the Government of

Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agriculture in schools. Up to March 1922 the Department issued the *Agricultural News*, a popular fortnightly review circulating widely in the tropics of the old and new worlds, and the *West Indian Bulletin*, a scientific quarterly dealing specially with tropical research and experiment. Numerous pamphlets dealing with special subjects and annual progress reports on sugar-cane experiments and the work of botanic stations were also issued. The College publishes monthly *Tropical Agriculture*. On the transfer of the headquarters of the Department to Trinidad in Sept. 1922 the services of all the officers were retained in the staff of the college, and remain available for duty in connexion with the work of the Department.

The Foundation Stone of New Buildings and Laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924.

An Instructional sugar factory, towards which British sugar machinery manufacturers are contributing plant worth £20,000, is being set up.

The academic year extends from October 1 to June 30

COURSES. (1) Three-years' Diploma Course for giving a thorough training in the science and practice of T.A. to students intending to become tropical planters, investigators, or experts in different branches of Agr. Science or Technology; (2) one-year course in elementary Agr. Science for students unable to afford (1), with some practical acquaintance with the scientific side of tropical planting and the more up-to-date and efficient methods of production and management; (3) courses for Agr. officers selected for Colonial service in T.A. departments.

POST-GRADUATE RESEARCH. Facilities are provided for work in connexion with problems arising in T.A., and more especially those connected with plant pathology, agronomy, and physiological botany.

TUITION FEES: £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees; other students from contributing Colonies, £25 p.a.

Further particulars are obtainable from either the Secy. at 14 Trinity Sq., London, E.C.3, or the Registrar, St. Augustine, Trinidad, B.W.I.

STUDENTS in 1923–24: Diploma, 18; graduate, 6; special, 3.

THE UNIVERSITIES OF AUSTRALIA

ADELAIDE MELBOURNE QUEENSLAND, BRISBANE
SYDNEY TASMANIA, HOBART WESTERN AUSTRALIA, PERTH

GENERAL DESCRIPTION

[Summary, corrected to Sept. 1924, of information issued in June 1919 by an Administrative Committee of the Australian Universities through the Education Service of the Australian Imperial Force of which the Committee was a part.]

THE Universities of Australia are dotted all round the Commonwealth and are at great distances from one another and in diverse climates. The mean annual temperatures range between about 70° at Brisbane and 54° at Hobart. Western Australia's nearest neighbour is Adelaide, which is about 1600 miles away by the shortest route. There is, naturally, not much moving about of students from one to another; but in the three younger some of the principal professional courses are not yet provided, and it frequently happens that a student after working in one of them for a year or two transfers to one of the older and more central Univs. where he is granted status in his professional course. As the Univs. are not all uniformly developed, they cannot be quite uniform even in their requirements for entrance. But they exercise all possible reciprocity in the interchange of students. They also give students who come from British Univs. the same status as at Home. Typical of their attitude in this regard is the By-law of Sydney: Undergraduates of other Univs. may, at the discretion of the Professorial Board, be admitted *ad eundem statum* in this Univ. without examn, provided always that they shall give sufficient evidence of their alleged status and of good conduct.

THE COLLEGE SYSTEM. When the Univs. of Sydney and Melbourne were founded provision was made for the establishment of "Colleges of Residence in connexion with different religious denominations." So there came into existence at Sydney, and on the Univ. grounds, "St. Paul's" (Church of England), "St. John's" (R.C.), "St. Andrew's" (Presb.), an undenominational College for women, and "Wesley" (Meth.). A Roman Catholic College for women is now (1924) being established. Similarly at Melbourne, the first College, "Trinity" (C. of E.), was opened in 1872, and was followed by "Ormond" (Presb.), "Queen's" (Meth.), and "Newman" (R.C). Queensland has "Emmanuel" (Presb.), "St. John's" (C. of E.), "King's" (Meth.), and an "undenominational" Women's Coll., as well as St. Leo's (R.C.). There are no other Univ. Colls. in Australia. All these are self-governing and receive no financial aid from the Univ. They accommodate and teach only a small proportion of the whole number of Australian students; but their importance and influence on Univ. life are not to be gauged by this circumstance.

CONSTITUTIONS. The outstanding feature of the Australian Univ. constitutions is the definite and considerable part taken by the State

in appointing members of their governing bodies. This is due to the large contributions made to them out of public funds. The newest Univs. have admitted divers other persons, such as representatives of commercial, industrial, scientific, and educational societies, or benefactors, to participate with their graduates in the election of senators or councillors. The constitution of Sydney is the simplest; that of Queensland is outwardly the most comprehensive in its legal conception of the Univ. as "a body corporate consisting of Senate, Council, and graduate and undergraduate members." In Melbourne by a recent revision of the constitution undergraduates elect 2 members of the governing body (Council). In Western Australia undergraduates are enrolled by Act of Parliament in a "Guild" which is given a representative on Convocation, the electing body that may also disallow or propose amendments in any legislation of the Senate. The nomenclature is not consistent. The governing body may be called in one place "Senate," in another "Council"; and the assembly of graduates may be called "Senate"—a term never applied to the professional body. Sydney alone has a whole-time administrative head; see p. 445.

ADMISSION. Attempts have been made to devise a common matricn., but have been given up. The reason lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, *e.g.*, Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs., provided (Sydney) they give evidence of distinct educational merit and are recommended by a three-fourths majority of the Faculty of Arts and approved by the Senate.

THE UNIVERSITY AND THE PROFESSIONS. The Univ. has always at least one professional school. Thus Queensland's School of Engineering has a high repute. Western Australia is making a specialty of Agriculture. Tasmania has no professional school but Law. Sydney, Melbourne, and Adelaide have each a wide range of schools.

The Engineering schools give a thorough practical training. Rather high entrance requirements are called for in each of the Univs. The curricula extend over 4 yrs. (W. Australia, 5 yrs.), and are arranged with the definite view of giving a sound knowledge of the properties of materials, and the principles of Maths., Phys., Chem., and Mechanics underlying all engineering work, before specialized professional subjects are taken. Owing to several large bequests the Russell School of E. in Sydney is the most fully equipped. It maintains separate depts. for Civil, Mech., and Elec. E., for Mining and Metall., and for Archit. and Building Construction. The corresponding Schools in Queensland and Melbourne are also well equipped, and those of Adelaide and Western Australia, although not so comprehensive, are efficient. Systematic arrangements are made for students to obtain practical experience in workshops or in the field during vacations. The Univer-

sity training is widely recognized as a necessary qualification for professional positions. As a rule graduates in Civil E. enter the State or Federal Public Works Depts., which carry out practically all the large national engineering works, very little in the way of Public Services being left to private enterprise. The experience thus to be gained is very good, although it must be admitted that the emoluments are relatively low. Many graduates in Mining E. have been absorbed in the mining industries of Australia, but a great number—probably the majority—find their way to the larger mining centres of the world where the financial rewards are usually greater. There is a good deal of industrial and commercial engineering in Australia, and men wishing to have the freer scope which this offers usually take the courses in Mech. and Elec. E. In Archit., especially the domestic kind, there is a promising outlook in practically all parts of the Commonwealth.

The Medical Schools of Sydney, Melbourne, and Adelaide are among the best in the Empire. They comply with the requirements of the General Medical Council, and there is full reciprocity, in respect of registration of degrees as qualifications to practise, between the U.K. and Australia. The greater part of the Australian medical profession is now trained in these 3 Univs., and distinguished teachers and research workers are continually being brought in to supplement their staffs. High positions are also held by their graduates outside Australia. It is generally felt by Australian medical men who have had experience in Europe among men trained in the Schools of the U.K , that their own training has been even more practical. It is thoroughly British in scope and method, but, in the proportion of hospital facilities to the number of students, it has had some advantages over the training received by the average British student. Whether this impression is or is not correct, it remains true that Australian medical education has reached a high standard, and the equipment of the Faculty is always good and often excellent. Sydney has the advantage of an immense public hospital, on its own grounds, with another a short tramway journey distant. In Melbourne general hospitals containing 500 beds, and women's and children's hospitals, are close to the Univ. The Genl. Hospl. at Adelaide is within half a mile of the Univ , and after the 2nd yr. the greater part of students' time is spent in it. The work done may also be supplemented by study, after graduation, in the " Australian Institute of Tropical Medicine " at Townsville in Queensland ; and a Diploma in Trop. Med. is attainable. The Hall Research Institute in connexion with the Melbourne Hospl. provides facilities for post-graduate work.

In all the Univs. the Faculty of Arts is becoming, with due help from the Faculty of Science, a professional school for teachers. Sydney and Melbourne have Profs. of Education who are also heads of the State Training Colleges. Adelaide has the State Director of Education on its Ed. Committee and Council, and gives a Diploma to graduates in Arts and Science who take a prescribed course of prof. study and have proper experience of teaching. There is a course in Ed. at Queensland, and every facility is given to teachers to graduate in Arts. Western Australia has a Dept. of Ed., but it is not yet fully organized. An

excellent professional equipment for teaching can now be obtained in Australia, and the material rewards of teaching are likely to increase.

The less anciently established professions become associated with the Univs. on obtaining a higher status or a legal organization. Thus Vet. Science, the practice of which is as yet legally controlled in only three States, is now regularly entered in one of these (Victoria) through a Univ. course of study. In N.S.W. its legal constitution recently followed the institution of a Faculty of Vet. Science at the Univ. of Sydney. In Western Australia, whose Univ. also has a Dept. of Vet. Science, the law requires such qualifications for vet. practice that a Univ. training will become the natural approach to the professional in that State.

PERIODS OF STUDY. The Univ. requires 3 yrs.' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened; in Melbourne and Sydney it is 5⅔ yrs. and 6 yrs. The time needed to graduate in law may vary; thus Melbourne course takes 4 yrs., but Sydney allows Arts graduates to do their professional studies in 2 yrs. To graduate in Engin. requires 4 yrs.; in Vet. Science, in Agric., and in Dentistry also 4 yrs., subject to certain minor variations.

ACADEMIC TERMS. In Australia qualifications are reckoned in "Years" and "Courses." But each "Year" is divided into "Terms." The number of Terms in the Year is usually 3. The Year begins in March and ends in Nov. or Dec. The "Long Vacation" comprises Dec., Jan., and Feb., which are the warmest months. Melbourne has 4 terms, the First of 12 weeks; the Second of 10; the Third of 10; and the Fourth, or Examn. Term, of 4. Tasmania also has 4 terms. Queensland has 3 terms and 2 Examn. Periods.

FEES AND COST OF LIVING. The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £175 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 30s. a week. Meals at the cost of 6d. to 2s. 6d. can generally be obtained at the University by members of "Unions" and others. Sydney University Union has a Refectory seating 450, and one half of it is open to all members of the University and their guests. A developed Union at an Australian University also provides all the comforts of a non-residential Club for about £1 a year. Exercise in rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms.

Residence at a College is optional. College fees for residence and tuition range from 80 to 100 gs. per annum. Thus Wesley College, Sydney (Methodist), charges 28 gs. a term for resident students; Ormond, Melbourne (Presb.), from 95 to 110 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland (Anglican), has fees of £21 per term. Special arrangements can always be made for residence during vacations and, for an example, Ormond then charges 2 gs. a week. Many men live in College on a total

income of not more than £150 a year; it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs. The assistance from Scholarships and Bursaries is generous.

A list of Univ. Fees payable at Melbourne and Sydney is given below. Queensland has composition fees for complete degree courses, which are from 12 to 18 gs. a year in Arts, 20 gs. in Science, and 21 gs. in Engineering. The corresponding fees at Tasmania are £14 to £17 in Arts, £20 in Science, £22½ in Engineering. W. Australia charges fees for examns., degrees, and certifs., but tuition fees only to overseas students. Fees at Adelaide do not differ widely from those at Melbourne and Sydney.

Melbourne. Matricn., 1 g.; Degree, 7 gs.; Degree Courses in Arts, 3 yrs., about 52 gs.; Science, £25 each yr.; Agric., 4 yrs., 81 gs.; Laws, 4 yrs., about 90 gs.; Med., 5⅔ yrs., £225 (including Hospl. Fees); Engin., 4 yrs., £100; Vet. Sc., 4 yrs., £100; Music, 3 yrs., at conservatorium, 32 gs. p.a.

Sydney. Matricn., £3; Degree in Arts, Econ., Sc., Agric., or Vet. Sc., £3; M.D. and M.S., £20; other Degrees, £10; Degree Courses in Arts, 3 yrs., £75; Econ., 4 yrs., £96; Law, £90 (Arts subjects additional); Med., £196 (excluding Hospl. Attendance, 15 gs., and practical Midwifery, 5 gs.); Dent., 4 yrs., £150 (including Dent. Hospl. £10 p.a.); Science, 3 yrs., £99; Engin., 4 yrs, £154 (Min. and Met., £168); Agric., 4 yrs., £118 : 10s.; Vet. Sc., 4 yrs., £114; Archit., 4 yrs., £168.

FREE PASSAGES TO EUROPE. The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates holding scholarships proceeding to Europe to continue their studies: Adelaide, 3; Melb., 4; Queensland, 3; Syd., 4; Tasm., 2; W. Aust., 3; N.Z., 3; available by any of the following Lines: Aberdeen, Blue Funnel, Orient, P. & O., and, for N.Z. graduates only, N.Z. Shipping and Shaw, Savill, & Albion.

CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs. established a Standing Advisory Committee to deal with matters of common interest. The temporary headquarters of the Committee are in Melbourne. The Chancellor of Melbourne Univ. acts for the time being as Convener of the Committee, and the Registrar as Honorary Secretary.

A conference of representatives of the Univs. has been held annually since 1921. Among the topics discussed are: Synchronizing the short vacations of autumn and spring; uniformity in standards and titles of Australian degrees; a common first year for degree courses in all faculties; entrance requirements; a London buying agent; public service in mandated territories; cheap railway fares for delegates attending conferences; customs duties; income-tax on gifts to universities; a Federal Examining University; establishment of a Ph.D. degree; a Central School of Forestry; a sabbatical year; "general science" in public examns.; a catalogue of periodicals.

AUSTRALIAN STUDENTS IN THE HOME UNIVERSITIES, v. Appendix XXII.

UNIVERSITY OF ADELAIDE

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir G. J. R. MURRAY, K.C.M.G., B.A., LL.M., Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Prof. W. MITCHELL, M.A., D.Sc.

REGISTRAR—F. W. EARDLEY, B.A.

PROFESSORS, LECTURERS, ETC., September 1, 1924

Accountancy
Booth, S. R., M.A. Camb. Lectr.

Agriculture
Richardson, A. E. V., D.Sc. Melb., M.A. Prof. (1. 1. 25).

Anatomy [Elder Prof.
Wood Jones, F., M.B., M.R.C.S., L.R.C.P., D.Sc. Lond.
Scott, M. L., M.B., M.S., F.R.C.S. Lectr.
Mead, C. S., B.A., M.B., B.S. Demr.

Bio-Chemistry, v. Physiology

Botany [Prof.
Osborn, T. G. B., D.Sc. Manc.
Samuel, G., B.Sc. Lectr. (Plant Path.).
Wood, J. G., B.Sc. Demr.

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Cooke, W. T., D.Sc. Lectr.
Pennycuick, S. W., M.Sc. Q'ld. Lectr.
Finlayson, H. H. Asst. Lectr. & Demr.

Classics and Comp. Philol. and Lit. [Hughes Prof.
Naylor, H. Darnley, M.A. Camb.
Hollidge, D. H., M.A. Asst. Lectr.

Commerce, v. also Acctcy.
Heaton, H., M.A. Leeds, M.Com. Birm., D.Litt. Leeds (Econ. & Indust. Pract.) Lectr.
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Finlayson, R. N., LL.B. (Indust. and C. Law) Lectr.
Ham, W. (Aus. Industries) Lectr.
Sutton, J. (Bank. & Exch.) Lectr.
Steele, R. M., A.C.U.A. (Com. Practice) Lectr.

Dental Science, v. *infra*

Economics, v. also Com.
Mackay, A. L. G., B.A., Dip.Ed. Syd. Asst Lectr.

Education [Lectr.
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Engineering, v. also Mining
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Walker, Miss Marjory R. Tutor.

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French
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Oldham, W., M A. Asst. Lectr.

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Dawbarn, Mary C., B.Sc.
Finlayson, Miss Constance M. B., Bio-Chemist.

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Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra.*)

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Pulleine, R. H., M.B. Syd. Lectr.

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Surgery, Clinical and Operative
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Trott, L. W., D.D.S. (Mat. Med., etc.).
Fuller, W. (Histology).
Millhouse, E. J. (D. Surg. & Path.).
Smeaton, B., M.B., B.S. (Surg.).
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Brown, Gilbert (Anæsthetics).

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The Univ. was established by Act of the Provincial Legislature in 1874 with endowments of £40,000 from Sir W. W. Hughes and Sir T. Elder, and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000) as well as a site of 5 acres in the city and a recurrent money grant. Sir T. Elder died in 1897, leaving £65,000 to the Univ. In 1911 the State Parliament sanctioned an additional annual grant and took power to appoint 5 additional members of the Council which, until then, consisted of 20 elected by the Senate. In 1914–19 Mr. Peter Waite presented to the Univ. approximately £55,000 and extensive estates, including a mansion, and in 1920 Sir J. L. Bonython gave £40,000. The annual Govt. grant raised in 1919 by £20,000 is now about £35,000. The value of the endowments is £400,000.

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BENEFACTIONS. Adelaide Co-operative Society (£150), Commercial Bursary; Dr. J. Leon Jona (£100), Students' Loan Fund; T. E Barr Smith (£100), Essay Prize (League of Nations).

NEW BUILDINGS. New wing added to Prince of Wales Building for Geological Dept. (cost £4690); new building for Engineering and Physics Depts. commenced.

NEW POSTS. Prof. of Agric. and Director of Waite Agric Research Institute; Asst. Lectr. in Physics; Demonstrators in Physics; Tutor in Economics; Tutor in English.

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Wilson, H. C. Lectr.

French, C. H.
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Clark, E. J., F.R.V.I.A. Lectr.

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Bio-Chemistry, v. Physiology

Botany & Plant Physiology

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Patton, R. B., B.Sc.
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Hartung, E. J., D.Sc.
Assoc. Prof.

Green, W. H., D.Sc. Sr. Lectr.

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Sr. Lectr. (Organic Chem.)

Anderson, V. G.
Lectr. (Chem. Works Practice).
Sugden, Ruth, M.Sc. Sr. Demr.
Ampt, G. A., B.Sc. Sr. Demr.
Scott, Margaret E., B.Sc. Sr. Demr.

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Scutt, C. A., M.A. Camb. Prof.

Classics Sr. Lectr.
Kerry, W., M.A. Camb. and Melb.
Cornwall, E. W., B.A. (E.).

Dentistry, v. Affiliated Colls.

Dutch
Lodewyckx, A. (v. German) Instr.

Economics, v. Pol. Econ.

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Sharman, M. S., M.A., M.Sc. (Maths. & Sc.) Sr. Lectr.
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Sr. Lectr. (Psychology and History of E.).
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Lectr.

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Kernot, W. N., M. Mech. E., M.I.C.E.
Assoc. Prof. (Design, etc.).
Upton, T. H., O.B.E., M.Sc., M.C.E., A.M.I.C.E.
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Sexton, C. W. N., B.C.E. (Civ. E.).
Brown, E. B., M.Sc., A.C.G.I.
Sr. Lectr. (Elec. E.).
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Millar, S. J., B.E. (Lubrication).
Callaway, A. E., C.E. (Roads).
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Karagheusian, V. N. T. Lectr.
Schollick, Margaret S.
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Chapman, F., A.L S. (Palæont.)
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1 other Demr.

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Penington, Frances E., M.A.
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Moore, J. H., B.A., LL.M. Tutor.
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ORMOND COLLEGE (Presbyterian). Master, D. K. Picken, M.A. Camb., Glas., and Melb.; Vice-Master, H. W. Allen, M.A. Other Lectrs.: Miss E. I. Mollison, M.Sc.; F. H. Campbell, D.Sc.; Mrs. E. Wood, B.A.; E. J. G. Pitman, M.A., B.Sc.; Miss H. W. S. Martin, B.A.; H. R. Dew, M.B., B.S., F.R.C.S.; C. H. C. Searby, M.B., B.S.; O. de R. Foenander, LL.M.; Miss K. A. Lush, M.A.

QUEEN'S COLLEGE (Methodist). Master, Rev. E. H. Sugden, B.A., B.Sc. Lond., Litt.D.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A. Resident Tutors: W. Ryan, S.J., M.A., F.G.S., Dip.Ed.; D. Kelly, S.J., M.A.; D. J. O'Donoghue, B.Sc., B.C.E.; J. X. O'Driscoll, B.A., LL.B. Non-Resident: R. O'Sullivan, M.B., B.S., F.R.C.S.; H. B. Devine, M.B., M.S.; T. P. Noonan, M.B., B.S.; Miss I. C. Cookson, B.Sc.; E. Prendergast, M.B., B.S.; T. King, M.B., B.S.; S. Aldus, B.Sc.; J. A. Clarebrough, D.D.S.

II. AUSTRALIAN COLLEGE OF DENTISTRY. President, W. S. Wilkinson, B.D.Sc., L.D.S., D.D.S.; Supdt., A. G. Poock, B.A., L.D.S. Other Lecturers (excluding those on Univ. staff): Finlay, G., L.D.S., B.D.Sc. (Op. D.); Allen, C. E., D.D.Sc. (Mat. Med.); Maclure, A. F., M.D., Ch.B. (Or. Surg.); Lewis, J. M., D.D.Sc. (D. Surg., etc.); Nicholls, E. B., D.D.Sc. (D. Anat.); Polack, J., D.D.Sc. (Met.); Robertson, A. W. D., M.D., B.S. (Anat.); Tuckfield, W. J. (D. Mech. and Met.); Sissons, A. T., B.Sc. (Chem.); Down, C. H., L.D.S., B.D.Sc. (Op. Tech.); Clark, J. K., L.D.S., D.D.Sc. (D. Anat.).

GENERAL INFORMATION (v. also p. 419)

The Univ. was founded in 1853 by Act of the Victorian Legislature. In 1923 a new University Act was passed, increasing the annual endowment for general purposes to £45,000, providing an additional grant of £8500 for Univ. Extension, a Department of Commerce, and Research, and making constitutional changes. The Council is now composed of 31 members — 10 elected by graduates, representatives of the teaching staff (5), affiliated colleges (2), and under-graduates (2), 8 appointed by the Govt. (3 being members of Parliament, the others representing business interests and technical schools), 2 *ex officio*, and 2 co-opted members. The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in the Act to the Professorial Board and the Faculties. In 1923 the total of Government Grants amounted to £62,537, the total revenue to £154,920, and the total of invested funds to upwards of £290,000. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

LIBRARY, including the Med. and Chem. Departs., 45,000 vols. MUSEUMS AND LABS., Anat., Biol., Engin., Geol., Path. (18,000 specimens), Vet. LABORATORIES, Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3 head stamp battery), Physics, Physiol. VET. RESEARCH INSTITUTE. Werribee RESEARCH FARM. HALL RESEARCH INSTITUTE in connexion with Melbourne Hospl.

FACULTIES. Arts, Sc., Law, Med., Dent., Vet. Sc., Engin. (including Archit., Metall., Mining), Agric. Conservatorium of Music (Director).

DEGREE COURSES: 3 yrs.—B.A. (ordy. and with Honrs.), B.Sc., Mus.Bac.; 4 yrs.—B.Sc. (Honrs.), LL.B., B.D.Sc., Lic.V.Sc., B.V.Sc., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agric.Sc.; 5½ yrs.—M.B., B.S.

The first 2 years for the LL.B. may be those of the Arts course. The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—LL.M., M.V.Sc.; 2 yrs.'—M.A., M.Sc., M.D., M.S., D.D.Sc., M.C.E., etc.; 3 yrs.'—D.V.Sc.; 4 yrs.'—D.Litt., D.Sc., LL.D.; 5 yrs.'—D.Eng.; 6 yrs.'—Mus.D. Courses of MEDICAL POST-GRADUATE STUDY arranged by special Committee on which Univ. is represented.

DIPLOMAS (which except Dip.Ed. can be taken without Matricn.) · Educn., 3 yrs.' course, which may include 2 yrs. of the course for any degree in the Univ.; Analyt. Chem., 9 mos. following Final Hons. in Chem.; D.P.H., open to Med. grads. of Melb. of 1 yr.'s standing and persons who have for 1 yr. been qualified for registration as Med. practr. in U.K., 9 mos.; D.T.M., open to Aus. Med. practrs. of 1 yr.'s standing, 3 mos.; Metall. or Mining, 3 yrs.; Archit., 4 yrs.; Agric., 3 yrs., of which the 3rd is spent at an Agric. Coll.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of Training Colleges are admitted at half fees.

SCHOLARSHIPS, ETC. Aggregate annual value about £8914. Among the more important are £100 in Pathology, £100 for Econ. Research, £100 (for 2 yrs.) in Geol. and in Vet. Anat., £100 in Anat., £100 for Scientific Research.

RESIDENCE. The Affiliated Colls. (v. *supra*) accommodate over 400 resident students.

ADULT EDUCATION. Tutorial classes are conducted in the city and suburbs and 6 country centres.

PUBLIC EXAMINATIONS. School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service, the School Leaving certif. qualifies for matricn. The Univ. also arranges for the Inspection of Secondary Schools.

PUBLICATIONS. *Calendar*, 3s. net, includes list of publicns. by members of staff; *Univ. Mag.*; *Univ. Review*; *Speculum* (Med. Students' Journal); *Examn. Papers*, 1s.; *Students' Handbook*, 1s.; *Handbook of Pub. Examns.*, 2s. 6d.; *Conservatorium Prospectus*; *Manual of Pub. Examns. in Music.*

The UNIVERSITY PRESS, founded in 1921, has published several important books by members of the Univ., embodying results of research in subjects peculiar to Australia. Messrs Macmillan & Co. act as distributing agents. It conducts an exchange business in text-books, and caters for students' requirements in stationery and apparatus.

THE YEAR 1923–24

BENEFACTIONS. Sir J. M. Higgins, £4500; Victorian Chamber of Manufactures, £1500 p.a. for 10 years; late Sir Samuel Gillott, £34,400; C. D. Lloyd, £1000; Mrs. S. L. Smith, £500; Mrs. B. Thompson, £500.

DEATHS. J. L. Glasson, Sir J. E. Mackay.

The NEW CHAIR of Metallurgy was occupied by Dr. Greenwood from Manchester. Leave of absence TO VISIT OTHER COUNTRIES was granted to Profs. Laby and Scott (Europe), Assoc. Prof. Lodewyckx (Europe), S. S. Cameron (America), G. Buchanan (Europe), T. W. Sinclair (on municipal business), Miss Penington (Fiji).

RETIREMENTS. Sir David Masson, Prof. Emeritus. RESIGNATIONS: H. E. S. Melbourne, to take private practice (Surveying); W. M. Holmes, for employment in the Observatory; A. L. Rossiter, for employment in Educn. Dept.; W. Thorn (Elec. Engin., to gain experience in England); R. Lawson, appointed Prof. of Educn. in Univ. of Otago.

DEGREES CONFERRED. B.A. and B.Sc., 177; LL.B., 34; M.B. and B.S., 107; B.C.E., B.M.E., B.Met.E., B.E.E., and B.Mech.E., 25; Mus.Bac., 2; B.D.Sc., 36; B.Agr.Sc. and B.V.Sc., 9; Masterships, 64; Doctorates, 14.

NUMBER OF STUDENTS. Total (except Music), 2283, including women, 636; evening, 201; research, 12; full degree course, 2098. Attending lectures in Med., 648; Arts, 591; Law, 285; Science, 251; Engineering, 192; Dentistry, 119; Educn., 65 (including 30 free students nominated by Educn. Dept.); Archit., 62; Agric., 29; Vet. Sc., 14; Research, 12; Journalism, 11; Pub. Health, 4.

ADULT EDUCATION. Tutorial class students, 575.

UNIVERSITY OF QUEENSLAND, BRISBANE

CHANCELLOR—Rt. Hon. Lt.-Col. Sir MATTHEW NATHAN, G.C.M.G., R.E., Governor of Queensland.

VICE-CHANCELLOR—Hon. A. J. THYNNE.

REGISTRAR AND LIBRARIAN—F. W. S. CUMBRAE-STEWART, D.C.L. Ox., Barr.-at-Law.

PROFESSORS, LECTURERS, ETC., June 27, 1924

Biology

Goddard, E. J., B.A., D.Sc. Syd. Prof.
Cayzer, A., B.Sc. Syd. Lectr.

Chemistry

Steele, B. D., D.Sc. Melb., F.I.C., F.R.S. Prof.
Bagster, L. S., B.Sc. Melb. (Applied C.) Lectr.
Jones, T. G. H., B.Sc. Syd., A.I.C. Lectr.
O'Connor, E. A., M.Sc. Melb. Sr. Demr. & Asst. Lectr.

Classics

Michie, J. L., M.A. Camb. Prof.
Castlehow, S., M.A. Ox. Lectr.

Engineering

Hawken, R. W. H., B.A., M.E. Syd., M.I.C.E. Prof.
Boyd, A., D.Sc. Lond., B.E., M.I.E.E., A.M.I.C.E. Lectr. (Mech. & El. E.).
Ross, C. N., M.Sc., B.M.E. Melb. Lectr. (Civ. E.).
Sr. Demr. & Asst. Lectr.
Munro, A. R., A.M.I.C.E., A.M.I.M.E.

English Language and Lit.

Stable, J. J., M.A. Camb. McCaughey Prof.

English and German

Robinson, F. W., M.A. Syd., Ph.D. Jena Lectr.

French

Schindler, C., M.A. Tempy. Lectr.

Geology and Mineralogy

Richards, H. C., D.Sc. Melb. Prof.
Bryan, W. H., M.Sc. Lectr.

History and Economic Science

Alcock, H., M.A. Ox. McCaughey Prof.
Melbourne, A. C. V., M.A. Adel. Lectr. in Econ. and Colonial H.
Gifford, J. L. K., M.A. Glas. Lectr.

Mathematics

Priestley, H. J., M.A. Camb. Prof.
Priest, H. J., B.A., B.Sc. Adel. Lectr.
Swanwick, K. Ff., B.A., LL.B. Syd. Evening Lectr.

Medical Psychology

Lowson, J. P., M.A., M.D. Edin. Research Prof.

Philosophy

Scott-Fletcher, M., M.A. Syd., B.Litt. Ox. Prof.
Kyle, W. M., M.A. Lectr.

Physics
Parnell, T., M.A. Camb. Prof.
Lusby, S. G., M.A. Syd. Asst. Prof.
Rimmer, T., M.Sc. Manc.
Sr. Demr. & Asst. Lectr.

Correspondence Studies

Jones, T. E., B.A. Syd. Director.
Darvall, Annie E., B.A. Asst.

RECOGNIZED RESIDENTIAL COLLEGES

EMMANUEL (Presb.). Principal—Mervyn Henderson, M.A. Camb.

ST. JOHN'S (C. of E.). Warden—Rev. W. H. W. Stevenson, M.A. Syd.

KING'S (Methodist). Master—H. H. Trigge, M.A., B.D.

ST. LEO'S (R.C.). Rector—Rev. E. A. Stanaway.

WOMEN'S (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.

GENERAL INFORMATION (v. also p. 419)

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 were appointed by the Government and 10 were elected by the Council (consisting of all members and past members of the Senate, graduates of the Univ. of 3 yrs.' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. Under the will of the late Sir Samuel McCaughey, the Univ. receives an annual income of about £8500.

The grounds, facing the Brisbane River and adjoining the Botanical Gardens, include, in addition to the main building and recreation grounds, 6 departmental buildings and the Central Technical College.

LIBRARY, 24,000 vols. LABORATORIES: Biol., Chem., Applied Chem., Engin., Geol., Metall. and Assaying, Physics.

FACULTIES. Arts, Science, Engineering.

DEGREE COURSES. 3 yrs.—B.A., B.Sc.; 4 yrs.—B.Sc. Honours, B.Sc. (Applied) in Industrial Chem., B.E. in Civ., Mech. and Elec., Chem., or Mining Engin.

A Diploma Course in Mech. and Elec. Engin. (may be followed in any approved Coll. or Instn.), 4 yrs.; a Diploma course of at least 2 yrs. for persons who have had 3 yrs.' practical experience of Journalism; a Diploma course in Commerce.

HIGHER DEGREES. M.A. and M.Sc., open to B.A. and B.Sc. of 2 yrs.' standing, through examn. (M.A., examn. and thesis). M.E., open to B.E. of 3 yrs.' standing, 25 yrs. of age, engaged in professional work. D.Sc. open to M.Sc. of 5 yrs.' standing by examn. and thesis.

EVENING LECTURES AND EXTERNAL STUDENTS. Evening students may extend their course over 5 yrs. in Arts and Sc. No evening work in Engin. subjects is done, but by 5 yrs. of evening work elsewhere exemption from the first 2 yrs. of the B.E. course may be obtained.

Persons who having matriculated are unable to attend lectures at or in connexion with the Univ. may pursue certain courses under the guidance of the Director of Correspondence studies. They may thereby, provided they pass the prescribed examns. (which may be held at local centres), qualify for a B.A. degree.

ADULT MATRICULATION. Candidates who have attained the age of 25 yrs. may be admitted to matricn. in the Faculties of Arts, Science, and Engineering upon passing a special examn.

SCHOLARSHIPS, ETC , FOR GRADUATES. 2 gold medals offered by Govt. for distinction at graduation; £100 for 2 yrs. for Chem. Research; £200 for 1 yr. for Engin. work; £250 for study outside Australasia; £300 for 3 yrs. (W. and E. Hall Foundation), of which 2 to be spent abroad in Engin. Research; £500 for 2 yrs. in Econ. Biol.

RESIDENCE. Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or boarding-house licensed by the Senate. Fees in the Colleges, including residence, commons, and tuition, 20 gs. a term (Women's £20, St. Leo's £20).

PUBLIC EXAMINATIONS are held by the Univ. annually in Nov. and Dec.: Junior, Junior Commercial, and Senior.

PUBLICATIONS. *Calendar*, 2s. 6d.; *Manual of Pub. Examns.*, 1s.

THE YEAR 1924

NEW POSTS. Garrick Prof. of Law; addl. Lectr. in Dept. of Biology.

DEGREES CONFERRED. B.A., 33 (including 14 women); M.A., 2; B.Sc., 10 (women 3); B.Sc. App., 1; M.Sc., 3; B.E., 6; M.E., 1.

NUMBER OF STUDENTS. Matriculated, 63, including 40 women.

UNIVERSITY OF SYDNEY

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir WILLIAM PORTUS CULLEN, K.C.M.G., M.A., LL.D., Chief Justice of N.S.W.

DEPUTY-CHANCELLOR—CECIL PURSER, B.A., M.B., Ch.M.

VICE-CHANCELLOR—Emeritus Professor M. W. MACCALLUM, M.A., LL.D., D.Litt.

REGISTRAR—W. A. SELLE, M.A.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

STUDENT ADVISER AND APPOINTMENTS OFFICER—Brig.-Genl. I. G. MACKAY, C.M.G., B.A.

TUTOR TO WOMEN STUDENTS—ISABEL M. FIDLER, B.A.

PROFESSORS, LECTURERS, ETC., October 1924

Accountancy, v. Com.

Agriculture

Watt, R. D., M.A., B.Sc. Prof.

Lectrs. :

Waterhouse, W. L., B.Sc.Agr. (Plant Path. and Agr. Bot.).

Wright, G. (A. Chem.).

Baker, R. T., F.L.S. (Forestry).

Wolstenholme, E. K., F.L.S. (Fruit Culture).

Anatomy

..... Challis Prof.

Burkitt, A. N. St. G. H., M.B., B.Sc. Assoc. Prof.

Lectrs. and Demrs. :

Maguire, F. A., D.S.O., M.B., Ch.M., F.R.C.S.

Coen, B. J., M.B.

Demrs. :

Storey, J. C., O.B.E., M.B., Ch.M., F.R.C.S.

Teece, L. G., M.D., Ch.M.

Edye, B. T., M.B., Ch.M., F.R.C.S.

Fisher, E. M., M.B., Ch.M.

Chapman, C. L., M.B., Ch.M.

Silverton, R. J., M.B., Ch.M.

Latham, O., M.B., Ch.M.

Coppleson, V. M., M.B., Ch.M.

Wilkinson, H. J., B.A.

Murray, R. E , B.Sc.

Matthews, G. P.

10 Hony. Demrs.

Architecture [Prof.

Wilkinson, L., F.R.I.B.A., F.I.A.

Hook, A. S., A.R.C.A. (Constn.) Lectr.

Carter, N. (Freehand Dr.) Instr.

Moore, J. D. (Design) Lectr.

Berry, J. L. (Med. Arch.) Lectr.

Harris, R. K., A.R.I.B.A. (Town Planning) Lectr.

1 Demr., 1 Studio Asst.

Astronomy

Cooke, W. E., M.A. Prof.

Sawkins, D. T. (v. Econ.) Lectr. (Geodesy & A.)

Botany, v. also Agric

Lawson, A. A., D.Sc. Prof.

Lectrs. & Demrs. :

McLuckie, J., M.A. Glas., D.Sc.

Brough, P., M.A., B.Sc., B.Sc.Agr. Glas.

2 other Demrs.

Chemistry

Fawsitt, C. E., D.Sc. Edin., Ph.D. Leip. Prof.

Schofield, J. A., A.R.S.M., F.I.C. Assoc. Prof.

Lectrs. & Demrs. :
Brereton, E. Le G., B.Sc.
Burrows, G. J., B.Sc.
6 other Demrs.

Chem., Assaying and Metall.
Eastaugh, F. A., A.R.S.M., F.I.C. Asst. Prof.

Chem., Organic, Pure and Applied
Kenner, J., D.Sc. Lond., Ph.D. Heid. Prof.
Harker, G., D.Sc. Lond. Lectr.
Earl, J. C., B.Sc. Adel., Ph.D. St. And. Lectr.
1 Demr.

Classics
Woodhouse, W. J., M.A. Ox. (Greek) Prof.
Todd, F. A., B.A., Ph.D. Jena (Latin) Prof.
Powe, A. B., M.A. Q'ld (Latin) Lectr.
Robinson, A. H., M.A. (Latin) Lectr.
Simpson, C. H. G., M.A., LL.B. Tutor.

Commerce
Carter, G. P., A.C.A., A.C.P.A. (Acctcy.) Lectr.
Cleary, W. J., B.Ec. (Business) Lectr.
Stacy, B. V., C.M.G., D.S.O., B.A., LL.B. (Com. & Indust. Law) Lectr.

Dentistry, v. *infra*

Economics
Mills, R. C., LL.M. Melb., D.Sc. Econ. Lond. Dean and Prof.
Benham, F. C., B.Sc. (Econ.) Lond. Lectr.
Portus, G. V., B.Litt. Ox., M.A. (E. Hist.) Lectr.
Bland, F. A., M.A., LL.B. (Pub. and Municipal Admn.) Lectr.
Watts, P. R., B.A., LL.B. (Pub. Admn.) Lectr.
Sawkins, D. T., B.A. Camb., M.A. (Statistics) Lectr.

Education
Mackie, A., M.A. Prof.
Cole, P. R., M.A., Ph.D. Col. Lectr.
Roberts, T. T., M.A. Lectr.
Cameron, R. G., M.A. Lectr.
Phillips, G., M.A., D.Sc. (Exper. E.) Lectr.

Engineering, v. *infra*

English Language
Holme, E. R., O.B.E., M.A. McCaughey Prof.

English Literature
MacCallum, M. W., M.A., LL.D. Glas. Hon. Prof.
Brereton, J. Le Gay, B.A. Prof.
Waldock, A. J. A., B.A. Lectr.

Forestry, v. Agric.

French
Nicholson, G. G., C.B.E., B.C.L. Ox., M.A. Prof.
Marks, Gladys, B.A. Lectr.
Bonnet, Paul Lectr.

Geodesy, v. Astron.

Geography
Taylor, T. G., D.Sc., B.E. McCaughey Assoc. Prof.

Geology and Phys. Geog.
David, Sir T. W. E., K.B.E., C.M.G., B.A., D.Sc. Ox., F.R.S. (on leave) Prof. & Hovell Lectr.
Cotton, L. A., M.A., D.Sc. Acting Prof.
Browne, W. R., D.Sc. Asst. Prof.
Waterhouse, L. L., B.E. Lectr. & Demr.
Powell, Dorothy E., B.Sc. Demr.
Osborne, G. D., B.Sc. Demr.
Brown, Ida A., B.Sc. Demr.
Dun, W. S. (Palæont.) Lectr.
Anderson, C., D.Sc. Tempy. Lectr.
Andrews, E. C., B.A. Tempy. Lectr.

German and Comparative Lit.
Brennan, C. J., M.A.
McCaughey Assoc. Prof.

History, v. also Econ.
Wood, G. A., M.A. Ox.
Challis Prof.
Bruce, J. F., B.A. Ox., M.A. Lectr.

Law, v. *infra*

Mathematics, Pure and Applied
Carslaw, H. S., M.A., Sc.D. Camb., D.Sc. Glas. Prof.
Lyons, R. J., B.A. Camb. Lectr.
Wellish, E. M., B.A. Camb., M.A. (Appl. M.) Lectr.
Thorne, H. H., M.A. Camb., B.Sc. Lectr.

Medicine, v. *infra*

Metallurgy, v. also Chem.
Turner, B. W., A.R.S.M.
Russell Lectr.

Mining
Power, F. D., F.G.S. Russell Lectr.

Oriental Studies
Sadler, A. L., M.A. Ox. Prof.
Okada, R. (Japanese) Reader.
Matsui, R. Reader.

Philosophy [Challis Prof.
Muscio, B., M.A. Syd. and Camb.

Physics
Vonwiller, O. U., B.Sc. Prof.
Bailey, V. A., M.A., D.Ph. Ox.
Assoc. Prof.
Lectrs. & Demrs. :
Mackay, I. G., C.M.G., B.A.
Booth, E. H., B.Sc.
Briggs, G. H., B.Sc.
1 Temp. Lectr. & 2 other Demrs.

Physiology [Prof.
Chapman, H. G., M.D., B.S. Melb.
Priestley, H., M.D., Ch.M., B.Sc.
McCaughey Assoc. Prof.
Lectrs. & Demrs. :
Cotton, F. S., B.Sc.
McQuiggin, H. G., B.Sc.
Wardlaw, H. S. H., D.Sc.
Hindmarsh, Ellen M., B.Sc.
Demrs. :
Ingram, W. W., M.D., Ch.B.
Horsfall, W. N., M.B., Ch.M.

Preventive Medicine
Sutton, Harvey, M.D, Ch.B, D.P.H. Melb., B.Sc. Ox.
Lectr.

Psychology
Lovell, H. T., M.A., Ph.D. Jena
McCaughey Assoc. Prof.
Martin, A. H., M.A., Ph D. Col.
Lectr.

Surveying [Russell Lectr.
Craig, A. D., B.A., B.E.
3 Demrs.

Veterinary Science
Stewart, J. D., M.R.C.V.S., B.V.Sc. Prof.
Dodd, S., F.R.C.V.S., D.V.Sc. Melb. (Path., etc.) Lectr.
Gunn, R. M. C., B.Sc. (Agr.), Birm. & Syd., M.R.C.V.Sc. (Surg. & Anat.) Lectr.
Henry, M., B.V.Sc. (State Vet. San. Sc.) Lectr.
Walters, C. J. M., M.B., Ch.M., B.V.Sc. (Vet. Mat. Med.)
Lectr.
Clunies-Ross, I., B.V.Sc. (Vet. Parasitology) Lectr.
Hannan, T. B. (Vet. Pharmacy)
Lectr.

Zoology [Challis Prof.
Harrison, L., B.A. Camb., B.Sc.
Briggs, E. A., M.Sc.
Lectr. & Demr.
Chase, Eleanor E., B.Sc.
Lectr. & Demr.
Thomas, Ethel M., B.Sc. Demr.
Nicholson, A. J., M.Sc. Manc. (Entom.) McCaughey Lectr.

Engineering, v. also Mining

Warren, W. H., M.I.C.E., LL.D.
Challis Prof. (on leave).
Miller, W. A., B.Sc., M.E. (Civ.E.)
Acting Prof.

Vogan, H. J., B.E. Lectr. & Demr.
Debenham, A. J., B.E. Lectr.
Larkins, H. M., B.E. Lectr.
Carleton, G. B., M.E. Lectr.
Vicars, J., M.E. Lectr.
Hodgson, C. A., M.A. (Camb.) Lectr.
2 Demrs.

Electrical E.
Madsen, J. P. V., B.E., D.Sc. Adel. Russell Prof.
Lectrs. & Demrs. :
Sharp, L. H., B.Sc., B.E.
Campbell, E. F., B.E.

Mechanical E.
Barraclough, Sir S. H. E., K.B.E., M.M.E. Corn., B.E., M.I.M.E., M.I.C.E. Russell Prof.
Sutherland, G. F., A.R.C.S. Asst. Prof.
Lectrs. & Demrs. :
Swain, H. J., B.A., B.Sc., B.E.
Gibson, W. H. H., B.Sc., B.E.
Hebblewhite, W. R., B.E.
3 Hon. Lectrs.

Law, v. also Com.

Peden, The Hon. J. B., M.L.C., B.A., LL.B. Challis Prof.

International Law & Jurispr.
Charteris, A. H., M.A., LL.B. Edin. Challis Prof.

Contracts, Merc. Law, Torts
Street, K. W., B.A., LL.B. Challis Lectr.

Equity and Company Law
Hooton, J. R., B.A. Ox. and Syd. Challis Lectr.

Bankruptcy and Probate
McDonald, E. F., LL.B. Challis Lectr.

Divorce [Challis Lectr.
Mackenzie, W. K. S., D.S.O., B.A.

Procedure, Pleading, & Evidence
Rowland, N. de H., B.A., LL.B. Challis Lectr.

Interpretation
Evatt, H. V., M.A., LL.B. Challis Lectr.

Roman Law [Challis Lectr.
MacCallum, M. L., M.A., B.C.L. Ox.

Criminal Law
Stacy, B. V., C.M.G., D.S.O., B.A., LL.B. Lectr.

Conveyancing
Watts, P. R., B.A., LL.B. Reader.

Medicine (for Preventive M. and Anat., Chem., etc., v. *supra*)

Anæsthetics
Lidwill, M. C., M.D. Tutor.
Adams, H. C., L.R.C.P., M.R.C.S. Tutor.

Diseases of Ear, Nose, Throat
Marks, H. J., M.A., M.D. Lectr.

Diseases of the Skin [Lectr.
Molesworth, E. H., M.B., Ch.M.

Ethics of Med. Pract. [Lectr.
Todd, R. H., B.A., M.D., Ch.B.

Gynæcology
Barrington, F., M.B., Ch.M. Edin., F.R.C.S. Eng. Lectr. (to 31.10.24).

Infectious Diseases [Hon. Tutor.
Millard, R. J., M.B., Ch.M.

Materia Med.
Macpherson, J., M.A., M.B., Ch.M., B.Sc. Lectr.
Stroud, S. H., F.I.C. Lectr. in Pharmacy.
3 Demrs. in Pharmacy.

Medical Jurispr. [Lectr.
Todd, R. H., B.A., M.D., Ch.B.

Med., Principles, etc.
Mills, A. E., M.B., Ch.M. Prof.

Medicine, Clinical
Gillies, S., M.A., M.D. Lectr.
Blackburn, C. B., O.B.E., M.D., Ch.M. Lectr.
Gill, J. M., M.D., L.R.C.P., M.R.C.S. Lectr.
Fairfax, E. W., M.B., Ch.M.

Med. Tutors
McDonald, C. G., M.B., Ch.M.
Clayton, H. J., M.B., Ch.M.
Willcocks, G. C , M.B.
Evans, Wilfred, M.B., Ch.M.

Obstetrics [Lectr
Windeyer, J. C., M.B., Ch.M.
Craig, F. B., M.B., Ch.M. Tutor.
Furber, R. I., M.B., Ch.M. Tutor.
Gibson, A. J., M.B., Ch.M. Tutor.

Ophthalmology
Waddy, R. G., M.B., Ch.M. Lectr.

Pathology
Welsh, D. A., M.A., B.Sc., M.D., F.R.C.P. Edin. Prof.
Inglis, W. K., M.D., Ch.M. Lectr. & Chief Demr.
Little, E. Marjory, M.B. Demr.
Edye, B. T. (v. Anat.) Demr.

Hon. Demrs. :
Walker, A. S., M.D., Ch.M.
Hughes, L. H., M.D., Ch.M.
Latham, O., M.B., Ch.M.
Munro, A. Watson, M.D.
Silverton, R. J., M.B., Ch.M.

Psychiatry
Macpherson, Sir J., K.B.E., C.B., M.D., F.R.C.P. Edin. Prof.

Surgery, Principles, etc.
Sandes, F. P., M.D., Ch.M., B.Sc. McCaughey Prof.

Surg., Clinical
Abbott, G. H., B.A., M.B., Ch.M. Lectr.
Craig, R. G., M.B., Ch.M. Lectr.
Dansey, R. J. St. J., M.B., Ch.M. Lectr.
Corlette, C. E., M.D., Ch.M. Lectr.
Farranridge, T., M.B., Ch.M. Tutor.
Ramsay Sharp, W. A., M.B., Ch.M. Tutor.

Dental Science

Reading, R. F., M.R.C.S., L.R.C.P., L.D.S. Eng. McCaughey Prof.
Jones, P. D., D.D.S. Lectr.
Marshall, F., D.D.S. (Mech. D.) Lectr.
Gates, E. C., D.D.S. (Clin. D.) Lectr.
Ash, P. A., D.D.S. (Surg. D.) Lectr.
Smith, Donald (Surg. D.) Lectr.
Charlton, P. C., L D.S., D.M.D. (Dental Mat. Med.) Lectr.
2 Demrs.

University Extension

Mackay, I. G., C.M.G., D.S.O., B.A. Secy. to the Board.
Portus, G. V. (v. *supra*, Econ.) Dir. of Tutorial Classes.
Bland, F. A. (v. *supra*, Econ.) Asst. Director.
1 full-time tutor and 48 tutorial class lectrs.

COLLEGES WITHIN THE UNIVERSITY

ST. PAUL'S COLLEGE (Anglican). Warden—Rev. A. H. Garnsey, M.A., Lectr. in *Div.* and *Classics*. Sub-Warden—K. B. Voss, B.E. Lectr. in *Med.* —H. J. Clayton, M.B., Ch.M. ; D. S. Maxwell ; R. H. Russell. *Arts Subjects* —F. L. Wood. *Science*—F. H. H. Wilson, B.Sc. *Law*—W. B. Simpson, LL.B.

ST. JOHN'S COLLEGE (R.C.). Rector—Very Rev. M. J. O'Reilly, D.D., Lectr. in *Christian Apologetics*, *English* and *Mod. Langs.* Vice-Rector—Rev. F. M. McEvoy, D.D. Other Lectrs. : *Med.*—O. A. Diethelm, M.B., Ch.M. *Surg.*—H. M. Moran, M.B., Ch.M. *Gynæc.*—H. H. Schlint, M.B., Ch.M. *Scholastic Philos.*—Rev. P. Dalton. *History*—Very Rev. J. O'Dwyer. *Law*—T. P. Flattery, M.A., LL.B.

ST. ANDREW'S COLLEGE (Presb.). Principal—E. E. Anderson, M.A., D.D. Aberd. Vice-Principal—A. L. Campbell, M.B.E., B.A., B.E. Secretary—

S. J. Carruthers. Hunter-Baillie Profs.: *Oriental and Polynesian Langs.*—E. E. Anderson, M.A., D.D. *Engl. Lang. and Lit.*—R. G. Macintyre, M.A., D.D. Lectrs.: *Law*—M. W. D. McIntyre, B.A., LL.B. *Med.* and *Surg.*—E. M. Fisher, M.B., Ch.M. *Pathology* and *Neurology*—M. Ross, M.B., Ch.M. *Science*—G. H. Clarke, B.Sc. (*Biol.*): J. G. Stephens, B.Sc. (*Phys. and Chem.*). *Religion*—The Principal. *Engl.*, *Hist.*, and *Philos.*—F. L. Wood. *Engin.* and *Maths.*—L. S. C. Tippett.

Wesley College (Methodist). Master—Rev. L. E. Bennett, M.A. Melb., B.D. Lond. Tutors: *Philos.*—The Master; 5 Tutors in *Med.* *Physics*—V. R. Clifton, B.Sc.

The Women's College (undenominational). Principal—Miss S. J. Williams, M.A. Melb. and Syd., Lectr. in *Classics*. Vice-Principal—Miss M. K. Brown, Lectr. in *Hist.* and Librarian. Tutors: Miss A. MacLellan, B.A. (*French and German*); Miss P. Nicol (*Physics*); Miss Abramovitch, B.A., M.B., Ch.M. (*Med*); Miss Wait, B.A. (*Philosophy*).

GENERAL INFORMATION (v. also p. 419)

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions, notably those of J. H. Challis—£250,000—in 1880, T. Fisher—£30,000 for Library—in 1885, and P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904. Under the will of Sir S. McCaughey it receives £15,000 p.a. In 1912 the Statutory endowment was raised from £10,000 to £20,000 with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archit. Private Foundations balances amounted in 1923 to £621,024, Govt. grants to £68,170, fees £44,563, expenditure on salaries £120,836, including £11,936 from the Challis Fund, and £13,903 from the McCaughey Fund. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The faculties were in that year increased from 4 to 10. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

The Library, 150,000 vols., receives about 1800 serial publications. Museums: Nicholson collection of Egyp., Greek, Roman, and Medieval Antiq. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool. Laboratories: Schools of Med., Engin., and Archit. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. The Royal Prince Alfred Hospl., erected on the Univ. grounds as a general hospl. and school, has 518 beds. Gladesville mental hospl. recognized by Camb. for clinical work for Dip. Psych. Med.

Faculties. Arts, Law, Med., Science, Engin., Dent., Vet. Sc., Agric., Econ., Archit.

Degree Courses: 3 yrs.—B.A., B.Sc.; 4 yrs.—Honours B.Sc., B.Sc. in Agric. (3 after Agric. Coll. course), B.Ec., LL.B. (after completing 1st yr. in Arts or passing Law Entrance Examn.), B.D.S., B.V.Sc., B.E. (in Civ., Mining

and Metall., or Mech. and Elec.) ; 5 yrs.—B.Arch. ; 6 yrs.—M.B., B.S. ; 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 5 or 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk. HIGHER DEGREES. Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., M.Sc. ; 3 yrs.—D.Sc., M.E. ; 5 yrs.—D.Sc. Eng. DIPLOMAS. Educn. (for graduates in Arts or Sc.), 1 yr.'s course ; Com., 3 yrs. ; D.P.H. ; D.T.M. ; Psychiatry. Candidates for the Diploma of the Pharmacy Board have to attend courses in the Univ.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Syd.

SCHOLARSHIPS, ETC., FOR GRADUATES. Junior Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof. ; 6 post-grad. Scholarships of £150 each and 2 of £300 are awarded annually for scientific study and research in the Univ. ; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s ; 4 others of £300 p.a., and 2 Scholps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for 180 students ; the Women's Coll. for 28.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Assocn. of N.S.W. In 1923 the Govt. grant for this purpose was £6370 ; 55 classes were at work, including 1400 effective students.

ADULT MATRICULATION. Persons of distinct educational merit who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Arts, Science, and Econ.

PUBLICATIONS. *Calendar* pubd. in June, 3s. 6d., with annual report and list of publicns. of Univ. Staff ; Reprints of Scientific Papers by members of the Staff ; *Hermes*, an undergrads.' mag. ; Women's College Mag.

THE YEAR 1923–24

BENEFACTIONS. Denison Miller Memorial Fund, £1429 for Scholarship in Economics ; G. H. Bosch, £1000 for research in Anatomy ; A. W. Fairfax, £1000 for Bursary ; Limbless Soldiers' Assocn., £103 for Killeen Memorial Prize ; Veterinary Assocn. of N.S.W., £102 for Baker and Ridley Memorial Prize ; G. McRae Memorial Fund, £50 for Prize in Architecture ; Economics Research Society, £40 for Prize ; Library of late Sir Charles Nicholson (formerly Chancellor) ; N.S.W. Govt., £1000 for Scientific Research ; Carillon (War Memorial) Fund subscriptions, to 24.10.24, £16,000.

NEW BUILDINGS. Extension of Botany School (£15,750) ; remodelling and additions to Chemistry and Physics Depts. (£45,000) ; extension of Fisher Library and completion of quadrangle (£14,700).

NEW POSTS. Position of Registrar separated from that of Warden.

OTHER DEVELOPMENTS. Univ. War Memorial Fund launched May 1924,

objective £15,000 for erection of Carillon—over £16,000 contributed in six months; Economics curricula revised from March 1925; St. Vincent's recognized as Clinical Hospital.

VISITS. Prof. Hunter (since deceased) and Dr. N. D. Royle delivered J. B. Murphy Oration at the Clinical Congress of Surgeons in New York; Series of lectures on Education delivered in Australia by Prof. John Adams (formerly Prof. in the Univ. of London); Prof. MacCallum invited to lecture before the British Academy in Feb. 1925.

RETIREMENTS AND RESIGNATIONS. Andraud, R. A. F.; Barff, H. E.; Beveridge, Lorna D.; Braddon, Sir Henry; Carne, H. R.; Edwards, D. S.; Hamilton, Ellice E. P.; Hebblewhite, W. R.; Morton, J.; Smith, S. A. DEATHS: Sir Walter G. Davidson (Visitor to Univ.); J. R. Dixon; J. I. Hunter.

DEGREES CONFERRED. M.A., 11 (including women—5); B.A., 135 (w.—59); B.Ec., 25 (w.—4); LL.B., 31; M.B., 157 (w.—19); Ch.M., 152 (w.—18); B.D.S., 21 (w.—2); B.Sc., 44 (w.—15); B.Sc.Agr., 6 (w.—2); B.V.Sc., 6; M.E., 1; B.E., 35; B.Arch., 6 (w.—2).

NUMBER OF STUDENTS. In full degree courses, 2189 (including women—563); Arts, 666 (w.—252); Law, 333 (w.—11); Med., 626 (w.—70); Science, 189 (w.—87); Engin., 135; Dentistry, 63 (w.—2); Vet. Sc., 15; Agr., 33; Econ., 112 (w.—34); Archit., 42 (w.—11). Included in above are graduate and research students (48), evening students in Arts (171). In Diploma courses: Econ. and Commerce, 88 (w.—17); Pharmacy, 293 (w.—29); Massage, 10 (w.—9). Special courses, 108. Grand total, 2688 (women, 661).

ADMINISTRATIVE HEADSHIP of the Univ. Emeritus Prof. MacCallum was appointed (after the close of the year) to the newly constituted whole-time Vice-Chancellorship—a new departure in Australian university policy.

UNIVERSITY OF TASMANIA, HOBART

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir NEIL ELLIOTT LEWIS, K.C.M.G., M.A., B.C.L.

VICE-CHANCELLOR—W. J. T. STOPS, LL.B.

REGISTRAR—Lt.-Col. L. R. THOMAS, D.S.O., Barr.-at-Law.

LIBRARIAN—E. MORRIS MILLER, M.A., Litt.D.

PROFESSORS, LECTURERS, ETC., April 30, 1924

Accountancy and Auditing
Hewer, A. R., A.I.C.A. Lectr.

Biology
Flynn, T. T., D.Sc. Syd. [Ralston Prof.

Chemistry
MacLeod, P. J., B.A. N.Z. Lectr.
Kurth, E. E. Lectr. (Applied Chem.).

Classics and English Lit.
Williams, W. H., M.A. Camb. Prof.
Dunbabin, R. L., M.A. Ox. Prof. (Classics).

Economics
Copland, D. B., M.A. N.Z. Prof.
Brigden, J. B., B.A. Ox. Pitt-Cobbett Lectr.
Judd, W., M.A. Melb. (Hist. and E.) Lectr.

Education
Johnston, J. A., M.A. N.Z. Lectr.

Engineering
Burn, A., B.E. Syd., M.Sc. Prof.
Tuck, H. P., B.Sc., B.E. Adel. Lectr. (Elec. E.).
Dudley, C. C. Lectr. (Drawing and Design).

History, v. also Econ.
King, C. S., M.A. Ox., B.A. Lectr.

Law
McDougall, D. G., M.A., B.C.L. Ox., M.A., LL.D. Melb. Prof.
Griffiths, P. L., M.A. Melb., LL.B. Lectr.

Mathematics
McAulay, A., B.A. Camb., M.A. Melb. Prof.
Lucas, A. H. S., M.A. Ox. and Melb., B.Sc. Lond. Acting Prof.
Erwin, H. D., B.A. (R.U.I.) Lectr.

Modern Languages
Malthus, C., M.A. N.Z. Lectr.

Psychology and Philosophy
Miller, E. Morris, M.A., Litt.D. Melb. Lectr.

Physics
McAulay, A. L., B.A. Camb., Ph.D. Manc., B.Sc. Lectr.

Tutorial Class Lectrs.

Prof. Copland (Director), the Lectrs. in Economics, and 4 others.

AFFILIATED SCHOOLS

ZEEHAN SCHOOL OF MINES AND METALLURGY.
MT. LYELL SCHOOL OF MINES AND INDUSTRIES.
HOBART TECHNICAL COLLEGE.
LAUNCESTON TECHNICAL SCHOOL.

GENERAL INFORMATION (v. also p. 419)

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. The annual Govt. grant is £10,670.

ADMISSION OF PERSONS OF MATURE AGE. Persons not below 25 yrs. of age who satisfy Board of Studies that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matricn.

LIBRARY, 17,600 vols. LABORATORIES. Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. OBSERVATORY, 8″ reflector telescope.

DEGREE COURSES: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course); 4 yrs., B.Com., B.Eng. HIGHER DEGREES. Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs.' D.Sc.; to Masters of 3 yrs.' standing, LL.D. DIPLOMAS of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying. CERTIFICATE of Commerce, 2 yrs.' course.

UNIVERSITY EXTENSION. Tutorial classes, annual grant, £1780.

PUBLIC EXAMINATIONS. Intermediate and Leaving (minimum ages, 14 and 16); Music (held in conjunction with other Australian Univs.).

PUBLICATIONS. *Calendar* (Aug.), 2s.; *Pub. Examn. Manuals*, 2s.; *Degree Examn. Papers*, 1s. Univ. news appears in Hobart *Mercury* and *World*. Students' Magazine, *Platypus*.

THE YEAR 1922–23

BENEFACTIONS. Sir Philip Fish bequest, £50 p.a. for founding a scholarship and 3 annual prizes; friends of late D. Ellerton Brown, £100, to found a prize for encouraging Imperial studies in schools; Rev. E. Bean, £50 to found an English essay prize; Mrs. Nellie M. Ewers bequest, £100 for annual prize. *Government Grant*, £10,670, and, for W.E.A. and Tutorial Classes, £1780.

NEW BUILDINGS, ETC. Laboratories and lecture-rooms for Elec. Engin. and Physics nearly completed.

NEW REGULATIONS of new B.E. degree.

NEW POSTS. Pitt Cobbett Lectr. in Economics.

RESIGNATIONS. Prof. W. H. Williams (Classics and English Lit.); H. H. Cummins.

DEGREES CONFERRED. B.A., 15; (including women—8); B.Sc., 7; LL.B., 3; M.A., 5 (1 woman).

NUMBER OF STUDENTS. Preparing for Bachelor's degree in Arts 95, Sc. 30, Law 15, Engin. 22, Comm. 24; graduates, 9; occasional, 39.

UNIV. EXTENSION. Tutorial classes in 1923 in Industrial Management, Library Appreciation, Psychology, Botany, European Politics.

[Return for 1923-24 not received.]

UNIVERSITY OF WESTERN AUSTRALIA, PERTH

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. A. J. H. SAW, O.B.E., M.L.C., M.A., M.D.

PRO-CHANCELLOR—CECIL ANDREWS, M.A.

VICE-CHANCELLOR—Prof. N. T. M. WILSMORE, D.Sc., F.I.C.

WARDEN OF CONVOCATION—W. A. G. WALTER, M.A.

REGISTRAR—.....

PROFESSORS AND LECTURERS, October 4, 1924

Agriculture

Paterson, J. W., B.Sc. Edin., Ph.D. Leip. Prof.
Carne, W. M. Lectr.

Biology

Nicholls, G. E., D.Sc. Lond., A.R.C.Sc. Prof.
Milner, Dorothy, B.Sc. Asst.
Reed, Eileen R. L., B.Sc. Adel. Asst.

Chemistry

Wilsmore, N. T. M., D.Sc. Melb., F.I.C. Prof.
Tattersall, G., M.Sc. Manc., F.I.C. Assoc. Prof.
Babington, P. Demr.

Classics

Wood, G., M.A. Aberd. Assoc. Prof.
Laidlaw, W. A., M.A. Lectr.

Education

Rooney, W. J., B.A. Syd. Lectr.

English

[Prof.
Murdoch, W. L. F., M.A. Melb.
Thompson, H. S., M.A. Lectr.

French and German

Irving, G. T., M.A. Edin. Lectr.
D'Herbois, R. C. Lectr.
Graebner, R. M. Lectr.

Geology

Clarke, E. de C., M.A. N.Z. Lectr.
Hosking, L. F. V. Demr.

History and Economics

Shann, E. O. G., B.A. Melb. Prof.
Alexander, F., B.A. Melb. and Ox. Asst.

Mathematics and Physics

Ross, A. D., M.A., D.Sc. Glas. F.R.S.E., F.R.A.S., F.Inst.P. Prof.
Thompson, R. D., M.A. N.Z., M.Sc., F.R A.S., A.Inst. P. Lectr.
Moir, Margt. B., M A., D.Sc. Glas. Lectr.
Orton, A. A., B.A., B.Sc. Asst.

Mining and Engineering

Whitfeld, H. E., B.A., B.E. Syd., M.I.M.M. Prof.
Tomlinson, A., M.Sc. Manc., A.M.I.C.E. Assoc. Prof.
Fraenkel, P. H., B.E.E. Melb., A.M.I.E.E. Lectr.
McLagan, W. Lectr.
Wright, A. R. L., L.R.I.B.A. Lectr.
Townsend, W. G., A.M.I.E.A. Demr.

Philosophy

Fox, A. C., M.A. Syd. Lectr.
Laidlaw, W. A., M.A. Lectr.

Surveying

Nunn, G. M., L.S. Lectr.

Veterinary Science

Le Soeuf, E. A., B.V.Sc. Melb., F.Z.S. Lectr.

AFFILIATED SCHOOLS

PERTH TECHNICAL SCHOOL, and SCHOOL OF MINES, KALGOORLIE.

GENERAL INFORMATION (v. also p. 419)

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 100 acres for buildings, and receives an annual grant of £17,000. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Biol., Chem., Geol., Engin., Phys.

FACULTIES. Arts, Sc. (including Agric.), Engin.

DEGREE COURSES: 3 yrs.—B.A., B.Sc.; 4 yrs.—B.A. (Hons.) and B.Sc. (Hons.); 5 yrs.—B.E. (a sandwich system during last 3 yrs.). First year Med. course in Fac. of Sc.

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

HIGHER DEGREES. M.A., M.Sc., M.E., D.Litt., D.Sc.

DIPLOMAS. Agric.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving), Art Certif., and Music.

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted without examn. as matriculated students if the Faculty is satisfied that they possess sufficient educational qualifications.

PUBLICATIONS. *Calendar* (Dec.), 2s. 6d.; *Public Examn. Manuals*; *Black Swan* (Students' Magazine).

THE YEAR 1924

NEW BUILDINGS for the departments of Biology and Geology were completed.

A CONFERENCE of W.A. Music Teachers was arranged by and held in the Univ., May 19-23.

DEGREE COURSES. At least one course in an experimental science was made compulsory in the Arts curriculum. A science may be studied for 3 years as a major subject for the B.A. pass degree, and a science may form part of a final honours group in Arts. A common first year was arranged for the Arts and Engineering degrees. A course of lectures was instituted on the History of Music.

Many EXTENSION LECTURES were given in Perth and in country centres, and fortnightly lectures were *broadcasted*; special course on Education in Perth by Prof. John Adams of the Univ. of London; short summer vacation course on *Rural Household Science*; lectures for journalists in Physical Science, Literature, and Modern History.

DEGREES GRANTED. B.A., 35; M.A., 2; B.Sc., 12; D.Sc., 1; Dipl.Agric., 3; B.E., 9; M.D. (*ad eundem*), 1.

NUMBER OF STUDENTS. Arts—Ordinary, 240 (including 148 women); post-grad., 5 (women—3). Science—92 (w.—15); post-grad., 4 (w.—2). Engineering—41; post-grad., 3. *Special courses*—Rural Science, 99; Music, 110; Journalists, 20; Engineering subjects, 30.

UNIVERSITY OF NEW ZEALAND

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—J. MACMILLAN BROWN, M.A., LL.D. Glas.

VICE-CHANCELLOR—J. RANKINE BROWN, M.A. St. And. and Ox.

CHAIRMAN, BOARD OF STUDIES—Prof. H. W. SEGAR, M.A. Camb., Auckland.

REGISTRAR—E. T. NORRIS, M.A., Wellington.

AGENT IN ENGLAND—J. W. JOYNT, M.A. Dub., 88 Gower Street, London, W.C.1.

AFFILIATED INSTITUTIONS

UNIVERSITY OF OTAGO, DUNEDIN; CANTERBURY COLLEGE, CHRISTCHURCH; AUCKLAND UNIVERSITY COLLEGE; VICTORIA UNIV. COLLEGE, WELLINGTON.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act 1908 as amended in 1912, 1914, and 1915, vests the Government of the Univ. in a Senate of 24 members (Fellows), assisted, as regards schemes of study, etc., by a Board of Studies representing the College Professorial Boards. Of the Fellows, 4 are nominated by the Governor, and 20 elected, 8 by the College Governing Bodies, 4 by their teaching staffs, and 8 by graduates. The Chancellor and Vice-Chancellor are elected by the Senate; the former (or, in his absence, the latter) presides at meetings of the Senate. There are no University buildings: the offices are at Wellington. An annual grant of £4000 is received from Govt.

MATRICULATION. Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or Greek must pass in Physical or Natural or Home Science. Not more than one of these sciences can be taken; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 30 years of age and students from other Univs.

TERMS. A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are: Autumn (March-May), Winter (June-Aug.), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are: all those of the B.A., B.Sc., B.Sc. in H.Sc., M.B., Ch.B., B.D.S., and LL.B. degree courses; of the 1st and 2nd Divisions of the B.Com. course; of the Engineering Entrance examn. A student whose name is on the books of an affiliated College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, *or*, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, *or* objects on grounds of religious scruples to such attendance.

DEGREE COURSES: 3 yrs.—B.A., B.Sc., B.Mus., B.Agr. (including practical

work on farm), B.Sc. in Forestry; 4 yrs.—B.Sc. in Home Science, B.Sc. in Archit. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc.; 5 yrs.—B.D.S.; 6 yrs.—M.B., Ch.B. The B.A. and B.Sc. courses are on a system of Pass and Advanced subjects. Each now consists of (*a*) 4 Pass and 2 Advanced or (*b*) 5 Pass and 1 Advanced or (*c*) 6 Pass subjects. English Lang. and Lit., Latin, Greek, French, and German are separate subjects for honours.

HIGHER DEGREES. M.A., M.Sc., LL.M., M.Com., M.S.; Ph.D., Litt.D., D.Sc., LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med. 3 yrs.') standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

DIPLOMAS. D.P.H. (9 mos.' course); Journalism, Education, Social Science, Banking. *Certificate* of Proficiency in Dental Surgery.

PROFESSIONAL AND TECHNICAL SCHOOLS. *Law* at all the Affiliated Colls., the chief school being that of Victoria; *Med.* and *Dent.* and *Home Science* at Otago; *Archit.* and *Engin.* (Civ., Elec., and Mech.) at Canterbury; *Mining* and *Civ.*, *Elec.*, and *Metall. Engin.* at Auckland and Otago; *Commerce* and *Music* mainly at Auckland and Canterbury; *Agric.* at a recognized (but not affiliated) Coll. at Lincoln; *Forestry* at Auckland and Canterbury.

"AD EUNDEM" RECOGNITION. Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem.*

SCHOLARSHIPS FOR GRADUATES. In almost every subject of the B.A. or B.Sc. syllabus and in Law—£70; Travelling Scholps. in Arts, Science, French —£200 (2 yrs.) each, in Engin. and Med.—£150 each. A National Research Scholarship (£100) is offered annually for each of the 4 Colleges for research in Science or Economics. Gold medals are granted for scientific and humanistic research.

Two first-class return passages between Australia and England are offered yearly by the Orient Co. and P. & O. Co. for grads. of the Univ. proceeding to Europe to continue their studies. The Union S.S. Co. supplements this by a similar concession between N.Z. and Australia. One passage between N.Z. and England is offered by the N.Z. Shipping Co., one by the Shaw, Savill & Albion Co., and one by the Commonwealth and Dominion Line.

Of 3683 students on the books of affiliated colleges in 1922, 1578 were receiving *free education.*

ADULT EDUCATION. Classes are conducted under the control of the Council of each College through an Executive Committee on which the Council and the W.E.A. are represented. The government granted £4130, of which £300 was allotted to each College for W.E.A. and extension classes.

PUBLICATIONS. *Calendar* (March), 2s. 6d.; *Minutes of Prodgs. of Senate*, free; *Examn. Papers*, 6d. or 1s. a set; *Reports of Examrs.* (in England and N.Z.), free.

THE YEAR 1924

CHANGES IN REGULATIONS, ETC. A Post-graduate scholarship in Science, £200 (2 yrs.), was established, also a Certificate for Shipping Officers and

Diploma in Medical Science. The dental course was lengthened to 5 years. The appointment of pass examiners in Australia or New Zealand was extended to the LL.B. and B.Com. courses; and the B.A., B.Sc. pass system was revised; the Senate had under consideration an accrediting system (on the certificate of Heads of Secondary Schools) in lieu of the Matriculation examn. *Schools of Forestry* are being established at the Univ. Colleges of Auckland and Canterbury by Govt. An initial grant of £600 and annual grant of £1000 have been sanctioned.

SCHOLARS WHO WENT ABROAD. W. P. Morrell, Oxford (thesis for D.Phil. on "British Colonial Administration, 1841–52"); G. S. Troup, graduate Scholar in French at Poitiers; C. R. Burns (Medical), at London; D. A. Lightband (Engineering), Westinghouse Co., U.S.A. 1851 Exhibition Scholar—J. G. Myers (Zoology), Bussey Institution, Boston. *Free Passages*—H. Belshaw, Cambridge, research in Rural Economics; R. W. Firth, London, Economics; F. H. McDowall, London, research in Chemistry; Hilda G. Heine, London, for Ph.D.; P. T. Cox, Cambridge, Geology research.

DEGREES CONFERRED. B.A.—120; B.Sc.—30; LL.B.—45; M.B., Ch.B.—54; B.Com.—8; B.E.—13; B.Sc. Home Sc.—8; B.Agr.—5; B.D.S.—7; M.A., M.Sc., and LL.M.—109; M.D.—1; Mus.B.—2; D.Sc.—2; D.Litt.—1; Ch.M.—1; D.D.S.—1.

UNIVERSITY OF OTAGO, DUNEDIN

VISITOR—H.E. THE GOVERNOR-GENERAL.
CHANCELLOR—ANDREW CAMERON, B.A., LL.D.
VICE-CHANCELLOR—T. K. SIDEY, B.A., LL.B., M.P.
REGISTRAR—H. CHAPMAN, B.A.

PROFESSORS, LECTURERS, ETC., September 26, 1924

Accountancy
Reid, G. W., B.Com. Lectr.
2 Tutors.

Accountancy Law [Lectr.
Paterson, J. M., M.A., LL.B.

Anatomy
Gowland, W. P., M.D., B.S. Lond., F.R.C.S. Eng. Prof.
Cairney, J., M.B., Ch.B. Lectr.

Biology
Benham, W. B., M.A. Ox., D.Sc. Lond., F.R.S. Prof.
Fyfe, Marion L., B.Sc. Asst.

Botany
Holloway, J. E., D.Sc. Lectr.

Chemistry
Inglis, J. K. H., M.A., B Sc., D.Sc. Edin., F.I.C. Prof.
Carter, C. L., M.Sc., A.I.C. Lectr.

Classics
Adams, T. D., M.A. Prof.
Turnbull, Mary I., M.A. Asst.

Dentistry
Pickerill, H. P., C.B.E., M.D., M.D.S., L.D.S. Eng. Prof.
Bell, R. C , B.D.S. Prof. (Clin. D.).
Siedeberg, Emily H., B.Sc., M.D., Ch.B. (Anæsthetics) Lectr.

Economics
Fisher, Allan G. B., B.A. Prof.

Education [Prof.
Lawson, R., M.A., Litt.D. Melb.

Engineering, v. Mining

English Lang. and Lit.
Ramsay, H., M.A. St. And. Prof.
Clement, Bertha, M.A. Asst.

Ethnology
Skinner, H. D., Dip.Anth.Camb., B.A. Lectr.

Geology and Mineralogy
Benson, W. N., B.A. Camb., D.Sc. Syd., F.G.S. Prof.

Hebrew
Cumming, J., M.A. Edin., B.D. Lond., D.D. Melb. Lectr.

History
Elder, J. R., M.A., D.Litt. Aberd. Prof.

History, Constitutional
Lang, J., M.A., LL.B. Lectr.

Home Science
Strong, Ann G., B.Sc. Columbia Prof. (Domestic Arts).
Storms, Lillian B., Ph.D. Columbia Asst.
McGill, Gladys, B.S. Columbia Asst.
Gloy, Olga H. M. Asst.
Little, Dora Teacher.

Law [Lectr.
Stephens, A. C., LL.B. (Contracts)
Neill, A. G. (Crim. Law) Lectr.
Adams, H. S., M.A., LL.B. (Evidence) Lectr.
Hay, W. G., LL.M. (Jurispr.) Lectr.
Cook, H. L., LL.B. (Property) Lectr.

Adams, F. B., B.A., LL.M. (Property) Lectr.
Barrowclough, H. E., LL.B. (Proc.) Lectr.
Callan, J. B., B.A., LL.B. (Torts) Lectr.

Mathematics, Pure and Applied
Bell, R J. T., M.A., D.Sc. Glas. Prof.

Metallurgy and Assaying
Waters, D. B., A.O.S.M. Prof.

Mining
Park, J., M.A.I.M.E., M.I.M.M., F.G.S. Prof.

Modern Languages
Thompson, G. E., M.A. Prof.
Barron, Vida M., M.A. Asst.

Philosophy, Ment. and Moral
Dunlop, F. W., Ph.D. Jena, M.A. Prof.

Physics
Jack, R., M.A., D.Sc. Glas., Ph.D. Gött. Prof.
Hinton, J. W., M.Sc. Lectr.
Blackie, Agnes R., M.Sc. Asst.

Physiology
Malcolm, J., M.D. Edin. Prof.
Bell, Muriel E., M.B., Ch.B. Asst.
Whyte, Marion K. B., M.B., Ch.B. Lectr. to Home Sc. Students.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics [Tutor.
Marshall, A. McP., M.B., Ch.B.

Bacteriology and Pub. Health
Hercus, C. E., D.S.O., O.B.E., M.D., B.D.S., D.P.H. Prof.
Cameron, Gladys C. M., M.Sc. Lectr.

Clin. Med. and Clin. Surg.
The Hon. Staff of the Dunedin Hospl. Lectrs.

Clin. Med. and Therap.
Fitchett, F. W. B., M.D., C.M. Edin. Prof.
Moore, S. A., B.A., M.D. Lectr.
Murray, C. S., M.B., Ch.B. Asst. Lectr.
Moody, A. S , M.B., Ch.B. Asst. Lectr.

Dis. of Children
Williams, E. H., M.B., Ch.B., M.R.C.S. Eng. Lectr.

Ear, Nose, and Throat
Hall, A. J., M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Gynæcology
North, C., M.B., Ch.B., M.R.C.S., L.R.C.P. Lond.
Tutor, Asst. Lectr. on Clin. G.

Medicine, Practice of [Prof.
Carmalt-Jones, D. W., M.A., D.M. Ox., F.R.C.P. Lond.
..... Tutor.

Mental Diseases
M'Killop, A. C., M.B., Ch.B. Edin. Lectr.

Midwifery and Gynæc.
Riley, F. R., F.R.C.S. Eng., L.R.C.P. Lond. Lectr.
Ritchie, R. I., M.B., Ch.B., M.R.C.S. Eng., L.R.C.P. Lond. Tutor.

Ophthalmology
Ferguson, Sir H. L., C.M.G., M.A., M.D. Dub., F.R.C.S.I., L.K.Q.C.P.I. Prof.

Asst. Lectrs. in Clin. O.:
Bathgate, Winifrede I., M.B., Ch.B.
Carswell, W. E., M.B., Ch.B., F.R.C.S.
Ross, K., M.A., M.B., C.M., D.P.H.
Cottrell, A. J., M.A., M.Sc., M.B., Ch.B.

Pathology
Drennan, A. M., M.B., Ch.B., F.R.C.P. Edin. Prof.
Lynch, P. P., M.B., Ch.B. Asst.

Surgery

Bell, F. Gordon, M.B. Edin., F.R.C.S. Prof.
Newlands, W., M.B., Ch.B. Edin., F.R.C S. Edin., M.A , B Sc. Lectr. on Clin. S. and Asst. Lectr. on S.
O'Neill, E. J., C.M.G., D.S.O., M.B., Ch.B., M.R.C.S., L.R.C.P. Lond. Lectr. on Clin. S.
Batchelor, F. S., F.R.C.S. Lectr. on Clin. S.
Lindon, E. H. L., M.B., Ch.B. Asst. Lectr. on Clin. S.
White, J. R., M.B., F R.C.S. Eng. Tutor.
Fergus, T., M.B., F.R.C.S. Edin. Tutor.

Adult Education

11 Lecturers to W.E.A. Classes.
Secy.—G. McCracken.

GENERAL INFORMATION (see also p. 450).

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Art, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £10,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

CLASS FEES. In separate subjects—in Arts generally, £3 : 10s. for complete course ; Science, £5 : 5s. ; Law from £1 : 4s. to £3 : 10s. ; Commerce, £1 : 4s. to £4 : 4s. ; Medicine, all subjects aggregate (5 years), about £163, exclusive of Univ. fees, £45 : 3s., and Hospl. fees ; Dentistry (4 years), £140, exclusive of Univ. fees, £24 ; Mining (4 years), £112 ; Home Science (4 years), £106.

LIBRARY, 16,000 vols. : also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. MUSEUMS : Biol., Ethnog., Geol., Anat., Path. LABORATORIES : Phys., Chem., Physiol., Bact., Path.

FACULTIES. Arts and Science, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.

COURSES. for degrees in all the Faculties ; D.P.H. ; Certif. in Dent. Surg. ; Associateship of Otago School of Mines (A.O.S.M.), 4 yrs. ; Diploma of Mining, Metallurgy, Geology, or Land and Mine Surveyor, 2 yrs. ; Associateship in Home Science, 4 or 3 yrs.

RESEARCH SCHOLARSHIPS, ETC. Edmond Industrial (Chemical) Research, £210, tenable 2 yrs. ; Smeaton Research in Experimental Science, £60 for first year and £210 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs. ; Sir R. Stout (Economics), £50 ; and Anna P. Stout (Economics and History —women) ; all open to graduates of Otago. OTHER RESEARCH FUNDS : Roberts, Deans, and Barnett endowments, £1000 each for research in med. and surg.

HOSTELS. Presbyterian for men and women ; Anglican for men ; Home Science Students'. Cost of board and lodging, 23s. to 30s. a week.

UNIV. EXTENSION. Since 1916 classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

THE YEAR 1924

BENEFACTIONS. Anonymous : £2000 for scholarship, £8000 for endowment of chair of Surgery ; Invercargill Savings Bank, £1000 for scholarship.

NEW BUILDINGS. Contracts let for new Medical School, to cost £75,000, and new Dental School, to cost with equipment £38,000.

RESIGNATIONS. Prof. L. E. Barnett, succeeded by Gordon Bell from Edinburgh.

NUMBER OF STUDENTS. Grand total, 1120 (including women—304). Graduate students, 51 (women—15). Undergraduates in Arts, 262 (w.—121) ; Medicine, 295 (w.—39) ; Dentistry, 112 (w.—13) ; Home Sc., 61 (w.) ; Law, 61 (w.—1) ; Commerce, 40 (w.—2) ; Science, 28 (w.—6) ; Mining, 16 ; Agric., 4. Non-matric., 121 (w.—33 ; commerce, 64). Exempted from lectures, 69 (w.—13).

DEGREES OBTAINED (1923). B.A., 40 (women—12) ; M.A., 16 (w.—2) ; B.Sc., 16 (w.—5) ; M.Sc., 7 ; LL.B., 3 ; M.B., 66 (w.—10) ; M.D., 1 ; B.D.S., 10 (w.—1) ; B.Com., 1 ; B.Agr., 1.

UNIV. EXTENSION (1923). 21 Tutorial classes (389 lectures), average attendance, 361. Univ. Correspondence Circle (Economics and Finance ; Prof. Woodthorpe), 24 correspondents.

CANTERBURY COLLEGE, CHRISTCHURCH

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF BOARD OF GOVERNORS—H. D. ACLAND, B.A.

RECTOR—PROF. C. CHILTON, M.A., D.Sc., etc.

REGISTRAR—L. A. STRINGER.

PROFESSORS, LECTURERS, ETC., October 1, 1924

Accounting, etc.

Morrison, J., F.I.A.N.Z. Lectr.
Smith, W. A., A.I.A.N.Z. Asst. Lectr.

Biology

Chilton, C., M.B., C.M. Edin., Hon. LL.D. Aberd., M.A., D.Sc., F.L.S. Prof.
Herriott, Eliz. M., M.A. Asst. Lectr.
Murray, Flora B., M.A. Asst. Lectr.

Chemistry

Denham, H. G., M.A., M.Sc., D.Sc. Liverpool, Ph.D. Heidelberg Prof.
Packer, J., M.Sc. Asst. Lectr.

Classics [Prof.

Stewart, H., C.M.G., M.A. Camb.
Broadhead, H. D., Litt.D. N.Z., B.A. Camb. and N.Z. Asst. Lectr.

Economics

Condliffe, J. B., M.A. Prof.
Tocker, A. H., M A. Asst. Lectr.

Education, v. also Philos.

Shelley, J., M.A. Camb. (Dean Fac. Soc. Sc.) Prof.
Purchase, J. E., M.A. Lectr.

Engineering

Bamford, P. G., B.E. Demr.
Campbell, R. A., B.Sc. (Eng.), A.M.I.C.E. Prof. (Civ. E.).
Morrison, A. F. Lectr. & Demr.
Powell, P. H., M.Sc. Manc., M.Eng. Liv., M.I.E.E. Prof. (Elec. E.) (Dean Fac. Eng.).
Robinson, W. F., F.R.G.S. (Surveying, etc.) Lectr.
Steele, S., B.Sc.Eng. Prof. (Mech. E.).
Calvert, G. G., A.M.I.C.E. Demr. (Civ. E.).
Ferriday, E. G., Demr. (Mech. E.).
Pennington, J H., B.E. Demr. (El. E.).
Pollard, T. R. Demr. (El. E.).
Grundy, R. H., Ph.D., B.Eng. Liverpool Demr.

English

Wall, A., M.A. Lond., B.A. Camb. (Dean Fac. Arts) Prof.
Cane, T. W., M.A. Asst. Lectr.

Forestry and Botany

Foweraker, C. E., M.A. Lectr.

French and German

Blunt, T. G. R, M.A. Ox. Prof.
White, J. F. D., B.A., B.Sc. N.Z. (French) Asst. Lectr.

Geology and Geography [Prof.

Speight, R., M.A., M.Sc., F.G.S.

History

Hight, J., M.A., Litt.D. (Dean Fac. Law and Com.) Prof.
Candy, Alice, M.A. Asst. Lectr.

Journalism [Asst. Lectr.
Henderson, A. G., B.A.

Law
Rowe, T. W., M.A., LL.B. Lectr.
Cuthbert, R. A., B.A., LL.B. (Indust. and Comml. L.) Asst. Lectr.
Hanna, H. H., LL.B. Asst. Lectr.
Taylor, A. S., B.A., LL.M. Asst. Lectr. (Property, etc.).
Gresson, K. M. Asst. Lectr. (Property, etc.).

Mathematics and Nat. Philos.
Weatherburn, C. E., M.A. Camb. and Melb., D.Sc. Syd. Prof.
Darwin, L. J., M.A. Adel. Asst. Lectr.

Music [Lectr.
Bradshaw, J. C., Mus.D. Manc., F.R.C.O., L.R.A.M., A.R.C.M.

Philosophy, Mental and Moral
Salmond, C. F., M.A. Prof.
Beeby, C. E., M.A. Asst. in Educn. and in P.

Physics
Farr, C. C., D.Sc. Adel. (Dean Fac. Sc.) Prof.
Macleod, D. B., M.A., D.Sc. Demr.

Adult Education

Of the Tutors for W.E.A. Classes 4 are on staff of College.

GENERAL INFORMATION (see also p. 450).

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874. Present value of Govt. endowments—£597,005, including £272,572 for the High Schools, School of Art, Museum, and Public Library controlled by the Board of Govrs. Annual Govt. subsidies and grants (1924), £37,000, including £12,264 (College proper, £4324) for *Engineering*, the National School of Engin. in N.Z. The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board. LABORATORIES. Biol., Chem., Engin., Phys.

DEGREE COURSES in Arts, Science, Mus., Com., and Engin., and Certif. or Diploma courses in Engin. (3 yrs.), Com. (2 yrs.), Journalism, Education, and Social Science. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 4 gs.; Laboratory Research, 6 gs.; Law and Commerce subjects, 1 to 2 gs.

RESIDENCE. Hostels for men (80) and women (35) students.

PUBLICATION. *Calendar* in March. Annual Statement of the Chairman in June. *College Review*, 2 issues a year, subscription 4s. *Annual Report* (*Trans.*) *of Coll. Engineering Soc.*, 2s. 6d.

SCHOLARSHIPS include one of £50 for research in Science, open to graduates, renewable up to 3 yrs.; one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England; one of £150 in Engineering, open to B.E., tenable outside N.Z.

THE YEAR 1923–24

BENEFACTIONS. Mrs. Julia Wilding, £100 to establish Memorial Lecture. NEW EQUIPMENT: Electric Apparatus for School of Engineering. NEW DEPARTMENTS: Extension and rearrangement of Dept. of Forestry consequent on receipt of grants from Govt. CONFERENCE arranged with other Univ. Colleges to discuss raising the status of separate Colleges to that of Univs. Pass COURSE IN ANTHROPOLOGY authorized for 1925. VISIT of Prof. John

Adams, Emeritus Prof. of Education in the Univ. of London, who delivered the first Wilding Memorial Lecture and other lectures. TRAVELLING SCHOLARSHIPS held in England (1) and in U.S.A. (1 in Engineering). NEW MEMBERS OF STAFF: Prof. Weatherburn (Maths.) from Ormond College, Melbourne; R. H. Grundy (Engineering) from Liverpool.

STUDENTS (1924). Total, 1024 (including women—260); matriculated, 595. Graduates, 40. Undergraduates in Arts, 267 (women—18); Engineering, 124; Science, 55 (w.—4); Commerce, 23 (w.—5); Law, 76; Music, 1 (w.); Agric., 4; Med., 5. Non-matric., 367 (w.—101). Exempted from lectures, 72 (w.—16). DEGREES obtained (1923): Litt.D., 1; M.A., 25 (women—7); B.A., 29 (women—12); D.Sc., 1; M.Sc., 2 (w.—1); B.Sc., 3; LL.B., 2; B.Agr., 2; Diploma in Journalism, 1; Diploma in Education, 4 (w.—2); Diploma in Social Science, 2.

UNIVERSITY EXTENSION. Tutorial Classes (1924), 23, with 843 students. Summer School (Dec. 26-Jan. 5, 1924, "Ethical and Psychological Basis of Democracy") at sea-side, 114 students. Winter School in Agric. and Economics in June 1923 (5 days) for rural communities, attendance 30 to 100. Week-end School (Pioneer) in Nov., average daily attendance, day 100, evening 300. Popular lectures by Profs. of the College and others in Christchurch.

AUCKLAND UNIVERSITY COLLEGE

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—HON. G. FOWLDS, C.B.E.

REGISTRAR—M. R. O'SHEA, B.Com.

PROFESSORS, LECTURERS, ETC., September 1924

Accounting, etc.
Seaman, A. M. Lectr.
Shove, H. W., B.Com. Asst. Lectr.

Architecture
Cumming, W. A. Lectr.
Morran, H. S., A.R.I.B.A. Lectr.

Biology
Sperrin-Johnson, J. C., M.A., M.Sc., M.B., B Ch. N.U.I., Litt.D., F.Z.S. Prof.
McGregor, W R. Lectr.-Demr.

Botany
Lancaster, T. L., B.Sc Asst. Lectr.

Chemistry
Worley, F. P., D.Sc. Lond., M.A., M.Sc., D.I.C., F.C.S. Prof.
Bowell, A. H., F.C.S. Lectr.-Demr.
Short, W. F., M.Sc. Manc., A.I.C., F.C.S. Lectr.-Demr.

Classics
Paterson, A. C., M.A. Edin. & Ox. Prof.
Syme, R. Asst. Lectr.

Dental Anatomy
Carter, A. M. Lectr.

Education
Fitt, A. B., Ph.D. Leip., M.A. Prof.
Cousins, H. G., M.A. Lectr.

Engineering
Lamb, S. E., B.Sc. Lond., A.R.C.S. Eng., A.M.I.M.E. (Applied Mechanics, etc.) Lectr.
Wright, W. S. Lectr. (Elec. E., etc.).
Gray, W. S., B.A., M.A.I. Dub., A.M.I.C.E.I. (Civil E., etc.) Lectr.
McLaren, E. J. R. Demr.
1 Workshop Instructor.

English
Egerton, C. W., M.A. Dub. Prof.
Ardern, P. S., B.A. Ox., M.A. Asst. Lectr.

Geology [Lectr.
Bartrum, J. A., M.Sc., A.O.S.M.

History and Economics
Grossmann, J. P., M.A. Prof.

Law
Algie, R. M., LL.M. Prof.
Fotheringham, A., B.A., LL.B. Camb. Asst. Lectr.
Munro, L. K., LL.M. Asst. Lectr.
Hogben, J. M., LL.B. Asst. Lectr.

Mathematics
Segar, H. W., M.A. Camb. Prof.

Mental and Moral Philosophy
Anderson, W., M.A. Glas. Prof.

Modern Languages
Walker, M., M.A., B.Com. Prof.
Miller, Dora L., M.A., Cert. Assn. Phon. Internat. (Paris) Asst. Lectr.

Music
Thomas, W. E., Mus.D. Ox. Prof.

Physics

Burbidge, P. W., B.A. Camb., M.Sc. Prof.
Salt, G. McB., M.Sc. Lectr. & Demr.
Munro, G. H., M.Sc. Lectr. & Demr.

University Extension

Of 10 Tutors assisting the Director appointed by the W.E.A. (L. A. Mander, M.A. Adel.), 3 are members of the College staff.

GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. It receives an annual grant of £11,500.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, and 3 by the Auckland members of the General Assembly. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science (including B.Sc. in Archit.), Law, Music, Commerce, and for the Associateship of the College in Commerce (2 yrs.' course) and in Engineering (3 yrs.').

CLASS FEES. Arts subjects, usually £3 to £5. Science, £5 to £8. Law, £1 : 10s. to £3 per subject.

SCHOLARSHIP FOR RESEARCH in Science, £100 p.a. for 3 years.

PUBLICATION. *Calendar* (Feb.).

THE YEAR 1924

BENEFACTIONS. Donations to the New Arts Building Fund included £1000 from Messrs. Campbell & Ehrenfried and £100 from D. M. Dingwall; £2000 was received from an anonymous donor for endowment of a Scholarship, £100 p.a. for 3 yrs., for research in Science; J. M. Mennie bequest, £4000 for advancement of teaching of Accountancy. RESIGNATION: Prof. H. S. Dettmann, appointed Headmaster of Sydney Boys' Grammar School, succeeded by A. C. Paterson from Pretoria Univ. College.

STUDENTS: Total, 1101; graduates, 60 (including women—12); undergrads., 744 (w.—200); non-matriculated, 192 (w.—69); exempted, 105 (w.—9). In Arts, 447 (w.—178); Law, 212 (w.—3); Commerce, 93 (w.—3); Science, 89 (w.—20); Engin., 47; Archit., 18; Journalism, 18 (w.—6); other courses, 17. DEGREES obtained: M.A., 23 (w.—6); B.A., 35 (w.—14); M.Sc., 2; B.Sc., 13 (w.—1); LL.M., 3; LL.B., 19; Mus.Bac., 2 (w.—1); B.Com., 2; B.Agric., 1; Dip.Soc.Sc., 3. Tutorial and other EXTENSION CLASSES, 10, with 980 students.

VICTORIA UNIVERSITY COLLEGE, WELLINGTON

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—P. LEVI, M.A.

REGISTRAR—G. G. S. ROBISON, M.A.

PROFESSORS, LECTURERS, ETC., August 30, 1924

Agriculture
Peren, G. S., B.S.A. Tor. Prof.

Biology
Kirk, H. B., M.A. Prof.
Pigott, Ellen, M.A. Asst. & Demr.
Maskell, F. G., B.Sc. Asst. & Demr.

Chemistry
Robertson, P. W., M.A. Ox., Ph.D. Leip., M.Sc. Prof.
Monro, A. D., M.Sc. Asst. & Demr.
Richardson, G. M. Asst. & Demr.

Classics [Prof.
Brown, J. R., M.A. Ox. & St. And.
Alexander, W., M.A., LL.B. Asst.

Economics [Prof.
Murphy, B. E., M.A., B.Com., LL.B. (E. Hist. & Geog.)
Neale, E. P., M.A., LL.B., B.Com. Asst.

Education
Tennant, J. S., M.A., B.Sc. Prof.

English Language & Lit. [Prof.
Mackenzie, H., M.A. St. And.
Tomlinson, H. B., M.A. Asst.

Geology
Cotton, C. A., D.Sc. Prof.

History
Wilson, F. P., M.A. Prof.

Law, Roman, etc. [Prof
Adamson, J., M.A., LL.B. Edin.
Cornish, H. H., M.A., LL.B. Asst.

Law, English and N.Z. [Prof.
Garrow, J. M. E., B.A., LL.B.
Watson, G. G. G., M.A., LL.B. Asst.
Cousins, A. M., LL.M. Asst.
McKay, Georgina Asst.

Mathematics
Sommerville, D. M. Y., M.A., D.Sc. St. And. Prof.
McLeod, D., M.A. Glas., B.Sc. Asst. & Instr.

Modern Languages
Boyd-Wilson, E. J., B.A. Camb., M.A., B.Sc. Prof.
D'Ery, Mlle. L. Asst.

Philosophy, Mental and Moral
Hunter, T. A., M.A., M.Sc. Prof.
Sutherland, I. L. G., M.A. N.Z., M.A. Ox. Asst. & Demr.

Physics [Prof.
Florance, D. C. H., M.A., M.Sc.
Marwick, Thora, M.Sc. Asst. & Demr.

University Extension

Of the Tutors who conduct one-year classes under joint committee of W.E.A. and College, 3 are members of College staff. Director, T. A. Hunter, M.A., M.Sc.

GENERAL INFORMATION (v. also p. 450)

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921–22 at a cost of £50,000. Annual grants about £14,000.

Full Degree *Courses* are provided in Arts, Science, Law, Com., and Agric., and the earlier stages in other Faculties.

CLASS FEES range between 2 and 4 guineas per annum for each subject.

RESEARCH SCHOLARSHIPS. J. Joseph, £60 for original work; Mrs. S. A. Rhodes' Fellowship (£400) or Scholarship (£125-£250) for women students of Home Science, tenable for 2 years.

HOSTEL for 41 women students conducted (on definitely Christian lines) by W.S. Hostel Society.

PUBLICATIONS. *Calendar* (Feb.); Students' magazine published towards end of each term.

THE YEAR 1923–24

G. S. Peren from Bristol appointed to chair of Agric., recently founded by donation of Sir Walter Buchanan (£10,000). STUDENTS: graduates, 36 (including women—18); undergrads., in Arts, 358 (w.—207); Law, 206 (w.—4); Science, 110 (w.—14); Commerce, 24; Engin., 13; Med., 8 (w.—3); total, 646 (w.—188); occasional, 85 (w.—56); exempted from lectures, 163 (w.—34). DEGREES obtained: B.A., 35 (w.—20); M.A., 20 (w.—7); B.Sc., 9; M.Sc., 6 (w.—1); LL.B., 22; LL.M., 5. TUTORIAL CLASSES (1923): 21, average attendance, 413.

UNIVERSITIES OF THE UNION OF SOUTH AFRICA

UNIVERSITY OF SOUTH AFRICA, PRETORIA (formerly the Univ. of the Cape of Good Hope), with 6 CONSTITUENT COLLEGES.

UNIVERSITY OF STELLENBOSCH (formerly Victoria College, Stellenbosch).

UNIVERSITY OF CAPE TOWN (formerly South African College, Cape Town).

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG (formerly S. African School of Mines and Technology, and, later, University College, Johannesburg).

HISTORICAL SUMMARY (for which the Bureau is indebted to Professor Ritchie of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges were well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but

it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these examns. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its examns., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its examns. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year was founded at Johannesburg an Institute, designed in the first instance for instruction in mining but afterwards developed into a College for higher education generally, and now The University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve

the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect:

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is to be upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch are defined as—Arts, Science, Education, Agric., Law, Music; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education; of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. A schedule is appended to the Act stating that professional examns. will be conducted in Law and Jurisprudence, in Civil Service Law, and in the Theory of Land Surveying.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as " The University of the Witwatersrand, Johannesburg " the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce.

Each of the four Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senates of the Univs. of Stellenbosch, the Witwatersrand, and Cape Town consist in each case of the Principal, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period,

and the Professors and Lecturers who are heads of their respective departments.

CONFERENCE. The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Examns., the administration of the Joint Scholarship Funds of the four Univs., the admission of registered students of any one of the Univs. to any of the others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest.

The JOINT MATRICULATION BOARD (Pretoria) consists of representatives of the four Univs., the Provincial and Union Departments of Education and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn. Examn. of the four Univs., and to deal with all applications for exemption therefrom. There are two alternative sets of regulations—the interim and the new. Under interim regulations a candidate must take (1) English or Dutch, (2) Latin or French or German, (3) Maths., (4) Greek or Hist., (5) Physics or Chem. or Phys. Sci. or Bot. or Zool. or Hygiene or Agric. Sci , (6) Engl. or Dutch or French or Ger. or Gk. or Hist. or Portuguese or Hebrew or Native lang. Under the new regns. subjects are grouped thus : (1) English, Dutch ; (2) Maths. ; (3) Latin, Greek, French, German ; (4) Physics and Chem., Physics, Chem., Bot. and Zool., Bot., Zool., Geol., Hygiene, Agric. Sci. A. ; (5) Hist., Geog., English, Dutch, Hebrew, addl. subject from 3 or 4 ; (6) Agric. Sci. B., Practical Maths., Mechanics, Bookkeeping and Comml. Arith., Shorthand and Typewriting, Drawing, Geom. Drawing, Domestic Sc., Music, addl. lang., addl. subject from 5. Under the new regns., if 6 subjects are taken, 1 must be selected from each group ; if only 5 subjects are taken, 3 must be on the higher grade, 1 of which must be the subject from group (1), 1 a subject from group (2) or (3), and 1 from any other except (6). The 5 subjects must be selected from the groups 1 to 5 (inclusive) in such a way that not more than one of these groups is omitted.

Examinations exempting (i.) *wholly, or* (ii.) *subject for subject, from the matriculation examination* of the South African Univs. : (i.) Final degree examns. of univs. recognized by the Joint Board, St. Andrews' L.L.A., Teachers' 1st Class Certificate (S. Africa), Technische Hoogeschool of Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certificate (in or after 1921), Cape Province Senior Certificate (in or after 1923).

(ii.) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any univ. recognized by the Board, senior certificate of the Univ. of the Cape of Good Hope or School-leaving certificate of the Board, Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of " École Supérieure de Jeunes Filles," Abiturienten-examen or Maturitäts Prüfung in Germany

or Switzerland at a gymnasium, Hoofdakte-examen in Holland, one of the examns. numbered in Appendix XX. as 7 (*a*), 8 (*a*), 9 (*b*), 10 (*b*), 13 (*b*), 14 (Higher), or, *with credit* in each case, examns. 7, 8 (*b*), 9, 10, 13, 13 (*a*), 14. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

The JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria) consisting of 2 representatives of each of the 4 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts: (1) Law Certificate Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveying, and (4) Final Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union.

The SECOND INTER-UNIVERSITY CONFERENCE (of South African Univs.) was held at Cape Town in Jan. 1924.

A NATIONAL UNION OF STUDENTS was formed in 1924. Secy.—L. M. Marchand, College House, Bredc St., Cape Town.

TERMS. The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec.

UNIVERSITY OF CAPE TOWN

WITH WHICH IS INCORPORATED THE

SOUTH AFRICAN COLLEGE

VISITOR—THE GOVERNOR-GENERAL.

CHANCELLOR—THE PRINCE OF WALES.

VICE-CHANCELLOR—Principal Sir CARRUTHERS BEATTIE, D.Sc., F.R.S.E.

PRESIDENT OF CONVOCATION—Advocate R. W. CLOSE, K.C., B.A., LL B., M.L.A.

CHAIRMAN OF COUNCIL—J. M. RUSSELL, M A., B.D., LL.D.

REGISTRAR—W. G. R. MURRAY, M.A.

PROFESSORS, LECTURERS, ETC., November 10, 1924

Accounting and Business Method

Galbraith, H. G., B.A. Camb., C.A. Edin. Prof.

African Life and Languages

Norton, W. A., M.A., B.Litt. Ox. Prof. of Bantu Philology.

Brown, A. Radcliffe, M.A Camb. Prof. of Soc. Anthrop.

Beach, D. M., B.A. Harv., Ph.D. Lond. Sr. Lectr. in Phonetics.

Goodwin, A. J. H., B.A. Camb. Research Asst.

Bleek, Miss D. F. Hon. Reader.

Anatomy

Drennan, M. R., M.A., M.B., Ch.B. Edin. Prof.

Wolff, R., B.Sc. Cape, M.R.C.S., L.R.C.P., L.D.S. Sr. Lectr.

Gordon, W. L., O.B.E., M.D., F.R.C.S. Edin. Lectr.

Cohen, S. M., B.A. Demr.

Dry, T. J., B.A. Demr.

Zuckerman, S., B.A. Demr.

Bacteriology

Campbell, W., M.B., B.Sc. (P.H.) Edin. Prof.

Hofmeyr, H. O., M.B., Ch.B. Edin., D.T.M. Lond. Asst.

Mulligan, W. P., M.B., Ch.B. Aberd., D.P.H. Camb. Asst.

Bio-Chemistry [Prof

Edie, E. S., M.A., D.Sc. Edin.

Botany

Compton, R. H., M.A. Camb. Prof. and Dir. of Nationa Bot. Gardens.

Adamson, R. S., M.A., B.Sc. Edin., M.A. Camb. Bolus Prof

Stephens, Miss E. L., B.A., F.L.S Sr. Lectr

Levyns, Mrs. J. E. P., B.A. Lectr

Bolus, Mrs. F., B.A. Curator of Bolus Herbarium

Giffen, M. H., B.A. Demr

Chemistry

Tietz, H., M A. Cape, Ph.D. Berl (Organic) Prof

Thomas, J. Smeath, D.Sc. Liv. Prof. (Inorganic C.)

Newbery, E., D.Sc. Manc., F.I.C (Physical) Prof

Pugh, W., B.Sc. Lond. Lectr.

Barker, W. F., B.Sc., Ph.D. Liv. Lectr

Gibson, E. K., M.A. Demr

Kruger, R. J., B.A. Demr

Classics
Ritchie, W., M.A. Aberd., M.A.Ox. Prof. (Latin and Class. Philol.).
le Roux, T., M.A., Litt.D. Amst. Prof. (Gk.).
Watson, C. F. K., B.A. Camb. Sr. Lectr.
Farrington, B., M.A. N.U.I. ,, ,,

Commerce [Prof.
Plant, Arnold, B. Com. Lond.

Economics
Leslie, R., M.A. Edin., Dean of Fac. of Commerce Prof.
..... Sr. Lectr.

Education
Clarke, F., M.A. Ox. Prof.
Scrimgeour, A. C. S., M.A. Edin. (Method) Prof.
Jordaan, J. J., B.A. Cape Lectr.
Sr. Lectrs.:
Jamieson, J. N., M.A. St. And.
Malherbe, P. B., B.A. Cape, Ph.D.
Freund, Miss M.
.....

Electrotechnics [Prof.
Bohle, H., M.V.D.E., M.I.E.E.
Rogers, A. H. E., A.C.G.I. Lond. Sr. Lectr.
Burmeister, J. Asst.

Engineering, Civil
Snape, A. E., M.Sc. Manc., A.M.I.C.E., F.R.San.I. Prof.
Stewart, G. S., A.M.I.C.E. Sr. Lectr.
Gilmore, J. A., B.Sc., M.A. Demr.

Engineering, Mechanical [Prof.
McMillan, D., A.R.T.C., A.M.I.M.E.
Weaver, W. G., A.M.I.M.E. Sr. Lectr.
Brooks, J. J., A.R.C.S. Lectr.
..... Demr.
Sacks, S. Asst.

English [Prof. (E. Lit.).
Clark, J., M.A., LL.D. St. And.
Mackie, W. S., M.A. Aberd., B.A. Ox. Prof. (E. Lang.).
Greenlees, Miss M., B.A. Lectr.

Ethics and Politics
Malan, G. H. T., M.A. Cape, D.Phil. Glas. Prof.

French
Nauta, R. D., O.A. Prof.

Geology, v. Mineralogy

German
Boyd, J., B.A. Ox. Prof.
Prinz, J., Ph.D. Munich Lectr.

Hebrew
Bender, A. P., M.A. Camb. Prof.

History
Walker, E. A., M.A. Ox. Prof.
Mandelbrote, H., M.A., B.A. Ox. Sr. Lectr.

Law [Prof.
Wille, G., B.A., LL.B. Camb.
Wylie, J. K., M.A., LL.B., D.Litt. Edin., LL.B. Lond. Prof. (Rom. L.).
Clouts, P. M., LL.B. Camb., B.A. Cape Lectr.
De Villiers, J. E., B.A., B.C.L. Ox., B.A. Cape Lectr.
Howes, R. B., M.A., LL.D. Dub., LL.B. Lectr.
Reid, F., B.A. Ox. Lectr.
Thompson, C. N., M.A. Cape, LL.B. Camb. Lectr.

Mathematics, Pure
Crawford, L., M.A. Camb., D.Sc. Glas. Prof.
Cilliers, A. C., M.Sc., Ph.D. Sr. Lectr.
Pagan, Miss G. M., M.A. Lectr.

Mathematics, Applied
Brown, A., M.A. Camb., M.A., B.Sc. Edin. Prof.
v. d. Lingen, J. S., B.A. Sr. Lectr.

Mineralogy and Geology
Young, A., M.A., D.Sc. Edin. Prof.
Walker, A. R. E., B.Sc. Lond., A.R.C.S. Lond. Sr. Lectr.

Music
Bell, W. H., F.R.A.M. Prof.

Sr. Lectrs. :
Bell, Mrs. W. H., L.R.A.M.; Bonner, Miss E., L.R.A.M., A.R.C.M.; Curling, H. B.; Fincken, Miss E., A.R.A.M.; Haasdyk, P. W.; Hely-Hutchinson, C. V. N. H.; Heward, Miss D. F., L.R.A.M., A.R.C.M.; Lardner, Mrs. D. F.; Marx, E.; Rainier, Miss E. F. D., L.R.A.M.; Spear, Miss R., A.R.A.M.; Taylor, C.

Lectrs. :
Greathead, Miss L. B., L.R.A.M.; Isaacson, Miss L.; Leffler, Miss W., L.R.A.M.
19 Assts.

Nederlands en Afrikaans
du Toit, P. J., M.A. Cape, Ph.D. Ghent Prof. (Lang.).
Botha, M. C., M.A. Prof. (Lit.).
van der Merwe, I. W., M.A. Lectr.
..... Lectr.

Philosophy, v. also Ethics [Prof.
Reyburn, H., M.A., D.Phil. Glas.
Eales, W. C., B.A. Cape Sr Lectr.
Taylor, J. G., M.A. Sr. Lectr.

Physics
Ogg, A., M.A., B.Sc. Aber., Ph.D. Gött. Prof.
Schonland, B. F. J., O.B.E., B.A. Camb. and Cape Sr. Lectr.
Grindley, E. N., M.Sc. Bristol Lectr.
Gotsman, B., B.Sc. Demr.
Immelman, M. N. S., B.Sc. Demr.
Ravenscroft, A. P., B.Sc. Demr.

Physiology
Jolly, W. A., M.B., Ch.B., D.Sc. Edin. Prof.
Mirvish, L., M.A., M.B., Ch.B. Asst.
Bosman, L. P., B.A. Cape Lectr.

Politics, v. Ethics

Zoology [Prof.
Gilchrist, J. D. F., M.A., D.Sc. Edin., Ph.D. Zur., F.L.S.
von Bonde, C., M.A. Lectr.
Swart, D. B., M.A. Demr.

Medicine (for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Forbes, A. Gordon, M.B., Ch.B. Edin. Clin. Teacher.
Daniell, G. W. Bampfylde, M.R.C.S. Lectr.
Muir, R. M., M.B., Ch.B. Edin. Clin. Teacher.
Berelowitz, R., M.B., Ch.B. Clin. Teacher.

Dermatology
Smith, Hugh, M.D. Lond. Lectr.

Ear, Nose, and Throat
Luckhoff, J., M.D. Edin. Lectr.

Med. Jurisprudence
..... Lectr.

Medicine
Falconer, A. W., C.B.E., M.D. Aber., M.R.C.P. Prof.

Medicine, Clinical [Lectr.
Marais, D. P., M.D., F.R.C.S.
Forman, F., M.B., Ch.B. Edin. Tutor.
Silberbauer, S. F., M.D. Lectr.

Mental Diseases [Lectr.
Swift, E. W. D., M.B. Lond.

Obstetrics and Gynæcology
Crichton, E. C., B.A., M.B., B.A.O., B.Ch. Dub. Prof.

Obstetrics, Clinical
Simpson Wells, A., M.D. Glas., F.R.C.S.E. Lectr.
Charnock, F. S., M.B., Ch.B. Manc. Tutor.
Sharp, C. W. C. Tutor.

Ophthalmology
Wood, D. J., M.B. Edin. Lectr.

Pathology
Bartlett, G. B., B.A., M.B. Camb., M.R.C.S. Prof.
Fuller, T. A., M.B., Ch.B. Edin. Asst.

Pharmacology [Prof.
Gunn, J. W. C., M.B., Ch.B. Edin.
Morrison, Miss D., B.A. Cape, M.B., Ch.B. Edin. Asst.

Public Health [Lectr.
Higgins, T. S., M.D., B.Sc., D.P.H.

Surgery
Saint, C. F. M., C.B.E., M.D., M.S. Durh., F.R.C.S. Prof.

Surgery, Clinical
Elliott, C. C., M.D., M.R.C.S. Lectr.
Fuller, E. B., M.B., F.R.C.S.E. Lectr.
Moffat, H. A., F.R.C.S. Lectr.
Sandes, T. L., M.B., B.Ch. Dub. Clin. Tutor.

Vaccination
Molteno, V. G., M.B. Camb. Lectr.

Venereal Diseases
Fraser, A. R., M.D. Lectr.

GENERAL INFORMATION (v. also p. 464)

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Mr. Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. The S. African College, out of which the University grew, opened in 1829 as a private venture, became a public institution in 1837. In 1895 classes were opened in mining engineering. In 1900 the matriculation classes were transferred to the College school and the College confined itself to University teaching. In 1902 £40,000 was collected from past students and others, and courses for medical students and civil, mechanical, and electrical engineers were begun. Provision was made in 1910 for post-graduate courses for the training of teachers, in 1917 for the third year of medical study, and in 1918 for a complete medical course. In 1921 Schools of Commerce and of Music were established. Early in 1921 a special appeal for funds was concluded; the amount obtained was about £280,000, including a sum of £50,000 for the Jameson Memorial Hall.

A site for the University has been provided by Government at Groote Schuur, a suburb of Cape Town. Pending the erection of buildings there, those formerly occupied by the Univ. of the Cape of Good Hope have been rented.

LIBRARY, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus HERBARIUM includes Guthrie Collection of Cape Flora. The S.A. MUSEUM of Nat. Science adjoins the Univ. grounds. MARINE BIOL. LABORATORY at St. James'.

FACULTIES. Arts, Commerce, Science, Engineering, Law, Medicine, Education, and Music.

DEGREE COURSES. B.A., 3 yrs.; B.Sc. (in Pure Sc.), 3 yrs.; B.Com., 3 yrs.; LL.B., 4 yrs.; B.Sc. (in Applied Sc.), 4 yrs.; B.Mus., 4 yrs.; M.B., Ch.B., 6 yrs.; M.A., 1 yr.; M.Sc., 1 yr.; B.Ed., 2 yrs. after B.A. The M.A. and M.Sc. courses are open to graduates of any approved Univ.; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 4 yrs.' standing), for which attendance for 2 yrs. may be required. The LL.M. is open to LL.B. after 2 yrs.' attendance; the LL.D. is open to LL.B. or LL.M.

OTHER COURSES. For Teachers' Certificate.—Secondary Higher, Secondary Lower, Primary Higher; Univ. Diploma in Commerce, Law Certif., Land Surveying, Civil Service Law examn., Dentistry (preliminary subjects), and for students of Agric. and Theol. proposing to graduate in those subjects elsewhere.

RECOGNITION OF AND BY OTHER INSTITUTIONS. Attendance in Stellenbosch and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. are accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng.; examns. in the Faculty of Arts in these subjects are accepted by Aberd. (v. also pp. 275, 308, 640). The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Ire., Edin., and Glas.

FEES. For tuition, including registration, excluding laboratory fees, annually: Arts or Sc., from £23 to £31; Engin., £31 to £35; Med., £38 (average); Law (LL.B.), £23 to £29, Law Certif., £11; Teaching, £15 to £27; Surv., £23 to £27; Commerce (B. Com.), £23. Examn. and graduation fees, minimum: B.Ed., £10; B.A. or B.Sc. or B.Com., £11; B.Sc. Engin., £20; LL.B., £30; M.B., Ch.B., £30: Master's degree, £6; Doctor's, £13.

SCHOLARSHIPS OPEN TO GRADUATES OF THE UNIV. Jamison, Croll, Porter, George Grey, Donald Currie, Willem Hiddingh, H. B. Webb, and several others, of £150 and £200 p.a., tenable generally for 3 yrs., and awarded from time to time after the M.A. or M.Sc. examns. £150 p.a. for 2 yrs., awarded annually after the B.Sc. (Engin.) examn.; £150 for 1 yr., awarded annually after the final professional examn. for M.B., Ch.B.

Travelling concessions to students are granted by the Union-Castle S.S. Coy. and (except to law students and married persons) by the Union Railways.

RESIDENCE. Hostels for 180 men and 80 women. Board and residence, £60 p.a.

PUBLICATIONS. *Calendar* (Dec.); Students' Repve. Council's *University Quarterly*; *Annals of the Bolus Herbarium*.

THE YEAR 1924

BENEFACTIONS. Cavanagh bequest, additional, £500; W. P. Schreiner Memorial Committee, £5000 (for a chair of Law).

NEW BUILDINGS. Good progress was made in levelling and laying out the site for the residences, playing fields, and buildings for Arts, Science, Engineering, etc. At another site the new medical block is being erected.

NEW DEPARTMENTS AND POSTS. Third prof. of law (from 1925), prof. of commerce, prof. of fine art, and director of the school of art (from 1925), director of training in the faculty of education (from 1925), lectureship in accounting raised to professorship, senior lecturer in psychology, additional lectureship in dept. of Nederlands en Afrikaans.

OTHER NEW DEVELOPMENTS. Classes in *Architecture* at present conducted by the Cape Institute of Architects, and the *School of Art* now under the control of the Education Dept. for the Cape Province, are to be taken over by

the Univ. from 1925. A degree of B.Sc. in *Applied and Industrial Chemistry* is to be instituted in place of the present degrees of B.Sc. in App. Chem. and in Chem. Eng., the curricula for which are amalgamated.

RELATIONS WITH OTHER INSTITUTIONS. It is proposed to recognize attendance at certain courses at the Cape Technical College for the purpose of degree examns. of the Univ.

VISITS. Short courses of lectures were given by H. Hamshaw Thomas (Univ. of Cambridge) on botanical subjects and by Prof. Von Huene (Univ. of Tübingen) on the Dinosaurs.

DEGREES (1923). B.A., 95; B.Sc. (Pure Science), 9; B.Sc. in Engin., 9; M.B., Ch.B., 6; LL.B., 6; M.A., 16; Ph.D., 2. HONORARY DEGREES. *LL.D.*—Sir Maximilian Michaelis, John M. Russell, M.A., B.D. *D.Sc.*—A. W. Rogers.

NUMBER OF STUDENTS (1923). Undergraduates preparing for B.A.—388, B.Sc. in Engineering 68, LL.B. 22, M.B., Ch.B. 204, Dental 10, Land Survey 1, Sec. Teachers' Lower Cert. 74, Primary Teachers' Higher Cert. 27, Pharmaceutic 4, Law Cert. 47, B.Com. 20, Diploma in Commerce 10, Music 541, Graduates preparing for M.A. and M.Sc. 24, other Higher degrees 3, Sec. Teachers' Higher Cert. and B.Ed. 22, D.P.H. 3. Occasional 69. Total enrolment, 1669. Graduates who went overseas in 1923 for further study, 8.

SPECIAL COURSES OF LECTURES: (i.) Univ. Extension by members of the Staff; (ii.) African Life and Languages (in Long Vacation); (iii.) for Pharmaceutical students by Prof. Gunn; (iv.) on Irrigation and Water Supply, by F. E. Kanthack, M.I.C.E.; (v.) Æsthetics, by Mgr. Kolbe; (vi.) the Motor Car, by Prof. McMillan.

RESIGNATIONS (1924). G. B. Bartlett, M. H. de Kock (to be member of Union Govt. Board of Trade and Industries).

DEATH (1924). H. A. Engelbach.

UNIVERSITY OF SOUTH AFRICA

(By Act 12 of 1916 of the Legislature of the Union of South Africa the UNIVERSITY OF THE CAPE OF GOOD HOPE, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the University of South Africa with administrative seat at Pretoria, v. p. 466.)

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—Sir J. E. ADAMSON, K.B., M.A., D.Lit.

CHAIRMAN OF SENATE—Professor P. J. DU TOIT, B.A., D.Med. Vet., Ph.D.

REGISTRAR—C. C. GRANT, M.B.E., M.A. (P.O. Box 392, Pretoria).

PRESIDENT OF CONVOCATION—Professor Sir GEORGE E. CORY, M.A., D.Lit.

CONSTITUENT COLLEGES

GREY UNIVERSITY COLLEGE, Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg (1909).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

POTCHEFSTROOM UNIVERSITY COLLEGE, Potchefstroom (1922).

TRANSVAAL UNIVERSITY COLLEGE, Pretoria (1903).

FACULTIES: Arts (including Divinity, Music, and Education), Science, Engineering, Agriculture, Law, Commerce, Veterinary Science.

DEGREES. B.A., M.A., M.Ed., D.Litt., D.Phil.; B.D., D.D.; B.Mus., M.Mus., D.Mus.; B.Com., M.Com.; B.Econ., M.Econ.; B.Sc., M.Sc., D.Sc., B., M., and D.Sc. in Engin.; B., M., and D.Sc. in Agric.; LL.B., LL.M., LL.D.; B.V.Sc., D.V.Sc.; B.A. (Fine Arts).

Courses for B.A., B.Com., B.Econ., B.Sc.—3 yrs.; for B.Mus., B.Sc. Engin., B.Sc. Agric.—4 yrs.; for B.V.Sc.—5 yrs.; for LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a constituent Coll. for the prescribed periods, provided that the Senate will accept as qualifying attendance on recognized courses at any of the other South African Univs. and may accept attendance and examns. at other recognized Univs. But the minimum attendance on approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees one-half of the courses prescribed. *External* students must have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

Higher Degrees. The M.A., M.Sc., M.Com., M.Econ., and M.Sc. (Agric.) courses each cover 1 yr.; the M.Ed. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the M.Sc. (Agric.) or M.Sc. (Engin.). Doctorates are granted for approved theses to bachelors of at least 5 yrs.' or masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). The master's and doctor's degree may also be conferred *honoris causa.*

Research (Bachelor) Degrees. On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty subject to approval of Senate.

Diplomas in Domestic Science and Education (Lower) open to matriculated students—3 yrs.' course; in Education (Higher)—1 yr. course after graduation; (as a temporary measure) in Commerce and Public Admn.—non-matriculated students who fulfil examn. requirements for B.Com. or B.Econ.; in Bantu Studies (Lower and Higher).

SCHOLARSHIPS FOR GRADUATES: 2 or 3 of £150 to £200 p.a. for 3 yrs. awarded annually on results of M.A. and M.Sc. examns.; Webb research S., £200, open to M.A. or M.Sc. of not more than 2 yrs.' standing, undertaking approved course of research work, renewable up to 3 yrs.

SCHOOL AND MUSIC EXAMNS. The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers). The examiners in the practical music examns. are nominated by the Assoc. Board of R.A.M. and R.C.M., London.

THE YEAR 1923. *Number of Students,* internal, 1322, external, 399. Qualified for degrees: B.A., 133 (incl. women—44); M.A., 15 (women—5); M.Ed., 2; B.D., 2; D.Lit., 1; B.Sc., 52 (w.—19); M.Sc., 17 (w.—3); D.Sc., 1; LL.B., 7; B.Sc.Agr., 5 (w.—1); B.Sc.Eng., 2; B.Com., 2; B.Econ., 4. *Junior Certif. candidates,* 4806; Music, theory, 3970, practical, 3627.

Scholarships held abroad during 1923: Queen Victoria Scholar: B. de Loor, M.Sc. (Amsterdam); Maynard Scholar: R. Jackson, M.A. (Balliol College, Oxford).

Regulations were approved for (*a*) a 4-yrs. course leading to the B.A. (Fine Arts), and (*b*) 1-yr. courses for the Diplomas (Lower and Higher) in Bantu Studies.

GREY UNIVERSITY COLLEGE, BLOEMFONTEIN, O.F.S.

CHAIRMAN OF COUNCIL—J. S. M. RABIE, B.A. Cape.
RECTOR—Rt. Rev. J. D. KESTELL.
REGISTRAR—R. B. SAAYMAN.

PROFESSORS, LECTURERS, ETC., September 1924

Afrikaans and German
Malherbe, D F., B A. Cape, Ph D. Freiburg-i-Bn. Prof.

Botany
Potts, G., B.Sc. Durh., Ph.D. Halle Prof.
Gemmell, Miss D. M. Demr.

Chemistry
Rindl, M., D.Ing. Charl. Prof.
Zweerts, F., Ingr. Delft Lectr.

Classics
Ross, J. A., M.A. Cape (Greek) Lectr.
Conlin, W., M.A. Dub. (Latin) Prof.

Dutch and French
Francken, A., B.A. Cape Prof.

English
Johnson, W. S., M.A., R.U.I. Prof.

Geology
Von Bonde, W., M.A., D.Sc. Cape Town Lectr.

History (S. African)
The Rector Prof.

History and Economics [Lectr.
Barnard, S. P., Litt. Docts. Leyd.

Law [Lectr.
Brink, C. P., B A., LL.B. Cape
Hœxter, O., B.A., LL.B. Cape Lectr.

Mathematics (Pure and Applied)
Arndt, W. F. C., B A. Cape, Ph D. Gott. Prof.
Marquard, D., B.Sc. Asst.

Pedagogy
Eybers, E., M.A. Edin., Ph.D. New York Prof.

Philosophy
Forsyth, T. M., M.A., D.Phil. Edin. Prof.

Physics
Logeman, W. H., M.A. Cape Prof.
Du Plessis, A. J , B.Sc. Demr.

Zoology
Dreyer, T. F., B.A. Cape, Ph.D. Halle Prof.
Meiring, A. D., B.Sc. Demr.

GENERAL INFORMATION (v. also pp. 464, 475)

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides *courses* for degrees in Arts, Science, and Law, and for the Teachers' Diplomas, and prelim. training for Med., Engin., Agric., and Comm.

HOSTELS for men and women within the Coll. grounds. BOARD AND RESIDENCE : £15 per quarter. TUITION FEES : £5 per quarter (Law, £2 : 10s.).

SCHOLARSHIPS, open to residents of O.F.S. for study abroad, 4 or 5 of £150 p.a. for 3 yrs.; of these 3 are for Agric. study.

UNIV. EXTENSION lectures, chiefly by members of the staff, in Bloemfontein and other centres.

THE YEAR 1924. STUDENTS: Preparing for Bachelorships, 173 (including women—46); for Teacher's Certif. or Diploma, 47; Law Certificates, 23; Master's Degrees, 7; Med., 1; Pharmacy, 11; LL.B., 9.

DEGREES OBTAINED (1923). B.A., 23; B.Sc., 10; M.Sc., 1; M.Ed., 1; LL.B., 1.

RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

CHAIRMAN OF COUNCIL—THE BISHOP OF GRAHAMSTOWN.
CHAIRMAN OF SENATE—Professor BOWLES.
REGISTRAR—Lieut.-Col. H. GREENER, D S.O.

PROFESSORS, LECTURERS, ETC., October 1924

Accounting, Business Management, etc.
Williamson, J. W. M., C.A. Lectr.

Anatomy [Lectr.
Drury, E. G. D., B.S. Lond., D.P.H. Durh., M.D. Cape.

Botany
Schönland, S., Ph.D. Kiel, Hon. M.A. Ox. Prof.
Britten, Miss L., B.A. Cape Lectr.

Chemistry and Metallurgy
Cory, Sir G. E., M.A. Camb., Durh. and Cape, Litt.D. Camb. Prof.
Page, R. A., M.A. Cape Lectr.
Smith, J. L. B., B.A. Cape, M.Sc. Stell., Ph.D Cantab. Lectr.

Classics
Bowles, C. W., M.A. Camb. and Cape (Greek) Prof.
Smail, W. M., M.A. Ox. and Edin., B.A. Lond. (Latin) Prof.
Whiteley, S., M.A. Ox. Lectr.

Commerce
Williamson, J. W. M., C.A. Lectr.

Drawing and Graphics
Armstrong, F. W., A.R.C.A. (Principal, School of Art) Instr.

Dutch
Dingemans, G. F., M.A. Edin. and Cape Prof.

Economics [Lectr.
Hall, R. L., B.A. Ox. and Cape

Education [Lectr. i/c Dept.
Earle, F. M., B.A , M Ed.
Martinius, Miss M., B.A. Cape Lectr.
Hendrikz, Miss P., B.A. Head of Practising School.
Thompson, Miss M., B.A. Lectr.
3 Instrs.

English
Kidd, A. S., M.A. Camb., Manc., and Cape Prof.
Balmforth, Miss M., B.A. Ox. & Cape Town Lectr.

French
Bodmer, H. S Prof.

Geology
Schwarz, E. H. L., A.R.C S. Lond., F.G.S. Prof.

German and Dutch
Weehuizen, P. B., M.O. Hol Lectr.

History
Rousseau, I. J., B.A. Ox. Prof.

Law
McKerron, G. G., M.A., LL.B. Edin. and Cape Lectr.

Mathematics, Pure and Applied
Williams, D., B.Sc. Lond. and Cape Prof.
Martin, J., M.A. Camb. and Cape Lectr.
Finlay, W. H., M.A. Camb. Lectr.

Music
Collingwood, W., B.A. Ox., A.R.C.O.

Philosophy
Lord, A. R., M.A. Ox. Prof.

Physics
Varder, R. W., M.A. Cape Prof.

Watson, S. W., B.A. Camb. and Cape Lectr.

Zoology [Prof.
Duerden, J. E., M.Sc. Cape, Ph.D. J. Hopk., A.R.C.S. Lond.

GENERAL INFORMATION (v. also pp. 464, 475)

In 1902 a movement was started for the institution of university education in the Eastern Province, and in 1904 the Rhodes Trustees established for the purpose an endowment of £50,000, which, together with a donation of £5000 from the De Beer's Company and local subscriptions amounting to £10,000, was applied to the development of St. Andrew's College (founded 1855). The College Department (opened in 1878) was separated from its school, and incorporated as Rhodes Univ. Coll. in 1904. In 1906 it received £25,000 under the will of Alfred Beit.

LIBRARY, 13,000 vols. LABORATORIES: Applied Maths., Bot., Chem., Geog., Geol., Phys., Zool.

COURSES. B.A., B.Sc., M.A., M.Sc., LL.B., Law Certif., Surveying, Teachers' 1st Class and Lower Secondary Certifs., 1st yr. Medical, 1st B.Sc. in Agric., 1st Mining, 1st Engin., 1st and 2nd B.Com. FEE for full degree course, £21 p.a.

COLLEGE SCHOLARSHIPS open to graduates: two of £40, one of £50.

HOSTELS for 120 men ("College" and "Botha" Houses) and 100 women ("Oriel" and "Jameson" Houses), with dining halls, etc. BOARD AND RESIDENCE, £60 p.a. inclusive.

PUBLICATIONS. *Calendar* (Nov.); *The Rhodian* twice a year.

THE YEAR 1923–24

BENEFACTIONS. Rhodes Trustees, £5000; Municipalities and Divisional Councils, £1900; Individual donations, £180.

NEW POSTS. Lecturers in Education.

NUMBER OF STUDENTS (1923). In B.A. and B.Sc. classes, 214; B.Com., 5; LL.B., 2; Med., 2; Dent., 1; Survey, 11; Engin., 2; Law Certif., 6; Educn., 35; Vet.Sc., 1; M.A. and M.Sc., 13.

DEGREES, ETC., OBTAINED. Law Certificate (Higher), 5; Special, 15. B.A. and B.Sc., 43; LL.B., 3; Teachers' Diplomas, 8; Survey, 8.

NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG, NATAL

CHAIRMAN OF COUNCIL—The Hon. Sir JOHN C. DOVE WILSON.

CHAIRMAN OF SENATE—Prof. BEWS.

REGISTRAR—D. ROBB, P.O. Box 375, Maritzburg.

PROFESSORS AND LECTURERS, August 1924

Art [Prof. (Fine Arts).
Oxley, O. P. J., A.R.C.A. Lond.

Auditing
Atkinson, A., B.Sc. Durh. Lectr.

Botany [Prof.
Bews, J. W., M.A., D.Sc. Edin.
Aitken, R. D., D.Sc. Lectr.

Business Management and Accounting
Oldham, O., A.C.I.S. Prof.

Chemistry
Denison, R. B., D.Sc. Leeds, M.A. Cape, Ph.D. Bres. Prof.
Mudie, A. D., M.A., B.Sc. St. And. Lectr.

Classics
Petrie, A., M.A. Aberd., B.A. Camb. Prof.

Dutch and German
Besselaar, G., M.A. Cape, D.Litt. Ghent Prof.

Education
Ferguson, J. G. W., M.A. Ox. and St. And. Prof.
Reid, A., M.A., B.Sc. Aberd. Assoc. Prof.

Engineering [Prof. of Mech. E.
Neal, J. H., A.R.C.Sc. Lond.
Clark, H., B.Sc. Lond. Prof. of El. E.

English and Philosophy
Waterhouse, O., M.A. Manc. Prof.
Sweeney, G. W., B.A., LL.B. Cape Lectr.

French
Guiton, P. A., B.A. Lond. Lectr.

Geology and Geography
Sayce, R. U., M.A. Wales Lectr.

History [Prof.
Hattersley, A. F., M.A. Camb.

Law [Prof.
Burchell, F. B., B.A., LL.B. Camb.

Mathematics, v. also Physics
Roseveare, W. N., M.A. Camb. Prof.

Physics
Mesham, P., M.Sc. Liv. Prof.
Lang Brown, A., B.A. Camb. (also Lectr. in Applied Maths.) Lectr.

Zoology
Warren, E., D.Sc. Lond. Prof.

GENERAL INFORMATION (v. also pp. 464, 475)

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum*.

COURSES leading to the B.A., B.A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc.,

etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). FEES: Tuition per half-yearly term—ordinary, 10 gs.; Law or single subject, £5. Faculties of Engineering and Commerce have been instituted in Durban in co-operation with the Natal Technical College, five of the staff of which have become members of the Senate of the Natal Univ. College—four professors and one lecturer. One of the former is the professor of Fine Arts; and a 4-yrs.' course for the B.A. (Fine Arts) is provided in Durban.

HOSTEL ("University Hall") in grounds for women students.

THE YEAR 1924. *Number of Students*: preparing for Degrees or Law or Teachers' Diplomas, 270, including 128 women. *Degrees obtained* (1923); B.A. 14, B.Sc. 11, LL.B. 4, M.A. 4, and M.Sc. 7.

THE POTCHEFSTROOM UNIVERSITY COLLEGE, TRANSVAAL

CHAIRMAN OF COUNCIL—Rev. N. H. v. d. WALT.

RECTOR AND CHAIRMAN OF THE SENATE—Prof. POSTMA.

REGISTRAR—Rev. W. J. DE KLERK.

PROFESSORS AND LECTURERS, January 1925

Botany
Radloff, Miss M., M.Sc. Lectr.

Chemistry
Kamerman, P., M.Sc. Lectr.

Classics
Postma, F., D.Phil. Amst. Prof.
du Plessis, L. J., M.A. Cape, Ph.Cand. Amst. Lectr.

Dutch
Boshoff, S. P. E., D.Phil. Amst., M.A. Prof.
Dekker, J., M.A. (D. and French) Prof.

English
Norenius, Miss A. C., Lectr.

German
Schulze, H. G., M.A. Lectr.

History [Lectr.
v. d. Walt, A. J. H. J., M.A.

Mathematics and Applied Maths.
van Rooy, D. J., M.A. Sr. Lectr.

Physics
van Wageningen, G., Cand. Maths. and Phys. Amst. Prof.

Pedagogy [Prof.
van Heerden, J. S., M.A. Harv.
Coetzee, J. C., M.A., M.Ed. Lectr.

Philosophy
van Rooy, J. C., M.A. Prof.
Stoker, H. G., M.A., D.Phil. Lectr.

Theology
du Toit, J. D., D.D. Amst. Prof.
du Plessis, J. A., B.A. Cape. Prof.
de Wet, C. J. H., D.D. Amst. Prof.

Zoology
Eiselen, G. T. S., M.Sc. Lectr.

GENERAL INFORMATION (v. also p. 475)

Founded in 1869 as the Literature and Science department of the Theological School of the Reformed Church of S. Africa, this institution became in April 1919 " Het Potchefstroom Universiteits Kollege voor Christelik Hoger Onderwijs," and was in 1921 admitted as a Constituent College of the Univ. of S. Africa under an Act (No. 25) of the Union.

THE YEAR 1923. *Benefactions*: Govt. grant, £2450 (limitation to ratio £1 for £1 was removed); municipality, £250; Reformed Church, £2000; Assocn. for Christian higher educn., £500; others, £100. *Temporary buildings* costing £3600 erected. *Death*: A. P. C. Duvenage, Prof. of Maths. *Students*: graduate 5, undergraduate 114 (24 women). *Degrees* obtained (1922): M.A. 3, B.A. 2.

TRANSVAAL UNIVERSITY COLLEGE, PRETORIA, TRANSVAAL

CHAIRMAN OF COUNCIL—H. P. VEALE, B.A., M.B., Ch.B.

VICE-CHAIRMAN—L. NORMAN SPENCER.

CHAIRMAN OF SENATE—Prof. A. E. DU TOIT, M.A. Cape.

REGISTRAR—Advocate A. A. ROBERTS, B.A., LL.B. Cape and Camb.

PROFESSORS AND LECTURERS, November 1924

Accountancy
Barnes, S. R., F.S.A.A. Prof.

Agricultural Botany
Hector, J. M., B.Sc. Aberd. Prof.

Agricultural Chemistry
Ross, J. C., B.A. Cape, M.Sc., Ph.D. Illinois Prof.

Agricultural Engineering
van Tonder, A. J., B.A. Cape, M.Sc. Calif., A.C.G.I. Sr. Lectr.

Agronomy
Leppan, H. D., B.Sc. Tor. Prof.

Animal Husbandry
Bosman, A. M., B.Sc. Tor., *Dean* of the Faculty Prof.
van Rooyen, L. A., M.Sc. Cornell, B.Sc. Agr. Lectr. in Poultry.

Banking
Harding, P. W., B.A. Cape Lectr.

Bio-Chemistry
Green, H. H., D.Sc. Glas. Prof.
Mogg, A. O. D., M.A. Camb. Lectr. in Ecology.

Botany [Prof.
Bremekamp, C. E., Ph.D. Utrecht
Elbrecht, B., B.A. Lectr.
Wright, Miss K. M., B.Sc. Lond. Lectr.

Chemistry, v. also Phys.
Malherbe, D. F. du T., M.A., Ph.D. Halle Prof.
Schilz, W. E., B.Sc. Asst. Lectr.

Commerce, v. also Ac., Geog.
Holloway, J. E., B.A. Cape, D.Sc. Lond., *Dean* of Faculty Prof. of *Economics* and E. Hist.

Dairying
Davel, H. B., B.Sc. Iowa Lectr.

Dutch and Afrikaans
Le Roux, T. H., B.A. Cape, Litt.D. Leid. Prof.
Kritzinger, M. S. B., M.A. Lectr.

Economics, v. Comm.

Education
Hoogenhout, M. N., M.A. Cape, Ph.D. Stras. Prof.
Bosman, J. C., M.A. Harv. Prof. (History and Principles of E.).

English
Wallis, J. P. R., M.A. Liv. Prof.
Zorn, P. W., B.A. Cape, M.A. Ox., LL.B. Sr. Lectr.

Entomology [Prof.
Faure, J. C., M.A., B.Sc. Corn.

French and German
de Villiers, W. P., B.A. Cape, Ph. and Litt.D. Ghent Sr. Lectr.
Kuschke, G. H.-J., M.A. Witw. Jr. Lectr.

Geography and Econ. Geog.
Plummer, F. E., B.A. Camb. Sr. Lectr.
Fitzgerald, W., B.A. Liverpool Lectr.

Geology
De Villiers, L. C., Ph.D. Freiburg, M.E. Freiberg Prof.
Scholtz, D., M.Sc. Stell. Lectr.

Greek
Reinink, H., Litt.D. Amst., *Dean* of Faculty Prof.

History
Fouché, L., B.A. Cape, Ph. et Litt.D. Ghent Prof.
Agar-Hamilton, J. A., M.A. Cape, B.A., B.Litt. Ox. Sr. Lectr.

Horticulture
Powell, H. Clark, B.Sc.Calif. Prof.

Latin
Boxwell, J., M.A. (Latin) Prof.

Law, v. also Pol. Sc.
Pittman, W., B.A. Cape, M.A. Ox. (Roman, Roman-Dutch, and Merc. L.) Prof.
Rissik, P. U., B.A. Cape and Ox. Lectr.
Neser, V., B.A. Cape and Ox. Lectr. (Crim. L.).
Dowling, W., B.A. Cape, B.C.L. Ox. Lectr.
Wessels, D., B.A. Cape, LL.B. Camb. Lectr.
Reitz, R., LL.D. Amst. Lectr.

Mathematics
du Toit, A. E., M.A. Cape Prof
Duminy, J. P., M.A. Cape Tn. Lectr.
Brune, O., M.Sc. Stell. Jr. Lectr.

Mathematics, Applied
Sherwood, E. T. G., B.A. Cape, M.A. Camb. Prof.

Music
Connell, J., F.R.C.O. Prof.

Philosophy, v. also Pol. Sc.
Hugo, T. J., B.A. Cape, Ph.D. Gron. Sr. Lectr.
Rautenbach, C. H., M.A., B.D. Jr. Lectr.

Physical Chemistry [Prof.
Tromp, F. J., B.A. Camb., D.Sc.

Physics and Applied Maths.
Gundry, P. G., Ph.D. Gött., B.Sc. Lond., A.R.C.S., *Dean* of Faculty of Science Prof.
Voss, V., B.A. Cape, Ph.D. Johns H., M.Sc. Lectr.

Physiology
..... Prof.

Political Science, Pub. Admn., and Const. Law
Brookes, E., M.A. (also Lectr. in Philos.) Sr. Lectr.

Theology
Greyvenstein, J. H. J. A., B.A. Cape, Th.D. Utr. Prof.
Macmillan, E., M.A., B.D. Glas. Prof.
Engelbrecht, S. P., Th.D. Utr. Prof.

Veterinary Anatomy
Henning, M. W., M.R.C.V.S. Prof.

Vet. Bacteriology
Robinson, E. M., D.M.V. Berne, M.R.C.V.S. Lectr.

Vet. Hygiene and Infectious Diseases
Du Toit, P. J., B.A. Cape, Ph.D. Zür., D.M.V. Berl. (Lectr. in *Embryol.*) Prof.
Curson, H. H., M.R.C.V.S. Lectr.
Veglia, F., D.V.M. Turin (Helminthology) Lectr.

Vet. Medicine
Viljoen, P. R., D.M.V. Berne, M.R.C.V.S. Prof.
Neser, C. P., D.Sc., M.R.C.V.S. Prof.

Vet. Pathology
de Kock, G. v. d. W., D.M.V. Berne, M.R.C.V.S. Prof.
Steck, F.W., D.M.V. Berne Lectr.

Vet. Pharmacology [Lectr.
Fourie, P. J. J., M.R.C.V.S.

Vet. Tropical Medicine
Theiler, Sir A., K.C.M.G., D.Sc. Cape, D.M.V. Berne, *Dean* of Faculty of Vet. Sc. Prof.

Vet. Surgery and Obstetrics
Quinlan, J. B., D.M.V. Hanover, M.R.C.V.S. Prof.

Zoology
Malan, D. E., M.A. Cape, Ph.D. Zür. Prof.
Malan, D. J., B.Sc. Asst. Lectr.

GENERAL INFORMATION (v. also pp. 464, 475)

In 1908 University Classes in Arts, Science and Law were established at Pretoria by the Transvaal Govt., and were placed under the control of the Council of the Transvaal Univ. College at Johannesburg, the constitution of that body being altered so as to give Pretoria equal representation. A separation took place in 1910, the Johannesburg section being reincorporated as the South African School of Mines and Technology, whilst the Pretoria section retained the name of the Transvaal Univ. College. In 1917 was instituted a Faculty of Agriculture, financial provision for which (an endowment of £100,000) had been made by the last Parliament of the Transvaal in 1910. The following Faculties have since been established: 1918, Theology; 1919, Commerce and Public Administration; 1920, Veterinary Science; Music, 1923. The original College Buildings were erected and equipped at a cost of £50,000; those of the Faculty of Agric. at a cost of £100,000; while those of the Faculty of Vet. Science, now in process of erection, involve an expenditure of £150,000.

COURSES are provided for all Degrees and Diplomas of the Univ. in Arts, Science, Agric., Vet. Sc., Law, Div., Music, and Commerce and Public Administration. FEE for full degree course, £21 to £27: 6s. p.a.

HOSTELS. 4 for men, including the Dutch and English Church Hostels, and 2 for women. Board and Residence, £60 p.a.

LIBRARY, 14,000 vols. LABORATORIES. Bot., Chem., Geol., Phys., Zool., Agric. Bot., Agric. Chem., Agronomy, Physiol., Vet. Anat.

THE YEAR 1923–24

BENEFACTIONS. C. Maggs, £1000 towards price of site for Extra-mural Building. £600 from the Pretoria Chamber of Commerce for same purpose.

NEW BUILDINGS AND EQUIPMENT. Science Block and extensions to Agric. Block for housing temporarily administrative officers were completed at a total cost of £40,000.

NEW DEPARTMENT. Business Management. NEW POSTS: Lectureships in Geog. and Geol.; Junior Lectureships in German and Philos.

CHANGES IN PROFESSORIAL STAFF. C. E. B. Bremekamp, formerly lectr. at the Amsterdam Univ., appointed Prof. of Botany; H. C. Powell, formerly employed by S.M.L. Citrus Assocn., California, appointed Prof. of Horticulture. Resignation: A. C. Paterson, appointed to the Chair in Classics at the Auckland Univ. College, N.Z. Death: Prof. W. A. Macfadyen (Philos.), Oct. 1924. Professors *absent on study leave*: Leppan (Agronomy) at Christ College, Cambridge; Hector (Agric. Botany), London Univ.

DEGREES OBTAINED (1923). B.D., 2; B.A., 23 (including women—4);

B.Sc., 8 (women—5) ; B.Sc. (Agric.), 5 (w.—1) ; M.A., 4 ; LL.B., 1 ; B.Com., 1 ; B.Econ., 3 ; M.Sc., 4.

STUDENTS (1923). Arts, 274 ; Education, 21 ; Theology, 18 ; Law, 33 ; Medicine, 1 ; Vet. Science, 33 ; Science, 105 ; Commerce, 187 ; Survey, 1 ; Agriculture, 38 (women—4) ; Special Correspondence Courses, 59 (1 woman) ; Total, 771 (women—112).

A CONFERENCE was held with Stellenbosch Univ. with regard to relationship of the Faculties of Agric. to the Dept. of Agric. A conference for the discussion of the unemployment question was organized by the College.

A short VACATION COURSE in Music was given.

HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

PRESIDENT—BERTHA STONEMAN, D.Sc.

PROFESSORS AND LECTURERS, December 3, 1924

Botany [Lectr.
Dorr, Elenor M., M.A. Corn.

Chemistry [Prof.
Kilroe, Miss F. C., B.Sc. Lond.

Classics [Prof. (Latin).
Sargent, Helen A., M.A. Oberl.
..... Lectr.

Domestic Science
Mackenzie, Miss L. M., Dipl. Home Sc. Lond. Lectr.

Dutch [Prof.
van de Koppel, Miss L. H., M.A.

Education
de Wet, Miss F. C., M.A. Col., B.A. Prof.

English
Snell, Florence M., M.A. Oberl., Ph.D. Yale Prof.

French and German [Lectr.
Hansen, Christine, Ph.D. Heid.

History [Prof.
Stafford, Susan, M.A. N.U.I.

Horticulture
Hebditch, Miss G. L., Dipl. in H. (Reading) Lectr.

Mathematics [Prof.
Johnson, Alta M., Ph.B. Neb.

Philosophy [Prof.
Stoneman, Bertha, D.Sc. Corn.
Robson, Grace A., B.A. Cape Lectr.

Physics [Lectr.
Ladler, Miss E. M., B.Sc. Lond.

Zoology and Physiology
..... Lectr.

GENERAL INFORMATION (v. also pp. 464, 475)

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 7000 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Bot., Chem., Physics, Zool., Dom. Sc., Physiol., Psych.

COURSES for B.A., B.Sc., M.A., M.Sc., and 1st Class Teachers' Certif. Special courses in Horticulture and in Domestic Science.

EXPENSES. Class Fees, £16 per annum. Board at the College Hostel, £44 p.a.

THE YEAR 1924

NUMBER OF STUDENTS. Total, 101 (women—78, men—23). Matriculated, 96; in Arts, 41; Pure Sc., 18; Educn., 30; Domestic Sc., 8; Hortic., 4.

DEGREES OBTAINED (1923). B.A. or B.Sc., 12; Teaching Certif., 8.

UNIVERSITY OF STELLENBOSCH

CHANCELLOR—Prof. P. J. G. DE VOS, Litt.D.

VICE-CHANCELLOR—Prof. A. MOORREES, Litt.D. S.A.

PRESIDENT OF CONVOCATION—A. J. STALS, B.A., M.D. Dub.

PRINCIPAL—Prof. G. G. CILLIE, Ph.D. Stras.

REGISTRAR—D. J. KRIEL, B.A.

PROFESSORS, LECTURERS, ETC., July 29, 1924

Agriculture [Prof.

Perold, A. I., Ph.D. Halle, B.A. (Œnology and Viticulture)

Neethling, J. H., M.Sc. Corn. (A. Botany) Prof.

Reinecke, C. S. H., B.S.A. Guelph (Fruit-culture) Prof.

Brain, C. K., M.A. Ohio, D.Sc. Birm. (Entomology) Prof.

Malherbe, I. de V., Ph.D. Mün., B.A. (A. Chem.) Prof.

Reimers, J. H. W, Emg. Rott. (Animal Husbandry) Prof.

Van der Byl, P. A., M.A., D.Sc. (Plant Path.) Prof.

Marais, J. S., Ph.D. Illinois (Agronomy) Lectr.

Botany [Prof.

Nel, G. C., B.A., Ph.D. Berl.

Duthie, Miss A. V., M.A. Lectr.

Chemistry

van der Merwe, C. D., Ph.D. Halle, B.A. Prof.

van der Riet, B. de St. J., Ph.D. Halle, M.A. Prof.

du Toit, D. F., D.Chem. Leid., M.A. Prof.

Joubert, D. B., Ph.D. M.I.T., M.Sc. Lectr.

Joubert, J. M., M.Sc., Ph.D. M.I.T. Lectr.

Classics

van Braam, P., Litt.D. Utr., M.A. (Latin) Prof.

Edgar, C. S., B.A. Ox., M.A. Edin. (Greek) Prof.

Basson, J., Ph.D. Berl., M.A. (C. and Classical Philol.) Prof.

McCulla, J., M.A. R.U.I. Lectr.

Dutch and Afrikaans

Pienaar, E. C., Litt.D. Amst., B.A. (Dutch) Prof.

van Niekerk, Lydia, Litt.D. Amst., B.A. (Dutch) Prof.

Smith, J. J., B.A., Barr.-at-Law (Afrikaans) Prof.

Celliers, J. F. E (Literature) Prof.

Economics [Prof.

Grosskopf, J. F. W., Dr. Jur. Leid.

Education [Prof.

Cillie, G. G., Ph.D. Stras., B.A.

Cruse, H. P., B.A., Litt.D. Amst. Lectr. (History of E.).

Pauw, D. A. A., B.A. (Method) Prof.

Donald, M. M., M.A. Lectr.

Schröder, Miss A. E. Lectr.

Stockenström, E. C., B.A. Lectr.

English

Notcutt, H. C., Ph.D. Lond. Prof.

Mayfield, G. E. T., B.A. Lectr.

Walpole, V., M.A. Sheff. Lectr.

Hurst, H. N., B.A. Ox. Lectr.

French

Franken, J. L. M., Litt.D. Ghent, M.A. Lectr.

Geography

Serton, P., Litt.D. Utr. Prof.

Geology

Shand, S. J., Ph.D. Münst., D.Sc. St. And. Prof

Krige, A. V., M.Sc. Lectr.

German [Prof.

Friedlaender, E., Ph.D. Stras.

Hoge, J., Ph.D. Stras. Lectr.

Germanic Philology [Prof.

Bouman, A. C., Litt.D. Utr.

Hebrew

McGregor, A. M., B.A. Ag. Lectr.

History [Prof.

Blommaert, W., Litt.D. Ghent.

le Roux, Miss M., B.A. Lectr.

Gie, S. F. N., Ph.D. Berl., B.A. (H. of S. Africa) Prof.

Law [Prof.

Bodenstein, H. D. J., Barr.-at-Law, LL.D. Leid. (Roman-Dutch L.)

Malherbe, W. M. R., Barr.-at-Law, LL.D. Leid. Prof.

van Themaat, H. V. L., Dr. Jur., Dr. Jur. Pol. Leiden Lectr.

Logic and Psychology Prof.

Wilcocks, R. W., Ph.D. Berl., B.A.

Mathematics

Mackenzie, A. H., M.A. Aberd. and Camb. Prof.

Stegmann, E. T., B.A., D.Sc. S.A. Prof.

Mathematics, Applied, and Physics [Prof.

Morrison, J. T., M.A., B.Sc. Edin.

Malherbe, W. E., B.A., B.Sc. Edin. Prof

Loubser, M. M., B.A., Dipl.Ing. Chbg. Lectr.

Harvey, S. C., B.A. Lectr.

Philosophy, Moral and Polit.

Brümmer, N. J., B.D. St. And., M.A. Prof.

Physics, v. Maths., Applied

Physiology

Battaerd, P., M.D. Leiden Prof.

Psychology, v. Logic

Theology

Moorrees, A., Litt.D. (S.A.) Prof.

van Rooyen, E. E., Th.D. Amst., B.A. Prof.

du Plessis, J., B.A., B.D. Prof.

Keet, B. B., Th.D. Amst., M.A. Prof.

Zoology

De Villiers, C. G. S., M.A., Ph.D. Zür. Prof.

Grobbelaar, C. S., M.A., Ph.D. Berl. Lectr.

GENERAL INFORMATION (v. also p. 464)

The Victoria College of Stellenbosch, established 1881, beginning with a single Department, that of Arts, was in 1916, partly owing to a bequest of £100,000 by the late Jan Marais, granted the status of a University by Act No. 13 of 1916. The University was formally opened on Feb. 28, 1920.

FACULTIES. Arts, Law, Education, Science, Theology, and Agriculture.

DEGREE COURSES. B.A. (3 yrs.), B.Sc. (3 yrs.), B.Sc.Agric. (4 yrs.); M.A., M.Sc., M.Sc.Agric. (1 yr. post-grad.); B.Ed. (2 yrs. post-grad.); LL.B. (4 yrs. or combined with B.A., 5 yrs.); D.Sc., Ph.D., Litt.D. (2 yrs. after Master's degree); and D.Sc.Agric. (1 yr. after M.Sc.Agric.); B.D. (3 yrs. post-grad.). Courses are also provided for the Secondary Teacher's Higher, Lower, and Primary Higher Certifs.

FEES. Registration, £2 p.a.; Library, 5s. p.a. Tuition per semester for M.A., M.Sc., B.Sc.Agric., B.A., B.Sc., LL.B., £10. Laboratory per semester, £4 : 15s. (max.). Examns.; B.A., B.Sc., £10; B.Sc.Agric., £20; M.A., M.Sc., and M.Sc.Agric., £5; Doctorate, £10; B.Educ., £8; LL.B., £30. Graduation, £2. Board and Residence, £50-£56 p.a.

LIBRARY. 16,000 vols.

PUBLICATIONS. 1. *The Calendar*; 2. *Univ. Monthly* (by Students' Repr.

Council); 3. *Annals*, Series A (Nos. I. and II.) and B (Nos. I. and II.); 4. *The Univ. of Stellenbosch* (Historical Review).

RESIDENCE. For 340 men, 150 women students.

SCHOLARSHIPS FOR GRADUATES. Generally tenable for 3 years, and open to holders of M.A., M.Sc., M.Sc.Agric., B.Educ., B.D., and LL.B (with B.A.): Porter, Croll, Queen Victoria, Grey, Donald Currie, Union (each £150 p.a.), Hiddingh and Ebden (£200 p.a.), Maynard (£60 p.a.).

EXTENSION WORK. Evening lectures by members of staff once a week.

THE YEAR 1923

FUNDS. Development Fund raised to £53,541; other donations, £5904; Fees, etc., £21,688; Govt. Grant, £36,587.

NEW BUILDINGS, ETC. The Chemistry building (£65,000); Gas Plant (£6500); Men's Hostel (£55,000); Dept. of Agric., £50,000, approaching completion. Library acquisitions, 2000 vols. at £1500.

The HONORARY DEGREE of LL.D. was conferred on Sir James Rose-Innes and Ex-President J. F. Reitz.

OTHER DEGREES CONFERRED. D.Sc., 1; M.Sc., 1; B.Sc., 30; M.A., 8; B.A., 70; B.Educ., 9; M.Sc.Agric., 1; B.Sc.Agric., 4.

STUDENTS in post-graduation courses, 99; degree courses, 459; teachers' courses, 113; special, 31.

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

CHANCELLOR—H.R.H. PRINCE ARTHUR OF CONNAUGHT.

VICE-CHANCELLOR—Sir ROBERT KOTZE, B.A.

PRESIDENT OF CONVOCATION—Prof. C. M. DRENNAN, M.A.

CHAIRMAN OF COUNCIL—Sir WM. DALRYMPLE, K.B.E.

PRINCIPAL—Sir WM. THOMSON, M.A., B.Sc., LL.D.

REGISTRAR—H. W. J. VAN DER BRUGGE, M.A., LL.B.

PROFESSORS, LECTURERS, ETC., November 5, 1924

Accounting

Findlay, J., C.A. Edin., F.S.A.A. Eng., I.A., R.P.A. Trans. [Prof.

Dix, F., B.Com., A.S.A.A. Eng., R.P.A. Trans. Lectr.

Finlayson, F. W. Lectr. in *Banking*.

Actuarial Science, v. Maths.

Anatomy

Dart, R. A., M.Sc. Queensland, M.B., Ch.M. Syd. Prof.

Laing, D. G., B.Sc., M.B., Ch.B. St. And. Sr. Lectr.

Macgregor, A. L., M.B. Edin. Lectr. (Clinical A.).

Edelstein, H. H., M.B. Edin. Hon. Demr.

Architecture

Pearse, G. E., A.R.I.B.A. Prof.

..... Lectr.

Bantu Studies

The Prof. of English Head of Dept.

Doke, C. M., M.A. S.A., Diploma Compar. Bantu, Lond. Sr. Lectr.

Hoernle, Mrs. A. W., B.A. Cape Research Fellow and Lectr. in Ethnology.

Botany

Moss, C. E., M.A. Camb., D.Sc. Manc., B.Sc. Leeds Prof.

Moss, Mrs. M., M.A. Well. Lectr.

Young, Miss E., M.Sc. S.A. Jr. Lectr.

Chemistry

Wilkinson, J. A., M.A. Camb., F.C.S. Lond. Prof.

Robertson, J. B., M.A., B.Sc. Edin. Sr. Lectr.

George, E., M.Sc. S.A. Lectr.

Pelling, A. J., B.A. Lond. Lectr.

Backeberg, O. G., B.A. Ox. Jr. Lectr.

Chemistry: Analysis and Research

Adam, H. R., B.Sc. Aberd., F.I.C.

Classics

Haarhoff, T. J., B.A., B.Litt. Ox. Prof.

Wagner, A. I., B.A. Ox. and Cape Lectr.

Williams, Miss M. V., M.A. Camb., B.A. Cape Sr. Lectr.

Clark, J. B., B.A. Ox. and Cape Lectr.

Dutch and German

Krige, J. D. A., Ph.D. Ghent, M.A. Cape (also Lectr. in German) Prof.

Le Roux, J. J., B.A. Cape, Litt.D. Utrecht Lectr.

Economics, Econ. Hist., and Statistics, v. also Hist.
Lehfeldt, R. A., B.A. Camb., D.Sc. Lond. Prof.

Education, v. also Philos.
Macgregor, W. R., M.A. Aberd. Prof.

Electro-Technics
Heather, H. J. S., B.A. Ox., M.I.C.E., M.I.E.E., F.Am.I.E.E. Prof.
Damant, E. L., B.Sc. Lond., M.Sc., A.M.I.E.E. Lectr.

Engineering, Mechanical
Orr, John, O.B.E., B.Sc. Glas., M.I.C.E., M.I.M.E., M.Am.S.C.E., M.Am.S.M.E. De Beers Prof.
Jensen, A. E., B.Sc. Lond. and S. Afr., A.M.I.Mech.E. Sr. Lectr.
Gimkewitz, F., B.Sc. S.A. Sr. Lectr.
Drysdale, J., A.M.I.E.S. Jr. Lectr.

Engineering, Civil
Charters, R. H., M.I.C.E. Prof.

English
Drennan, C. M., M.A. Camb. and Lond. Prof.
Lawrie, J. G., M.A. S.A. Lectr.

French and Romance
Maingard, L. F., M.A., D.Lit. Lond., L.e.D. Paris. Prof.
Mulligan, Mrs. A. Lectr.

Geography
Wellington, J. H., B.A. Camb. and Lond. Sr. Lectr.

Geology
Young, R. B., M.A. Glas., D.Sc. Edin. Prof.
Küpferburger, W., M.Sc. Stell. Lectr.

Hebrew [Prof.
Landau, J. L., Ph.D. Vien., M.A.

History
Macmillan, W. M., M.A. Ox. Prof.
Hodgson, Miss V. M. L., B.A. Ox. and Cape (also Lectr. in Econ. H.) Lectr.

Law
Murray, J. C. **Lectr.**
Schreiner, O. D., B.A. Cape, M.A. Camb. Asst.
Ramsbottom, W. H., B.A. Cape, LL.B. Camb. Asst.
Coaker, N. E., B.L., LL.B. S.A. Asst.

Mathematics [Prof.
Dalton, J. P., M.A., D.Sc. St. And. (also Lectr. in Actuarial Sc.)
Constançon, C., Dip. Ing. Zür. Sr. Lectr.
Kops, C. W., B.A. Cape (Asst. in Actuarial Sc.) Sr. Lectr.

Maths., Applied [Prof.
Le May, H., M.A., B.Sc. Glas.

Metallurgy and Assaying
Stanley, G. H., A.R.S.M., F.I.C., M.I.M.E., M.I.M.M. Prof.
Millin, D. M., B.A. Cape, F.I.C. Sr. Lectr.

Mining and Surveying
Watermeyer, G. A., B.A. Cape, A.R.S.M. Prof.

Music
Kirby, P. R., M.A. Aberd., A.R.C.M. Prof.

Philosophy [Prof.
Hoernle, R. F. A., M.A., B.Sc. Ox. Prof.
MacCrone, I. D., M.A. Cape, B.A. Ox. (also Lectr. in *Educn.*) Lectr.

Physics
Paine, H. H., M.A. Camb., B.Sc. Lond. & Wales Prof.
Evans, G. T. R., B.Sc. Wales Sr. Lectr.

Jr. Lectrs. :
Rosenstein, V., M.Sc. S.A.
Cooper, M. A., M.Sc. S.A.

Physiology
Cluver, E. H., B.A., D.M. Ox., B.A. Cape O. Beit Prof.
Stammers, A. D., B.A. Camb. Sr. Lectr.

Statistics, v. Economics

Veterinary Anatomy [Prof.
Mettam, R. W. M., M.R.C.V.S.

Zoology
Fantham, H. B., M.A. Camb., D.Sc. Lond. Prof.
Paterson, Miss N. F., B.Sc. Jun. Lectr.
Weinbrenn, Miss C., B.Sc. ,, ,,

Medicine (for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Ethics, Medical
Heberden, S., M.B., Ch.B. Lectr.

Fevers, Acute Infectious
Loeser, H. A., M.D. Zür. Lectr.

Forensic Medicine
Levin, J. J., M.B., Ch.B. Edin. (also (C) in Surg.) Sr. Lectr.

Gynæcology [Prof.
Grant, W. Gordon, M.D. Aberd.
Gibson, R. W., M.B., Ch.B. Camb. (C).

Medicine
Williamson, O. K., M.A., M.D. Camb., F.R.C.P. Lond. Prof.
Bensusan, A., M.D. Brux., M.R.C.S., L.R.C.P. (C).
Watt, A. H., M.B., C.M., F.R.C.S. Edin. (C).
Bloom, A., M.B., Ch.B. Edin., D.P.H. Lond. (C).
Braun, L. I., M.R.C.S., L.R.C.P. (C).
Block, I. J., M.B., Ch.B. Edin., F.R.F.P.S. Glas., F.R.C.S. Edin. (C).
Orenstein, A. J., M.D. Philad. Lectr. (Tropical Dis.).
Girdwood, R. L., M.D., Ch.B. Edin. (C).
Porter, Chas., M.D., Ch.B. (R.U.I.), D.P.H. Camb. Instr. (Vaccination).
Baumann, E. P., M.D., Ch.B. Edin., M.R.C.S., L.R.C.P. Lectr. (Med. Dis. of Children).
.....
Lectr. (*General Psychiatry*).
Dunston, J. T., M.D., B.S. Lond. (C) in Psychiatry.
Heiman, H. L., B.A. Cape, M.B., B.S. Lond., M.R.C.P. Tutor.

Obstetrics
McGibbon, J., M.B., F.R.C.P. Edin. Prof.
Abelheim, A., M.D. Kharkoff (C).

Pathology and Bacteriology
Watkins Pitchford, W., M.D. Lond., D.P.H. Ox., F.R.C.S. Hon. Prof.
Becker, J. G., M.B. Glas., D.P.H., D.T.M. Liv. Sr. Lectr.
Pirie, J. H., B.Sc., M.D., F.R.C.P. Edin. Sr. Lectr.
Porter, Annie, D.Sc. Lond. Sr. Lectr. (Parasitology).

Pharmacology
Watt, J. M., M.B., Ch.B. Edin. Prof.
Crawford, J., M.P.S. (S.A.) Instr.

Public Health
Porter, Chas., M.D., Ch.B. (R.U.I.), D.P.H. Camb. Sr. Lectr.

Radiology [Lectr.
Steuart, W., M.R.C.S., L.R.C.P.

Surgery, v. also Forensic
Thomson, G. Ritchie, C.M.G., M.B., C.M. Edin. Prof.
Daly, R. M., M.B., Ch.B. Durh., F.R.C.S. Edin. Senior (C).
Mursell, H. Temple, M.B., Ch.M. Edin., M.R.C.S. Eng. Sr. (C).
Brebner, J. W., M.B., Ch.B. Edin. Sr. (C).
Welchman, W., M.B., B.S. Lond. F.R.C.S. (C).
Mudd, F. B., M.R.C.S., L.R.C.P. Lectr. (Anæsth.).
Brinton, A. G., F.R.C.S. Edin., L.R.C.P. Lectr. (Dis. of the Eye).

(C) = Clinical Lecturer.

Gluckmann, H., M.R.C.S., L.R.C.P.
Lectr. (Venereal Dis.).
Maisels, I., M.B., Ch.B. Edin. (C).
Beyers, C. F., B.A. Cape, M.B., B.S. Lond., F.R.C.S. Eng.
Lectr. (Surg. Appl. Anat.), Demr. (Op. Surg.) (C).
MacNab, J., M.D., C.M. Glas., F.R.C.S. Edin.
Lectr. (Dis. of Ear, Nose, and Throat).
Ross, R. A., M.B., Ch.M. Edin., F.R.C.S. Eng.
Lectr. (Surg. Dis. of Children).

Hon. Demrs. (Anæsth.):
Gordon, Mary, M.B., B.S. Durh.
Weinbrenn, B., M.B., Ch.B. Edin.
Hall, Greenwood, M.B., Ch.B. Durh.

Venereal Diseases, v. Surgery

(C) = Clinical Lecturer.

GENERAL INFORMATION (v. also p. 464)

Telegraphic address—University, Johannesburg.

The TRANSVAAL TECHNICAL INSTITUTE, constituted in 1903, was opened in 1904 and took over at Johannesburg the work of the S. AFRICAN SCHOOL OF MINES, KIMBERLEY, which had been founded in 1896. In 1906 its name was changed to "TRANSVAAL UNIVERSITY COLLEGE," and in 1908 Arts and Science classes at Pretoria were placed under its control. This arrangement was terminated in 1910, when the Johannesburg part of the institution was incorporated under the name of the S. African School of Mines and Technology. Buildings, towards the cost of which the Council of Education, Witwatersrand, contributed £60,000 and Govt. £30,000, were opened in March 1909. In 1913 Commerce (Diploma) courses were established. In 1916 a Witwatersrand University Committee was formed in Johannesburg to promote the establishment of a fully equipped Univ. College financed by the State, as a step towards the formation of a University. In 1917 the School became one of the constituent colleges of the new federal Univ. of S. Africa. In the same year classes in Arts, Pure Science, and Medicine were inaugurated. In Sept. 1920 the institution became the "University College, Johannesburg." In 1921 the College was reincorporated as a University with effect from March 1, 1922. The students in 1916 and each of the following years up to 1922 numbered 77, 173, 191, 301, 635, 812, 983. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to Aug. 1924 amounted to £391,000. LIBRARIES: Seymour Memorial, 12,000 vols., and several departmental. MUSEUM with good Geol. collection.

FACULTIES: Arts, Sc., Comm., Engin., Law, Med.

DEGREE COURSES: B.A. or B.Sc., 3 (Hons., 4) yrs.; M.A. or M.Sc., 1 yr; B.Ed., 2 yrs. post-grad.; M.Ed. (special course and thesis after B.A. Honours or B.Ed.), B.Mus., LL.B. (post-grad.), B.Com., or B.Econ., 3 yrs.; B.Sc. (Eng.), B.Arch., 5 yrs.; M.Arch., M.B., B.Ch., 6 yrs. An alternative course for the B.Sc. in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

OTHER COURSES: for Diplomas in Archit., Music, Bantu Studies, Public Health, Actuarial Maths.; for Teachers' Certifs., Law Certif., Civil Service Law examn., Land Surv., Dent. (Prelim. subjects), Vet. Sc. (first 2 yrs.); Evening Classes at Johannesburg and elsewhere in Tech. and other subjects. FEES from 12 gs. p.a. (Civil Service Law) to £35 (M.B.).

SCHOLARSHIPS open to Graduates: Chamber of Mines, £250; Union, 2 of £150 each for 3 yrs.; Ainsworth (Mod. Hist.) every 2 yrs., £150 p.a. for 2 yrs.; H. B. Webb Research Gift, £200.

RESIDENCE. Hostels for 150 men and 35 women. Fees, £60 p.a.

UNIV. EXTENSION. Public lectures at the Univ. fortnightly; course of lectures at Benoni; W.E.A. Discussion circle; afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree.

PUBLICATIONS. *Calendar; Students' Magazine* (S.R.C.).

THE YEAR 1923–24

BENEFACTIONS AND GRANTS. Bannerman Bequest, £500, for the Depts. of Mech. Engineering, Geog., and Commerce; Union Govt. Grant, £52,970 for current expenditure and £82,450 for loan for building; Johannesburg Municipality Grant, £6000 for general purposes and £5000 for bursaries; other Reef Municipalities, £1400 for general purposes and £1080 for bursaries.

BUILDINGS completed for Depts. of Physics and Chem. Central Block (Arts and Administration) nearing completion. Engineering Block commenced.

NEW DEPARTMENTS AND POSTS. Addl. Lectrs. in Classics and History; 6 addl. clinical Lectrs. in Med. and Surg; Lectr. in Clin. Anatomy.

THE TECHNICAL EDUCATION BOARD, with outside representation, but controlled by the Univ., was constituted to take over the elementary technical evening classes hitherto conducted by the Univ.

REGULATIONS. A degree of M.Ed. was instituted (a special course and thesis after the B.A. honours or the B.Ed.); degree regns. revised for B.Mus. (3 instead of 4 years), and B.Arch. (5 instead of 4 years); degree of M.Arch. instituted; alternative course arranged for B.Sc. in Mining and Metallurgy (providing employment in the mines for students in their 4th year); Bantu recognized as a subject for B.Sc. and B.Com.; Portuguese recognized for B.A. and B.Com. New diplomas instituted: Music, Bantu Studies, Public Health, Actuarial Mathematics, and Architecture.

VISITORS FROM ABROAD. H. Hamshaw Thomas of Cambridge, Sir George Foster (of the Empire Parliamentary Delegation).

DEATH. J. M. Moll. RESIGNATIONS: Principal J. H. Hofmeyr (on appointment as Administrator of the Transvaal), succeeded by Sir Wm. Thomson. Prof. H. J. S. Heather, on reaching age-limit. A. T. Bryant, B. Ettlinger, Miss E. Taylor, W. L. Davies, L. G. Irvine.

SPECIAL DEVELOPMENT. *Vacation Course* in African Native Studies (including Languages, Anthropology, Phonetics, Law and Administration, Education, etc.) held in July-August.

STUDENTS. Graduates, 29 (including women—2); full-time undergraduates, 763 (women—246); part-time, 183 (w.—63); other full-time

courses, 192 (w.—40). By Faculties: Engineering, 153; Law, 74; Commerce, 168; Arts, 446; Science, 115; Medicine, 211 (women—17). About 11 students (Dental and Medical) went to Britain or America to continue studies.

HONORARY DEGREE. LL.D.—W. Cullen.

OTHER DEGREES (1923). B.A., 33 (women—12); M.A., 3 (w.—1); B.Sc., 21 (w.—11); M.Sc., 2 (w—1); B.Sc. (Eng.), 13; D.Sc. (Eng.), 1; B.Com., 4; LL.B., 4.

THE HEBREW UNIVERSITY, JERUSALEM

This University, comprising Institutes of Jewish Studies, of Chemistry and Biological Chemistry, and of Microbiology, is to be opened on April 1, 1925 by Lord Balfour. A Jewish National Library is being started in connection with it. It will be open to students of all nationalities and creeds.

UNIVERSITY OF MALTA

VISITOR—H.E. THE GOVERNOR OF MALTA.

PRESIDENT OF THE GENERAL COUNCIL AND RECTOR—Hon. Prof. T. ZAMMIT, C.M.G., M.D., Hon. D.Litt. Ox.

SECRETARY—A. F. SCIORTINO.

PROFESSORS, LECTURERS, ETC., November 14, 1924

Anatomy and Histology
Busuttil, R., M.A., M.D. Prof.
Briffa, J., B.Sc., M.D. Asst. Prof.

Biology, v. Nat. Hist.

Chemistry
Sultana, A., M.D. Prof.
Borg, S., M.D. Demr. in Expl. Sc.

Engineering and Architecture
Galea, R. V., L.S. & A., M.I.A. (also Lectr. in Descr. Geom. and Arch. Drawing) Prof.

English Literature [Prof.
Fogarty, Owen J., B.A. N.U.I.

Italian Literature
Laurenza, V., D.Lit. Naples Prof.

Latin Literature
Martinelli, N., D.Lit. Pisa Prof.

Law
Vassallo, Most Rev. Can. E., Jur. Can. Doc. (Canon L.) Prof.
Mallia, C., B.Litt., LL.D., M.L.A. (Comml. L.) Prof.
Vassallo, E. C., M.A., LL.D. (Const. and Internat. L.) Prof.
Randon, L. A., M.A., LL.D. (Crim. & Science of L.) Prof.
Bartolo, A., B.Litt., LL.D., M.L.A. (Hist. of Legisln. in England and Malta) Prof.
Frendo, P. G., LL D. (Fiscal Laws, Statistics and Admn.) Prof.

Logic and Philosophy
Cuschieri, Senator Very Rev. A., O.C. Prof.

Mathematics and Pract. Engin.
Nixon, W. F., B.Sc. Lond., A.R.C.Sc. Lond., Wh. Sch. Prof.

Mechanics, Applied, and Drawing
Gatt, J. L., L.S. and A. Prof.

Medicine and Surgery, v. *infra*

Natural History
Borg, John, M.A., M.D. Prof.

Philosophy, v. Logic

Physics
Agius, T., M.A., M.D. Prof.
Borg, S., M.D. Demr. in Expl. Sc.

Physiology and Pathology
Samut, R., M.B., C M. Edin. Prof.
Vincenti, R., M.D. Asst. Prof.

Political Economy
Sultana, A., LL.D. Prof

Theology
Formosa, Mgr. G., B.A., D.D., J.U.D. Prof. of Dogm. T.
Zammit, C., D.D. Prof. of Moral T.
Callus, Rev. D., O.P. Prof. in Holy Script. and Hebrew.

Medicine

Forensic M. and Toxicology
Ullo Xuereb, G. (v. Mental) Prof.

Hygiene and Preventive M.
Bernard, A. V., M.B.E., M.D., D.P.H. Prof.

Materia M., Pharmacy and Therap.
Cassar, I., M.D. Prof.

Medicine
Mifsud, Hon. C. Sen, M.D. Prof.
Debono, S., M.D. Asst. Prof.

Mental Diseases
Ullo Xuereb, G., M.D. Prof.

Midwifery and Gynæcology
Debono, G., M.D. Prof.
Harding, H., M.D. Asst. Prof.

Ophthalmology
Preziosi, Cont. L., B.Sc., M.D., D.O. Ox. Prof.

Pathology, v. Physiology

Surgery
Cassar, S., M.D. Prof.
Attard, G., B.Sc., M.D. Asst. Prof.

GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonçeca of the Order of St. John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591–93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicola Cottoner in the Great Hospital of the Order, which accommodated 745 patients. The authorities of the University as reconstituted by a Govt. Statute of 1921 are the Visitor, the Rector, the General Council (consisting of the Rector, six Professors, and three members elected by Convocation), six Faculty Councils, and Convocation.

LIBRARY, 5000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. MUSEUMS: Nat. Hist. and Archæol. OBSERVATORY, full meteorol. equipment and seismograph. BOTANICAL GARDEN. HOSPITALS, available for Clinics: general (260 beds) and several special; Leper Asylum (100); lunatic (700); aged poor (800).

FACULTIES: Literature, Science, Engineering and Architecture, Theology, Law, Medicine.

MATRICULATION involves passing an examn. in 5 subjects, including English, Italian, Maths., and, except for Engineering courses, Latin; for Med. students proposing to register in England, 6 subjects, including also Hist.

DEGREES, ETC. B.A., B.Sc., B.E. and A., M.D., LL.D., D.D., B.L. Can. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

SCHOLARSHIPS FOR GRADUATES. £120, one each in Theol., Law, Engin., and Med. (Travelling Scholps.). £50, one each in Theol., Law, Med. One of £120 awarded every 6 years in the faculty of Med.

THE YEAR 1923–24

NUMBER OF STUDENTS. Full-time, preparing for B.A., 16; B.Sc., 28; B.Eng. and Arch., 1; Dipl. in Pharm., 13; D.D., 6; LL.D., 19; M.D., 32.;

DIPLOMAS CONFERRED. Pharm. and Apoth., 1; Notary, 4.

RESIGNATION. Prof. Mons. M. Gonzi, on appointment as Bishop of Gozo.

DEATH: Prof. A. Vassallo, M.D.

THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the Univ. The London Univ., at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship—was taken as a model. " It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work " (*Report of the Calcutta Univ. Commission*, 1917–19). In pursuance of this policy, Univs. were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Univs. should have no teaching functions, but in point of fact they have until recently concerned themselves solely with examinations. In 1882 and 1887 the Univs. of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Univs. Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Univs., their assumption of teaching functions, and more effective supervision by them of the Colleges as well as more exacting conditions of affiliation. Univ. Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Univs., but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Univs. were established in 1916 and 1917. The foundation, structure, and working of institutions for higher education in India have been subjected to exhaustive re-examination by the Calcutta Univ. Commission, 1917–19. In the Univ. of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which were established in 1920 and the two following years the unitary, teaching, and residential Univs. of Aligarh, Dacca, Delhi, Lucknow, Rangoon, and the Osmania Univ. of Hyderabad, Deccan, and on which the Univ. of Allahabad was reorganized in 1921. The Nagpur Univ. was established by legislation

in 1923, and in the same year the Univ. of Madras was reorganized on lines somewhat similar to those of the Univ. of Allahabad. Recently the constitution of the Rangoon Univ. has been somewhat altered by an Act of the provincial legislature. A resolution, accepted by the Education Minister, in favour of the establishment of a Univ. at Agra was passed by the United Provinces Council in Jan. 1924.

CONSTITUTION. (*a*) The Univs. of Calcutta, Bombay, and the Panjab are still governed by the constitution framed under the Act of 1904. The Senate, comprising the (official) Chancellor, the Vice-Chancellor, and Fellows, constitute the Body Corporate of the Univ., the executive government being vested in a Syndicate of from 9 to 17 members, including the Vice-Chancellor and Director(s) of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. The constitution and abolition of Faculties rests with the Senate. The Panjab Univ. has recently constituted an Academic Council with definitely assigned, though not finally authoritative, functions relating to University teaching; the revision of the Constitution of the Senate and the Syndicate is, at present, engaging the attention of the governing authorities. In its application to Calcutta the Act of 1904 is modified by Act VII. of 1921.

(*b*) The new Univs. have a constitution modelled generally on that recommended for Calcutta by the Calcutta Univ. Commission:—(1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council; (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers; (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the Univ., and for the initiation of all changes in academic matters. The executive officers of the new Univs. are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but the Governor-General is now introduced as the Visitor or Lord Rector, with powers of inspection.

ADMISSION TO UNIVERSITY EXAMINATIONS is restricted to students of the Univ. and its affiliated Colleges, special exemptions in the case of teachers and similar persons being granted by the Syndicate or the Executive Council.

For ADMISSION TO THE UNIVERSITIES of Allahabad, Lucknow, Aligarh, and Dacca a student must have passed an examn. equivalent to the intermediate examn. of an Indian Univ. For admission to all other Universities a candidate must have studied at a recognized school and passed a matriculation or school final examn.

Applications for AFFILIATION are submitted by the Syndicate, if satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of

fees, etc., to Government. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In the Panjab Univ. affiliation questions are dealt with by the Senate instead of by the Syndicate.

TERMS. Univ. examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

DEGREE COURSES. In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Degree. English is a compulsory subject, except in the B.Sc. course of Calcutta. Madras and Panjab Univs. give an Honours degree in Arts (Panjab—in Arts and in Science) requiring an additional year of study.

Commerce. The B.Com. course covers ordinarily 2 yrs. (Mysore—3 yrs.) after passing the Intermediate examn. in Arts.

Law. The LL.B. (or B.L.) course covers 2 yrs. (Calc.—3 yrs.) after graduating in Arts or Science.

Medicine. The M.B. and B.S. course covers 5 yrs. (Calc.—6 yrs.), starting from the Intermediate examn. in Arts or Science or (Bom.) 6 yrs. from Matricn.

Teaching. The B.T. (All. and Mad.—L.T.) courses cover 1 yr. after graduating in Arts or Science. Calc. gives a L.T., obtainable by 2 yrs. of study after passing the Interm. examn. in Arts or Sc. Bombay requires either 3 yrs.' experience or 2 terms at a Training College after graduation, *plus* 1 yr.'s experience thereafter; Patna, 1 yr. of study 2 yrs. after passing the Interm. examn. in Arts or Science.

Engineering. For the B.E., Bombay gives a 3 yrs.', Calcutta, Madras and Patna a 4 yrs.', course.

HIGHER DEGREES. The M.A. or M.Sc., can be taken by bachelors of 2 yrs.' standing; the M.Sc. Mad. by B.Sc. (Hons.) of 1 yr.'s standing; the Ph.D. Mad. by B.A. (Hons.) or M.A. of 3 yrs.' standing; the D.Litt. of All. and D.Phil. of Calc. by M.A. of 3 yrs.' standing; the D.Lit. or D.Sc. of Panj. by M.A. or M.Sc. after 2 yrs. of further advanced study; the D.Sc. of All. by M.Sc. after 1 yr. of further study; the D.Sc. of Calc. or Mad. by M.Sc. of 3 yrs.' standing. A degree of M.Com. has been instituted by Bombay.

The LL.M. of All. and Bom., the M.L. of Mad., and the LL.B. (Hons.) of Panj. may be taken by LL.B. or B.L. of 2 yrs.' standing, the M.L. of Calc. at any time after taking the B.L. The LL.D. (or D.L.) is open to LL.M. (or M.L.) after 5 yrs. (Calc. 1 yr.) of practice.

The M.D. (and in Calc. M.O.) can be taken by medical graduates after experience (Luck. and Panj. 4 yrs., Calc. and Mad. 3 yrs., Bom. 5 yrs.) in the practice of their profession or hospital practice (Luck. and Panj. 2 or 3 yrs., Mad. and Calc. 1 or 2 yrs., Bom. 1 or 2 yrs., in addition to professional practice). The M.S. qualifications are similar, but in Calcutta both hospl. and professional practice are required.

STATUS OF THE NEW UNIVERSITIES. The Univs. of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature and of Lucknow and Rangoon by those of provincial legislatures. Their degrees and examns. are recognized by the Govt. of India to be equal in value to those of the older Univs. for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Govt. of India. The degrees of Mysore have been recognized by the Univs. of Bombay, Calcutta, the Panjab, and Madras, and by the Govt. of India. See also p. 544. Osmania degrees have been recognized by the Govt. of India as equivalent to those of the Univs. established by law in India.

Professor Karve's scheme for an Indian Univ. for women with headquarters at Poona proposes to organize there and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women. It is on entirely independent lines, and seeks no recognition or aid from Govt.

NUMBER OF STUDENTS in March 1923 in the 233 Arts and Professional Colleges was 66,136, including 1771 women.

RESIDENCE. One of the recommendations of the Commission of 1902 was that much closer attention should be given to the conditions under which students live and work, and very large sums have since been spent in providing hostels and otherwise improving the conditions of student life. In 1922–23 some 22,094 students (including 747 women) of Arts and Professional Colleges were accommodated in hostels or boarding-houses.

CONFERENCES. In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Assocn. of Indian Univs. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924. A resolution passed by the latter recommending the creation of an Inter-University Board is under consideration.

INDIAN STUDENTS AT THE HOME UNIVERSITIES. In view of the difficulties which have been experienced by Indian students coming to the United Kingdom, an organization has been established by Government for their assistance. This organization is under the control of the High Commissioner for India, and consists of an Indian Students Department at 42 Grosvenor Gardens, S.W.1, in charge of two Joint Secretaries to the High Commissioner for Indian Students' work, N. C. Sen, O.B.E., and Thomas Quayle, D.Lit., M.A., assisted by R. M. J. Knaster, B.A., and V. I. Gaster, B.A. There is also under the control of the Department a hostel at 21 Cromwell Rd., S. Kensington, S.W.7, which serves as a centre and meeting-place for Indian students in London and for a temporary residence for new arrivals. (Fuller information can be obtained from the Warden, or from the Advisory Committees in India.) There are Local Advisers to Indian Students at Manchester, Edinburgh, and Glasgow, and eleven advisory committees in India (Allahabad—Sec., P. N. Sapru, M.A., LL.B. Barr.-at-Law, The University; Ajmere—Sec., J. A. Richey, C.I.E., M.A.,

Rajputana ; Bombay—Sec., Prof. F. M. Dastur, M.A., Univ. Buildings ; Calcutta—Sec., Prof. J. C. Coyajee, B.A., LL.B., 7 College Sq. ; Dacca —Sec., A. N. Sen, M.A., B.Sc. ; Delhi—Sec., S. N. Mukarji, M.A., St. Stephen's College ; Gauhati—Sec., J. Barooah, Barr.-at-Law ; Lahore —Sec., A. C. Woolner, M.A., Univ. Apptmts. Board ; Madras—Sec., A. Davies, M.A., Barr.-at-Law, Principal, Law College ; Nagpur—Sec., S. R. Pandit, M.A., LL.B., Barr.-at-Law ; and Patna—S. N. Sahay, B.Sc., B.A., Barr.-at-Law). In the Panjab the functions of the Advisory Committee have been taken over, at the request of the Panjab Government, by a Committee of the Univ. under the name of Foreign Information Bureau, of which the Dean of Univ. Instruction is the Secretary. At Dacca a Univ. Bureau is being formed for the same purpose.

The Indian Students Department at 42 Grosvenor Gardens comprises a bureau for the supply of information on educational matters, and the Jt. Secs. act as guardians to Indian students when requested by the parents in India. A *Handbook of Information on the Educational Facilities of the United Kingdom* is published by the Department : a new edition was issued in July 1924. An annual report on its work is also published, copies of which can be obtained from the office of the High Commissioner or through any of the Agents for the sale of Govt. of India Publications.

The posts of Local Adviser to Indian students in Oxford and Cambridge were abolished in 1916, and were replaced by a Secretary to the Delegacy for Oriental Students at Oxford, and a Secretary to the Inter-Collegiate Indian Students Committee at Cambridge. These gentlemen are Univ. officers, and are in no way under the control of the High Commissioner for India.

Lord Lytton's Committee on Indian Students published their report in 1922 (H.M. Stationery Office, pp. 518 ; price 5s.).

ALIGARH MUSLIM UNIVERSITY

LORD RECTOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—HER HIGHNESS NAWAB SULTAN JEHAN BEGUM OF BHOPAL, G.C.S.I., G.C.I.E., C.I., G.B.E.

PRO-CHANCELLOR—HIS HIGHNESS AGA SIR SULTAN MOHAMED SHAH AGA KHAN, G.C.S.I., G.C.I.E.

VICE-CHANCELLOR—SAHIBZADA AFTAB AHMAD KHAN, B.A. Camb., Barr.-at-Law.

PRO-VICE-CHANCELLOR—ZIA-UD-DIN AHMAD, C.I.E., M.A. Camb., Ph.D. Gott., D.Sc. Alld.

TREASURER—SHAIKH ABDULLAH.

REGISTRAR—S. SAJJAD HYDER, B.A.

LIBRARIAN—L. K. HYDER, Ph.D.

TEACHING STAFF, August 1924

Arabic

Tritton, A. S., M.A. Ox., D.Litt. Edin. Prof.*

Abdul-Haq-Baghdadi Reader.

1 Lectr.

Botany

Hasan, Syed Hadi Reader * (Bot. and Zool.).

Rafiq-Ahmad, M.Sc. Benares Lectr.

1 Demr.

Chemistry

Haider-Khan, M., B.A. Camb. and All., B.Sc. Lond. Prof.

Mansuri, Q. Ali, M.A., Ph.D. Gött. Prof.

Bukhsh, A., M.A., B.Sc. All. Reader.*

1 Lectr., 1 Demr.

Economics

Hyder, L. K., B.A. All. and Camb., Ph.D. Heid. Prof.*

1 Lectr.

Education [Reader.

Mukerji, N. K., B.A., C.T.

2 Lectrs.

English

Dickinson, E. C., B.A. Ox. Prof.*

Hamer, D., B.A. L'pool. Prof.

Inamullah-Khan, M.A. Calc. Reader.

1 Lectr. and Tutor.

Geography

Dann, E W., M.A. Ox. Prof.*

History and Polit. Sc. [Reader.*

Haleem, A. B. A., B.A. Ox.

Habib, Mohd., B.A. Ox. Prof.

2 Lectrs.

Islamic Studies

Ashraf, M. S. Reader.*

1 Lectr.

Law

Ali Naqi, Syed, B.A. Reader.*

Abul-Hasan, Barr.-at-Law Reader.

2 Lectrs.

* Chairman of Dept.

Mathematics
The Pro-Vice-Chancellor Prof.
Kureishy, A. M., M.A. All. Reader.*
1 Lectr.

Persian [Reader.*
Hamid-uddin-Khan, M.A. All.

Philosophy
Sharif, M. M., B.A. Camb. Prof.*
Zafarul-Hasan, Syed, M.A. All., Ph.D. Erl. Prof.
1 Lectr.

Physics [Prof.
Mullick, D. N., B.A., D.Sc. Calc.
Murad, F. D., B.A., M.Sc. Panj. Reader.*
1 Lectr. and Tutor, 1 Demr.

Theology
Ansari, A. (Sunni) Dean.*
Husain, S. U. M. Abbas (Shia) Prof.*

Sanskrit
Sarup Shastri, Pandit Ram Reader.

Urdu [Reader.*
Sajjad Hyder, Syed, B.A.
1 Lectr.

Zoology, v. also Botany
Mohamed-Sheif, M.Sc. Lectr.

* Chairman of Dept.

GENERAL INFORMATION (v. also p. 500)

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ. School and Intermediate College attached as separate institutions. The Univ. receives Rs. 1,00,000 annually from the Govt. of India, Rs. 50,000 from the Local Govt., Rs. 36,000 from the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 21,000 vols. LABORATORIES: Physics and Chem.

The INTERMEDIATE COLLEGE prepares for the High School and Intermediate Examns., the latter being the admission examn. for the Univ. The Muslim UNIV. SCHOOL is a feeder to the Intermediate College and a practising school for the TRAINING COLLEGE.

COURSES. For students who have passed the Intermediate examn. of an Indian Univ.: two-year courses for the B.A. or B.Sc. Courses leading to M.A., M.Sc., and LL.B. degrees are also provided. FEES: for Tuition, Rs. 8 to Rs. 15 p.m.; Board and Residence about Rs. 20 p.m.

Numerous SCHOLARSHIPS FOR GRADUATES, enabling them to proceed to higher degrees, are awarded. One of Rs. 75 per month for research in Arabic, open to M.A. There is a loan fund for helping poor students.

THE YEAR 1922–23. Total number of Students in the Univ., Intermediate College, and Univ. School—1600.

UNIVERSITY OF ALLAHABAD

PATRON—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT, THE ACADEMIC COUNCIL, AND THE COUNCIL OF ASSOCIATED COLLEGES—Hon. Mahamahopadhyaya GANGANATH JHA, M.A., D.Litt.

REGISTRAR—M. G. V. COLE, M.A. (on leave).

ACTING REGISTRAR—J. M. DAVID, B.A.

LIBRARIAN—AMARNATHA JHA, M.A.

PROFESSORS, LECTURERS, ETC., October 1924

Arabic and Persian

Ali Nami, Syed Mohd., M.A. [Reader.

Lectrs. :

Ali, Syed Ishaq, C.T., M.F.

Zubaid Ahmad, M. G., M.A.

Majduddin, Syed, M.A.

Botany

Mitter, J. H., M.A., B.Sc. Panj. Reader.

Saksena, R. K., M.Sc. Lectr.

1 part-time teacher.

3 Demrs.

Chemistry

Dhar, N. R., M.Sc. Calc., D.Sc. Lond., I.E.S. Prof.

Sircar, Rai Saheb A. P., D.Sc., I.E.S. Prof.

Deb, S. C., M.A. Reader.

Chatterji, K. P., M.Sc. Lectr.

Taimini, I. N., M.Sc. Lectr.

5 Demrs.

Commerce and Economics

Burnett-Hurst, A. R., B.Sc. Lond., I.E.S. Prof.

Rudra, S. K., B.A. Camb. Reader.

Ghosh, M. K., M.A., B.Com. Lond. Reader.

Karwal, G. D., M.A. Panj. Lectr.

Bhatnagar, B. G., M.A. Lectr.

Jain, L. C., M.A., LL.B. Lectr.

Asthana, N. P., M.A., LL.B. Hon. Teacher (Comml. Law).

3 part-time teachers.

Education

Simpson, A. A., M.A. Aberd. Prof.

Wall, W. G. P., M.Sc. Liv. Reader.

Lectrs. :

Bhattacharya, K. C., M.Sc. Alld., L.T.

Chatterji, F. B., B.A., L.T., LL.B.

Kishore, K., B.A., L.T.

Mukerji, D. N., B.Sc., L.T.

Roy, S. P., B.A., L.T.

Moody, R. H., M.A. Ox. Prof. (Practising School).

English

Dunn, S. G., M.A. Ox., I.E.S. Prof.

Jha, A. N., M.A. Reader.

Pande, S. A., M.A., LL.B. Reader.

Deb, S. C., M.A. Reader.

Ojha, Damri, M.A., LL.B. Lectr.

Gupta, L. D., M.A. Lectr.

Misra, S. N., M.A., LL.B. Lectr.

Sircar, K. M., M.A., M.Sc. Lectr.

2 part-time teachers.

History

Khan, S. A., M.A., Litt.D. Prof.

Lloyd, C. P. W., M.A. Dub., I.E.S. Reader.
Parmanand, M.A. Lectr.
Tripathi, R. P., M.A. Lectr.
Prasad, Beni, M.A. Lectr.
Prasad, Ishwari, M.A., LL.B. Lectr.
Saxena, B. P., M.A. Lectr.
1 part-time teacher.

Indian Vernaculars
Zamin Ali, Syed, M.A. Lectr. (Urdu).
Varma, D., M.A. Lectr. (Hindi).

Law
Weir, J. C., B.A., LL.D. Dub., Barr.-at-Law Prof.
Chaudhri, S. C., M.A. Calc., LL.B. Reader.
Jang, M. U. S., Barr.-at-Law Reader.
Mukerji, H. K., M.A., B.L. Lectr.

Mathematics
Banerji, A. C., M.Sc. Calc., B.A. Camb., I.E.S. Reader.
Tiwari, S. G., M.A. Lectr.
Srivastava, P. L., M.A. Lectr.
Prasad, B. N., M.A. Lectr.

Philosophy
Burrell, P. S., M.A., I.E.S. Prof.
Randle, H. N., M.A. Ox., I.E.S. Reader.
Mukerji, A. C., M.A. Lectr.

Physics
Saha, M. N., D.Sc. Calc. Prof.
Bhargava, S. R., M.Sc. Reader.
Ghosh, R. N., M.Sc. Lectr.
3 Demrs., 1 part-time teacher.

Sanskrit
Acharya, P. K., M.A. Calc., Ph.D., D.Litt. Lond., I.E.S. Prof.
Saksena, B. R., M.A. Lectr.
Sovani, V. V., M.A. Lectr.
Misra, Umesh, M.A. Lectr.
Chatterji, K. C., M.A. Lectr.

Zoology [Reader.
Bhattacharya, D. R., M.Sc.
Dass, B. K., M.Sc. Lectr.
Das, R. S., M.Sc. Lectr.
2 Demrs.

COLLEGES OF THE UNIVERSITY

Ewing Christian College, Allahabad (American Presbyterian Mission). Principal, and Prof. of English—C. A. R. Janvier, M.A. Princeton, D.D. Vice-Principal, and Prof. of Philos.—N. C. Mukerji, M.A. Calc. Other Profs.: H. T. Bose, M.A. Calc. (English and Philos.); N. B. Mitra, M.A. Calc. (Maths.); N. K. Sur, M.Sc. (Physics); C. D. Thompson, Jr., M.A. Col. (Econ.); Winfield Dudgeon, Ph.D. Chic. (Bot.); H. G. Kribs, Ph.D. Penn. (Zool.); C. A. Warburton, B.A. Cornell (Econ.); B. B. Malvea, M.Sc. (Chem.); K. W. S. Jardin, B.A. Ox. (Hist.); F. R. Collins, M.A. Wooster (Hist.). 12 other Profs. and Lectrs.

Kayastha Pathshala College, Allahabad. Principal—Tara Chand, M.A., D.Phil. 7 tutors.

Crosthwaite Girls' College, Allahabad. Lady Principal—Miss W. Clarke. Teachers—Miss Sudhalata Duara and Miss Sukhlata Duara, M.A. Cornell; Mrs. C. Gardner, B.A.; Miss Nurjehan Yusuf, M.A.

GENERAL INFORMATION (v. also p. 500)

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Thereafter it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ.

as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in " Associated " colleges.

LIBRARY, 40,000 vols. MUSEUM in connexion with Economics Dept.

FACULTIES. Arts, Science, Law, Commerce, and Economics.

DEGREES, ETC. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; LL.B., LL.M., LL.D.; L.T. (Teaching); B.Com.

The *courses* of study in the Univ. for the bachelor's degree cover 2 years. Admission to these courses is by examn. of " Intermediate " standard, equivalent to the Higher School Examn. of the Univ. of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India are recognized for this purpose.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated are accepted as equivalent to Allahabad B.A. and B.Sc.

SCHOLARSHIPS FOR GRADUATES. 2 Emp. Vict. Research Readerships, Rs. 100 p.m. (3 yrs.) for M.Sc.; 3 Research Scholarships of Rs. 100 each (1 yr.) in History Dept. There is a SPECIAL FUND for enabling students and staff to proceed to *Foreign Countries* for higher studies.

RECOGNIZED HOSTELS. Ten at Allahabad and Agra.

PUBLICATIONS. *Calendar*, Rs. 5; *Univ. Examns. Prospectus*, Re. 0.8.0.; *Univ. Minutes*, Rs. 5; *University Magazine*, Rs. 2.8 p.a.; *Journal of Economics*, Rs. 12 p.a.; *Annual Report.*

ASSOCIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA COLLEGE. M.A.; M.Sc.; LL.B. Principal and Prof. of *English Lit.*—T. Cuthbertson Jones, B.A. Lond. Other Profs.: *English*—C. Goswami, M.A. *Arabic and Persian*—Syed Mohd. Ibn. Ibrahim, M.A. *Biol.*—K. C. Mehta, Ph.D. Camb., M.Sc. Panj. *Chem.*—H. Krall, B.A., B.Sc. Dub.; B. L. Vaish, M.Sc. *Economics*—L. N. Ghosh, M.A. *History*—D. L. B. Riley, B.A. Ox. *Law*—Nilmani Dhar, B.A., B.L. Calc.; Joti Prasad, B.A., B.Sc., LL.B. *Maths.*—E. N. Banerji, M.A., B.Sc. *Physics*—S. P. Prasad, B.Sc. Calc., B.A. Camb; S. K. Mukerji, M.Sc. *Sansk.*—K. L. Misra, M.A. *Zool.*—H. S. Seth, M.Sc., LL.B. 13 Lectrs. and 5 Demrs.

AGRA, *St. John's College.* M.A., in all subjects except Sanskrit and Arabic; B.Com.; M.Sc. in Maths., Physics, Botany, and Zoology. Under the general control of the Church Missionary Society. Admits non-Christians, but is especially for Christians. Principal and Prof. of *English*—A. W. Davies, M.A. Ox. Vice-Principal and Prof. of Philos. and Logic—T. D. Sully, B.A. Ox. Other Profs.: *English*—W. Owens, B.A., M.B.E.; C. Mahajan, M.A.; C. L. H. Sumner, B.A. Camb. *Philos. and Logic*—H. Mark, B.A. Camb.; H. B. Mundle, M.A. Calc. *Maths.*—C. Chaturvedi, M.A., B.Sc.; Kunwar Bakadur, M.A. *History*—J. C. Taluqdar, M.A. Calc.; T. G. John, M.A. Madras. *Economics*—J T. Goodchild, M.A. Sheffield. *Persian*—A. H. Faridi, M.A., L.T.; M. Ali Ahmad-Khan. *Sansk.*—Pt. Ghanshyam Sharma. *Physics*—A. C. Datta, M.A. Calc.; K. C. Banerji, M.Sc. *Chem.*—K. C. Pandya, Ph.D. Lond.; N. M. Antani, M.A. Bom. *Zool.*—L. P. Mathur, M.Sc. Benares; C. John, M.A. Mad. *Botany*—F. H. E. Martin, B.A. Ox.; N. M. Mukerji, M.Sc. Calc. *Commerce*—L. Steele, F.I.A. Lond.; J. C. De, M.Com. Calc.; C. M. Gupta, M.A. Ohio. 8 Lectrs. and Demrs.

AJMER, *Govt. College.* B.A.; B.Sc. in Maths., Physics, and Chem. Principal—A. Miller, M.A., St. And. 10 Profs., etc.

BAREILLY COLLEGE. B.A. Principal—F. J. Fielden, M.A. Lond. and Camb. 9 other Teachers, 160 students.

CAWNPORE, *D.A.-V. College.* B.A. and Comml. Diploma. Principal—Diwan Chand, M.A. Profs.: *Engl.*—D. N. Chakravarti, M.A., and Ramagyan Divivedi, M.A. *Commerce*—D. K. Sukhwalkar, M.A., LL.B., B.Com. 10 other Profs.

CAWNPORE, *Sanatan Dharma College of Commerce.* B.Com. Principal—S. P. Bhargava, M.A., LL.B. 11 other Teachers.

GORAKHPUR, *St. Andrew's College.* B.A. Principal—A. C. Pelly, M.A. Camb. 11 other Profs.

GWALIOR, *Victoria College.* B.A.; B.Sc. Entirely supported by the State. Principal—H. F. Manley, M.A. Camb. 17 other Profs.

INDORE, *Christian College.* M.A. in Philos. Principal—R. A. King, M.A. Manit., B.D. Edin., D.D. Tor. Other Profs.: A. A. Scott, M.A. Tor.; H. W. Lyons, B.A. Tor. 8 other Profs., etc.

INDORE, *Holkar College.* B.A.; B.Sc. Maintained by the State. Principal—V. A. Sukhtankar, Ph.D. Bonn. 16 other Profs.

JAIPUR, *Maharaja's College.* M.A.; B.Sc. Maintained by the State. Principal (Dir. of Pub. Instruction)—N. K. Ray, B.A. Calc. 14 Profs.

JODHPUR, *Jaswant College.* B.A. Principal—Suraj Prakash, M.A. 7 Profs.

MEERUT COLLEGE. M.A.; B.Sc; LL.B. Principal—Major T. F. O'Donnell, B.A. R.U.I. 23 Profs., etc.

THE YEAR 1923-24

BENEFACTIONS. Govt. aid, Rs. 6,66,750; Endowments: heirs of the late Genl. Ali Asghar Khan, Rs. 17,200 in 3½ p.c. G.P. notes for one or more Arabic Scholarships of Rs. 25 per mensem open to students of the Univ., preferably Muslims; the Vice-Chancellor of the Univ. the whole amount of remuneration that might fall due to him for doing examination work for the Univ. during his Vice-Chancellorship for prizes open to students taking degrees in Sanskrit. Important additions to EQUIPMENT: X-ray and infra-red spectrometers and other accessories for X-ray work, and one infra-red spectrometer for the Laboratory of the Physics Department.

A NEW DEPARTMENT of the two provincial vernaculars—Urdu and Hindi—was created. B.Sc. HONOURS courses were instituted.

ADVANCED STUDY IN OTHER COUNTRIES. A *special fund* was instituted to enable students and staff to proceed to foreign countries for higher studies. Beni Prasad, Lectr. (History), was granted a loan of Rs. 6000 to enable him to study in England; B. K. Das, Lectr. (Zool.), and D. R. Bhattacharya, Reader (Zool.), also proceeded to England to qualify for higher European degrees; their places were filled temporarily.

OTHER STAFF CHANGES. Resignations: P. N. Bhattacharya, Lectr. (English), to take a post under Govt.; Wali Ullah, Reader (Muh. Law), to take up practice; K. B. Mittra, Reader (Maths.), retired. Appointments of

teachers from other Univs., etc. : M. N. Saha (Physics) from Calcutta ; Umesh Misra (Sanskrit) from Benares ; V. V. Sowani (Sanskrit) from Meerut College.

NEW AFFILIATIONS, ETC. St. John's College, Agra, affiliated up to M.A. in Econ. and Persian, M.Sc. in Physics, Chem., and Zool., and B.Com. ; Meerut College to M.A. in English and History. Recognized for admission to undergraduate classes, the intermediate examn. of other Univs. in British India ; for admission to post-graduation classes—B.A. and B.Sc. of any Univ. in British territory recognized by the law of the place in which it is situated.

The Higher School certificate examn. of the Univ. of Cambridge was recognized as = the intermediate examn.

The Viceroy of India visited the Univ. in Oct. 1924.

DEGREES GRANTED. B.A., 326 (including women—2) ; B.Sc., 129 (w.—1) ; M.A., 76 (w.—1) ; M.Sc., 23 (w.—1) ; L.T., 63 ; LL.B., 173 ; D.Sc., 1.

STUDENT ENROLMENT. Faculty of Arts, 471 (including women—6) ; Science, 227 (w.—4) ; Law, 301 ; Economics and Commerce, 6. Total, 1005 (w.—10).

UNIVERSITY EXTENSION WORK. Many popular lectures were delivered by the members of the teaching staff.

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VISITOR—THE GOVERNOR OF THE UNITED PROVINCES, *ex officio*.

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TREASURER—Hon. RAJA MOTI CHAND SAHEB, C.I.E.

REGISTRAR—Professor SYAMA CHARAN DE, M.A.

On April 1, 1916, a teaching and residential Hindu University was incorporated " for the purposes, among others, of making provision for imparting education, literary, artistic, and scientific, as well as agricultural, technical, commercial, and professional, of furthering the prosecution of original research, and of giving instruction in Hindu theology and religion, and of promoting the study of literature, art, philosophy, history, medicine, and science, and of imparting physical and moral training."

The University began to function on Oct. 1, 1917, when it became responsible for the maintenance of the Central Hindu College, Benares. Colleges of Oriental Learning and Theology, and a Training College were opened in July and Aug. 1918, a College of Engineering in 1919, a Department of Mining and Metallurgy and a Law College in 1923. The Univ.'s assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 1,00,000 and 75,000 respectively, are valued at Rs. 1,80,00,000.

Every member of the *Court*, the supreme governing body, must be a Hindu.* It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

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ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is

* An exception was made in the case of Dr. Annie Besant.

compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.

FACULTIES. Oriental Learning, Theology, Arts, Science—Pure and Applied, Law.

DEGREES. B.A., M.A., D.Litt., B.Sc., B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., Shastri, Shastracharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., L.T. The admission qualification for Degree course (4 yrs.) in Mining or in Metallurgy is Interm. Sc. examn. of an Indian Univ. or Board of Interm. Education, with Physics, Chem., and Maths.

RESIDENCE. Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 5 hostels accommodating 1200 students and 84 residences for members of the staff.

SCHOLARSHIPS. 76 for Arts and Science students of merit, 20 for Teachers' Training College. Numerous other College Scholps.

DEGREES CONFERRED IN 1924. B.A., 101; M.A., 12; B.Sc., 38; M.Sc., 12; B.E., 12; L.T., 39; Shastri, 11; Smritiratna, 1; Shastracharya, 3.

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ENGINEERING COLLEGE. Principal and Prof. of Mech. E.—C. A. King,

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PUBLICATION. *Calendar* (March); vol. i. Rs. 3, vol. ii. (examn. pp.) Rs. 2.

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POONA, *Government College of Engineering.* In Engin. (Civ. and Mech.) courses. Principal, and Prof. of *Civil Engin.*—W. L. C. Trench, B.Sc, B.A.I. Dub., A.M.I.C.E. Other Profs.: *Struct. Design*—H. P. Jordan, M.Sc. *Elec. Engin.*—P. G. Dani, B.A., B.Sc. *Engin.*—C. Graham Smith, O.B.E., V.D., A.C.G.I., A.M.I.C.E. *Chem. and Geol.*—G. G. Narke, M.A. Calc., M.Sc. Manc. *Mech. Engin.*—A. David, B.Sc., M.E., A.M.I.E. An Asst. Prof. and 5 Lectrs.

POONA, *New Poona College.* In Arts. Under control of Shikshana Prasarak Mandali. Principal, and Professor of *Mathematics*—N. M. Shah, M.A. Camb. Other Profs.: *Econ. and Hist.*—R. P. Sabnis, M.A. Camb. *Engl. and Sansk.*—R. D. Karmarkar, M A. *Engl.*—R. K. Lagu, M.A. *Philos.*—N. G. Naralkar, M.A., L.T.; V. P. Patwardhan, M.A. *Physics*—M. R. Paranjpe, M.A., B.Sc. 10 other Teachers.

POONA, *Poona Law College.* Under control of the Indian Law Society. Principal—J. R. Gharpure, B.A., LL.B. (Hons.). 7 other Profs.

SANGLI, *Willingdon College.* In Arts. Under control of the Deccan Educn. Society. Principal, and Prof. of *Logic and Moral Philos.*—G. C. Bhate, M.A. 8 other Profs.

SURAT, *Sarvajanik College.* In Arts. Under control of Gujarat Educn. Soc. Principal, and Prof. of *Engl.*—V. K. Rajvade, M.A. 14 other Profs.

THE YEAR 1923–24

BENEFACTIONS. Sir Currimbhoy Ebrahim Scholarships, endowment (3½ p.c. Govt. securities, nominal value, Rs. 10,00,000) for Mahomedan students going to foreign countries for higher studies.

CHANGES IN REGULATIONS. The whole course of Engineering and Medical Examns. was revised. A new degree of M.Com. was instituted.

NEW AFFILIATIONS. (1) A full grade Law College at Poona, founded by the Indian Law Society, for the 1st and 2nd LL.B. Examns. (2) Nadirshaw E. Dinshah Civil Engineering College, Karachi, for the degree of B.E.

A scheme of UNIVERSITY POST-GRADUATION STUDIES by research in Economics, Sociology, Sanskrit, and allied languages, History (more especially Indian History) and Maths. was prepared.

NUMBER OF STUDENTS who presented themselves for degree examns. and (in brackets) those who took degrees: B.A., 1133 (645); LL.B., 597 (311); M.B., B.S., 551 (140); B.Com., 61 (30); B.Sc, 181 (93); B.Ag., 68 (45); B.T., 26 (20); B.E., 83 (40): Higher degrees, 163 (100).

UNIVERSITY OF CALCUTTA

CHANCELLOR—THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—The Hon. Sir WM. EWART-GREAVES, M.A.

PRESIDENT, POST-GRADUATE COUNCILS—Sir NILRATAN SIRCAR, M.A., M.D., LL.D., D.C.L.

REGISTRAR—J. C. GHOSH, M.A.

CONTROLLER OF EXAMINATIONS—RAI BAHADUR A. C. BOSE, M.A.

INSPECTOR OF COLLEGES—H. C. MOOKERJEE, M.A., Ph.D.

SECRETARIES TO THE COUNCILS FOR POST-GRADUATION STUDIES: in Arts—G. N. BANERJEE, M.A., Ph.D.; in Science—H. C. BANERJEE, M.A., B.L.

UNIVERSITY PROFESSORS, September 25, 1924

Agriculture
Ganguli, N. N., B.Sc. Illinois [G. P. Singh Prof.

Art: Indian Fine Arts
Tagore, A. N., C.I.E., D.Litt. Bageswari Prof.

Botany
Agharkar, S. P., M.A., Ph.D. Berlin Sir R. B. Ghosh Prof.
Brühl, P. J., D.Sc., I.S.O., F.C.S., F.G.S. Prof.

Chemistry
Ray, Sir P. C., Kt., C.I.E., D.Sc. Lond., Ph.D., F.C.S. Sir T. N. Palit. Prof.
Mitter, P. C., M.A., Ph.D. Berl. Sir R. B. Ghosh Prof.
Sen, H. K., M.A., D.Sc. Lond. Sir R. B. Ghosh Prof. of Applied C.
Mookerjee, J. N., D.Sc. Lond. G. P. Singh Prof.

Economics
Banerjee, P. N., M.A., D.Sc. Lond. [Minto Prof.

English
Stephen, H., M.A., D.D., Ph.D. [Prof.

History and Culture, Ancient Indian
Bhandarkar, D. R., M.A., Ph.D. [Carmichael Prof.

Law
Pal, R., M.A., D.L. Tagore Prof.

Mathematics
Prasad, Ganesh, D.Sc. Lond. (Higher M.) Hardinge Prof.
Mookerjee, S. D., M.A., Ph.D. Prof.
Sen, N., D.Sc. (Applied M.) Sir R. B. Ghosh Prof.

Mental and Moral Science
Radhakrishnan, S., M.A. George V. Prof.
Haldar, H. L., M.A., Ph.D. Prof.

Philology, Comparative
Taraporewala, I. J. S., B.A., Ph.D. Prof.

Phonetics, Indian Linguistics and
Chatterjee, S. K., M.A., D.Litt. Lond. G. P. Singh Prof.

Physics [Palit. Prof.
Raman, C. V., M.A., D.Sc., F.R.S.
Bose, D. M., M.A., Ph.D. Berlin
Sir R. B. Ghosh Prof.

Ghosh, Phanindranath, M.A. Ph.D., D.Sc. Lond.
Sir R. B. Ghosh Prof. of Applied P.
Mitra, S. K., D.Sc.
G. P. Singh Prof.

Zoology
Mitra, K., B.A. Prof.

POST-GRADUATE TEACHERS IN ARTS. *Economics*, 19 ; *English*, 18 ; *History*, including *History and Culture, Ancient Indian*, 51 ; *Indian Vernaculars*, 23 ; *Mathematics, Pure*, 11 ; *Pali*, 8 ; *Persian and Arabic*, 5 ; *Philology, Comp.*, 4 ; *Philosophy*, 17 ; *Psychology, Expl.*, 8 ; *Sanskrit*, 23 ; *Anthropology*, 10 ; *Commerce*, 19.

POST-GRADUATE TEACHERS IN SCIENCE. *Botany*, 3 ; *Chemistry*, 11 ; *Geology*, 3 ; *Mathematics, Applied*, 8 ; *Physics*, 13 ; *Physiology*, 4 ; *Zoology*, 5.

UNIVERSITY LAW COLLEGE. Principal—S. C. Bagchi, B.A., LL.B., LL.D. Vice-Principal—B. M. Majumdar, M.A., B.L. Professors : *C.P. Code and Evidence*—Birajmohan Majumdar, M.A., B.L., and 3 others. *Crim. L.*—Haraprasad Chatterjee, M.A., B.L., and 3. *Equity*—The Principal and 3. *Hindu L. and Const. L.*—J. P. Sarbadhikary, M.A., B.L., and 8. *Internat. L., Private*—P. Chaudhury, M.A. *Jurispr. and Roman L.*—Karunamay Basu, M.A., B.L., and 9. *Land Laws*—S. C. Datta, and 3. *Real Property, Contracts and Torts*—S. C. Roy, B.A., LL.B., Barr.-at-Law, and 8. *T.P. Act, Mahom., and Pers. L.*—M. N. Roy, M.A., B.L., and 7.

GENERAL INFORMATION (v. also p. 500)

Founded in 1857, this Univ. has been mainly an examining body, but has provided facilities for research since 1893 (when the Premchand Roychand Endowment was applied to this purpose), and post-graduate teaching since 1909. In 1917 a new scheme for post-graduate teaching came into operation under which all students who desire instruction in the M.A. or M.Sc. courses in Calcutta must be registered in the Senate House as Univ. students. A Commission under the Presidency of Sir Michael Sadler, K.C.S.I., appointed by the Govt. of India in Sept. 1917 to inquire into the condition and prospects of the Univ. and consider the question of a constructive policy, presented a comprehensive report and a series of important recommendations in March 1919. Teaching in all the subjects for the B.Com. examn., including French, German, and other modern languages, Arabic, Pali, Persian, Tibetan, Chinese, and Japanese, and an annual course of lectures on "*The Poverty Problem*" are provided by the Univ.

Government grants from 1912 to 1923 amounted to Rs. 38,00,000, including Rs. 4,23,000 for endowment of chairs, and Rs. 13,36,000 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 60,86,000.

The Univ. buildings (expenditure on which from 1912 to 1923 amounted to Rs. 28,00,000) include a Senate House, completed in 1872 at a cost of Rs. 4,35,000, the Durbhanga LIBRARY (100,000 vols.) with Law College, Hostel, and Univ. offices (Rs. 12,00,000), the Univ. Press, and Examn. Halls and Lecture Rooms. LABORATORIES (in Univ. Coll. of Science) : Phys. and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., Agric., Indian Fine Arts.

FACULTIES. Arts, Science, Law, Medicine, Engineering. The Affiliated Institutions (v. *infra*) include Colleges of Law (Calcutta—Ripon and Univ.—Gauhati), Medicine (Belgachia and Calcutta), Engineering (Sibpur), and Teaching (Calcutta—David Hare and Diocesan).

DEGREES, ETC. B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.Com.; D.S.E., L.T., B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.P.H.; B.E., D.Sc. (Engin.).

STUDENTS' WELFARE. A committee of medical experts deals with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. Military Training is provided for a Univ. Corps recruited from affiliated colleges. At the Hardinge Hostel for Law students the monthly charges amount to from Rs. 23 to Rs. 25.

RESEARCH STUDENTSHIPS, ETC. Premchand Roychand, Rs. 1400 p.a. for 3 yrs., awarded annually, 1 in Lit. and 1 in Science subject; Sreegopal Basumallik (fellowship), Rs. 1200 p.a. for 3 yrs. in Vedanta Philos.; Durbhanga, Rs. 600 in Med.; Sir R. B. Ghosh, Rs. 900, 8 annually to Science students to be attached to the Sir R. B. G. Profs.; Guruprasanna Ghosh, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or Europe or America (Rs. 2000) by Bengal Hindus; Palit., Rs. 1,00,000 endowment for research or investigation out of India; Sir R. B. Ghosh Travelling Fellowships (3), Rs 2,50,000 endowment for research or investigation out of India for 1 yr.; Jubilee post-graduate scholarships in literary and scientific subjects, Rs. 32 p.m. for 2 yrs., one in each subject of the Honours B.A. and B.Sc. examns.; Sir P. C. Ray, annual prize for research in Chemistry, by a graduate student of the Univ. working in the College of Science, gold medal (value Rs. 100) and Rs. 500 in cash; Sir B. K. Bose, annual scholarship of Rs. 40 p.m. for a graduate student of the Univ. College of Science; S. N. Ghosh Lectureship in Comp. Religion, Rs. 9000; Tagore Professorship in Law, Rs. 9000; Kamala Lectureship in Indian Life and Thought, Rs. 1000 and gold medal. Numerous other scholarships, medals, and prizes.

PUBLICATIONS. *Calendar*; *Calcutta Review*, quarterly, with monthly supplements, annual subsn., Rs. 7 inland, Rs. 10 foreign; *Journals* of Depts. of Letters and of Science, Rs. 9 per vol.; Bulletin of Math. Society; Sir Asutosh Mookerjee, silver jubilee volume, Rs. 11.4.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[M.A., etc. = Affiliated up to M.A., etc., standard. 1923 in square brackets means that no returns have been received since 1923.]

BANKURA, *Wesleyan College*. B.A. and B.Sc. Principal—A. E. Brown, M.A. Camb., B.Sc. Lond. Vice-Principal—A. R. Spooner, B.A. Lond. 22 other Teachers.

BARISAL, *Brojomohan Institution*. B.A. Principal, and Prof. of *Maths.*—S C. Chatterjee, M.A. Vice-Principal—K. P. Ghosh, B.A. 27 other Teachers.

BELGACHIA, *Carmichael Medical College*. M.B. Principal—Kedarnath Das, C.I.E., M.D. Profs.: *Anat.*—M. N. Bose, M.B., C.M. Edin. *Physiol.*—S. P. Niyogi, M.Sc., M.B. *Mat. Med.*—P. Nandi, M.D. *Midw.*—K. N. Das, C.I.E., M.D. *Surg.*—M. Mitra, M.D., F.R.C.S. Edin. *Med.*—B. C. Roy, M.D., M.R.C.P., F.R.C.S. *Jurispr.*—Major C. A. Godson, I.M.S. *Op. Surg.*—L. M. Banerjee, M.S. Calc., F.R.C.S. Eng. *Hygiene*—T. N. Majumdar, D.P.H. 29 other Teachers.

BERHAMPUR, *Krishnath College.* B.A. and B.Sc. Two years' course for Diploma in Commerce. Principal—N. G. Leather, M.A. Camb. 40 Profs. and other Teachers. [1923.]

BHOWANIPUR, *Asutosh College.* Principal, and Prof. of *Econ.*—Panchanan Sinha, M.A., B.L. 28 other Teachers.

CALCUTTA, *Bangabasi College.* B.A. and B.Sc. Principal—G. C. Bose, M.A., M.R.A.C., M.R.A.S. 38 Teachers.

CALCUTTA, *Bengal Engineering College* (Govt.), Botanic Garden P.O., Howrah. B.E. Principal—T. H. Richardson, M.A., B.A.I. Dub., M.I.C.E. Irel., M.I.E. Ind. Profs. of *Civil Engin., Elec. Engin., Mech. Engin., Mining, Physics, Maths.*, and *Chemistry.* 27 other Teachers.

CALCUTTA, *Bethune College* (Girls). B.A. Supported by Govt. Principal —Miss G. M. Wright. 13 Teachers. [1923.]

CALCUTTA, *City College.* B.A. and B.Sc. Principal, and Prof. of *Engl. Lit.*—Herambachandra Maitra, M.A. Vice-Principal, and Prof. of *Maths.*—K. P. Chattoraj, M.A. 44 other Teachers. [1923.]

CALCUTTA, *David Hare Training College* (Govt.). B.T. Acting Principal, Prof. of *Hist. of Educn.*—Chintaharan Chakravarti, M.A., B.T. Other Profs.: Binayabhusan Sarkar, B.A., B.T.; K. B. Hore, M.A., B.T.; Banabilas Ray, M.A., B.T.; G. C. Das-gupta, B.A., B.T. [1923.]

CALCUTTA, *Diocesan College* (Girls). B.A., B.T. Principal—Sister Georgina. 10 Teachers.

CALCUTTA, *Loreto House* (Girls). B.A. Established 1842. Connected with Univ. since 1889. Principal—Provincial Superioress of the Loreto nuns in India. 8 other Teachers. [1923.]

CALCUTTA, *Medical College of Bengal.* M.B. Principal, and Prof. of *Medicine*—Lt.-Col. F. A. F. Barnardo, C.I.E., C.B.E., M.D., F.R.C.S.E., I.M.S. Other Profs.: *Anat.*—N. Pan, M.B. *Anat. and Physiol.*—Major J. A. Shorten, I.M.S. *Bot. and Zool.*—Asst. Surg. E. N. Ghosh. *Chem.*—Lt.-Col. J. C. Boyd, I.M.S. *Dentistry*—J. E. Gill, L.D.S. *Hygiene*—C. A. Bentley, M.B., D.P.H. *Mat. Med. and Clin. Med.*—Lt.-Col. D. McCay, M.D., M.R.C.P., I.M.S. *Med. Jurispr.*—Major N. P. Sinha, I.M.S. (ret.). *Midw.*—Lt.-Col. Leicester, I.M.S. *Ophth. Med. and Surg.*—Lt.-Col. W. V. Coppinger, M.D., F.R.C.S., I.M.S. *Path.*—Capt. G. Shanks, M.D., I.M.S. *Physics*—Tulsidas Kar, M.A. *Surgery, Principles of*—Lt.-Col. F. P. Cannor, D.S.O., F.R.C.S., I.M.S.; *Surgery, Clin. and Operative*—Lt.-Col. R. P. Wilson, F.R.C.S., I.M.S. 29 other Teachers. [1923.]

CALCUTTA, *Narsinha Dutt College*, Howrah. I.A. and I.Sc. Principal, and Prof. of English—M. Chatterjee, M.A. 8 other Profs.

CALCUTTA, *Presidency College.* B.A. and B.Sc. Maintained by Govt. Number of undergrads. limited to 650. Principal—H. E. Stapleton, M.A., B.Sc. Other Profs.: *English Literature*—B. G. Mukerjee, M.A.; T. S. Sterling, M.A.; Praphullachandra Ghosh, M.A.; Srikumar Banerjee, M.A.; M. G. Bhattacharjee, M.A.; P. C. Dustoor, M.A. *Geology*—H. Walker. *Ment. and Mor. Philos. and Logic*—P. D. Shastri, M.A., Ph.D., B.Sc.; Khagendranath Mitra, M.A.; S. N. Das Gupta, Ph.D.; R. K. Datta, M.A. *Hist.*—K. Zachariah, B.A.; Binaykumar Sen, M.A.; U. N. Ghoshal, M.A. *Pol. Econ. and Pol. Philos.*—J. C. Coyajee, B.A., LL.B.; Panchanandas Mukherjee, M.A.; D. G. Chattoraj, M.A. *Sansk., Pali, and Bengali*—Nilmani Chakrabarti, M.A.; Harihar Banerjee, M.A.; S. N. Bhadmi, M.A. *Arabic and Pers.*—Md. Sonaullah, M.A.; M. Haque, M.A.; Hedayat Hossain. *Maths. and*

Astron.—B. M. Sen, Sc.D.; Saradaprasanna Das, M.A.; K. N. Chakravarty, M.Sc.; S. N. Datta; H. C. Sengupta, M.A. *Phys.*—P. C. Mahalanabis, B.A., B.Sc. *Chem.*—Jyotibhushan Bhaduri, M.A., F.C.S.; R. N. Sen, M.Sc. *Physiol.*—S. C. Mahalanabis, B.Sc.; N. C. Bhattacharyya, M.A., B.Sc. *Botany*—S. C. Banerjee, M.A.; S. C. Sinha, M.A. 25 Assts. and Demrs.

CALCUTTA, *Ripon College.* B.A., B.Sc., B.L.

College Department. Principal, and Prof. of Engl.—N. Raye, M.A. Vice-Principal, and Prof. of Engl.—R. N. Ghose, M.A. 35 other Teachers.

Law Dept. Principal—S. C. Chaudhuri, M.A., LL.B. Camb., Barr.-at-Law. Prof.—J. N. Kanjilal, M.A., D.L. 9 other Teachers.

CALCUTTA, *St. Joseph's College.* I.A. and I.Sc. Principal, and Prof. of *English and History*—Rev. Brother J. L Maher. 5 other Profs.

CALCUTTA, *St. Paul's Cathedral Mission College* (formerly "The Church Missionary Society's College"). B.A. Number of students limited to 250. Acting Principal, and Prof. of *Lit.*—E. C. Dewick, M.A. Camb. Acting Vice-Principal, and Prof. of *Engl.*—H. M. Grindon, M.A. Camb. and Lond. 15 other Teachers. [1923.]

CALCUTTA, *St. Xavier's College* (S.J.). B.A., B.Sc. Students of other religious persuasions are admitted. Rector—J. Fallon, S.J. 31 Teachers. [1923.]

CALCUTTA, *Sanskrit College.* B.A. Principal, and Prof. of *Philos. and Logic*—A. N. Mukerjee, Ph.D. 18 other Teachers.

CALCUTTA, *Scottish Churches' College.* B.A. and B.Sc. Formerly the General Assembly's Institn. and Duff Coll. Principal—J. Watt, M.A., D.D., F.C.S. Other Profs.: *Engl.*—J. C. Scrimgeour, M.A., D.D.; A. Cameron, M.A.; J. D. Sinclair, M.A., B.D.; J. F. Macdonald, M.A.; S. C. Dutt, M.A. *Philos. and Logic*—W. S. Urquhart, M.A., D.Litt.; G. Ewan, M.A., Ph.D.; P. C. Sen, M.A.; S. P. Biswas, M.A. *Econ.*—J. Kellas, M.A.; N. C. Bhattacharyya, M.A. *Maths.*—M. S. Sarkar, M.A.; A. C. Ganguli, M.Sc.; B. B. Mandal, M.Sc.; G. Bhor, M.A. *Sansk.*—B. L. Banerjee, M.A.; K. P. Mookerjee; N. L. Vidyabinod. *Physics*—N. C. Ray, M.A.; R. K. De, M.A., B.Sc. *Chem.*—B. C. Dutt, M.A., F.C.S.; R. N. Chatterjee, M.A. *History*—M. L. Sarkar, M.A.; A. C. Sen, M.A. 10 other Lectrs.

CALCUTTA, *Univ. Law College*, v. *supra.*

CALCUTTA, *Vidyasagar College* (formerly Metropolitan Institn.). B.A. and B.Sc. Principal, and Prof. of *Sanskrit*—Saradaranjan Ray, M.A., V.S.V. Vice-Principal, and Prof. of *Engl. Lit.* and *Philos.*—J. R. Banerjea, M.A., B.L. 41 other Teachers.

CHITTAGONG, *College* (Govt.). B.A. and B.Sc. Principal—Shams-ul-'Ulama Md. Kamál-ud-Din Ahmad, M.A., acting. 24 other Teachers.

COMILLA, *Victoria College.* B.A. Principal, and Prof. of *Engl. Lit.*—Satyendranath Basu, M.A. 12 other Teachers. [1923.]

COOCH-BEHAR, *Victoria College.* B.A. and B.Sc. Principal, and Prof. of *Physics*—M. Dey, M.A. 16 other Teachers.

DAULATPUR, *Hindu Academy.* B.A. Principal—Dwijapada Banerjee, M.A. Vice-Principal—B. B. Bhattacharyya, M.A. 21 other Teachers. [1923.]

FARIDPUR, *Rajendra College.* B.A. Principal—K. N. Mitra, M.A. 17 other Teachers.

CORRIGENDUM

P. 525, SIBPUR: cancel this entry. *See* p. 523, CALCUTTA, *Engineering College.*

FENI COLLEGE. B.A. Principal, and Prof. of *History*—A. C. Rakshit, M.A. 11 other Profs.

GAUHATI, *Cotton College* (Govt.). M.A. in English (partially); B.A. and B.Sc. Principal—F. W. Sudmersen, B.A. Lond. Profs. of *Engl.*: R. C. Goffin, M.A. Lond.; Praphullachandra Ray, M.A.; Asutosh Chatterjee, M.A.; S. K. Bhuyan, M.A., B.Sc.; B. K. Kakati, M.A. Prof. of *Physics*—D. E. Roberts, M.A. *Chem.*—C. L. De, M.A. *Maths.*—R. K. Barat, M.A. *Philos.*—R. R. Thomas, M.A. *Sansk.*—L. N. Chatterjee, M.A., V.S. *Arabic and Persian*—S. Md. Mahibullah. *Economics*—A. E. Brown, M.A., LL.B., Barr.-at-Law. 12 other Teachers.

GAUHATI, *Earle Law College* (Govt.). Principal—J. Borooah, Barr.-at-Law. Profs.: T. N. Phukun, B.L.; Satyanath Bara, B.L.; S. C. Chakravarti, M.A., B.L.

HETAMPUR, *K.C. College*. B.A. Principal—D. D. Dutt, M.A., M.R.A.S.

HUGHLI COLLEGE. B.A. and B.Sc. Maintained by Govt. Principal, and Prof. of *Hist.*—R. B. Ramsbotham, M.B.E., M.A., B.Litt. Ox., I.E.S. 18 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—Egerton Smith, M.A. 20 other Teachers. [1923.]

MIDNAPORE, *Midnapore College*. B.Sc. Principal—H. C. Sanyal, M.A., B.L. 11 Teachers. [1923.]

MYMENSINGH, *Anandamohan College*. B.A. Principal—Jajneswar Ghosh, M.A., Ph.D. 22 Teachers. [1923.]

RAJSHAHI, *Government College*. B.A. and B.Sc. Principal, and Prof. of *Phys.*—Rai Kumudinikanta Banerjee, Bahadur, M.A. 34 other Teachers.

RANGPUR, *Carmichael College*. B.A. Principal, and Prof. of *Engl.*—N. Mookerjee, M.A. 14 other Teachers. [1923.]

SERAMPORE COLLEGE (chartered in 1818 by the King of Denmark. Grants a B.D. degree which is accepted as equivalent to Calcutta B.A. as qualifying for post-graduate courses in most subjects. Bishops' College, Calcutta, is affiliated to it). B.A. Principal, and Prof. of *Engl. and Hist.*—G. Howells, M.A., B.D., B.Litt., Ph.D. Vice-Principal, and Prof. of *Philos.*—J. Drake, B.A., B.D. 21 other Teachers. [1923.]

SHILLONG, *St. Edmund College*. I.A. and I.Sc. Principal, and Prof. of *English*—Rev. Brother J. E. McCann. 5 other Profs.

SIBPUR, *Bengal Engineering College* (Govt.). B.E. Principal—..... Profs.: *Civil Engin.*—T. H. Richardson, B.A., B.A.I. Dub., M.I.C.E. Irel. *Elec. Engin.*—W. H. Everett, B.A., B.E., R.U.I., M.I.M.E., M.I.E.E. (on deputation); B. C. Gupta, offg. *Mech. Engin.*—R. Wolfenden, M.B.E., M.Sc. *Mining*—E. H. Roberton, B.A., M.Sc. Birm., M.I.E.E., F.G.S. *Phys. and Maths.*—A. Macdonald, M.A., B.Sc. Glas.; S. N. Maitra, B.A. Camb., A.R.C.S. Lond. (acting). *Chem.*—W. Saunders, B.Sc. Lond. 26 other Teachers.

SYLHET, *Murarichand College* (Govt.). B.A. Principal—D. Thomson, M.A., B.Sc., Ph.D. 20 Teachers.

THE YEAR 1923–24

BENEFACTIONS. Sir Asutosh Mookerjee, Rs. 40,000, 3½ p.c. Govt. paper for institution of Kamala lectureship (Indian Life and Thought, Mrs. Annie Besant was appointed first lecturer); Sir B. K. Bose, Rs. 10,000, 6 p.c. War

Bonds for a post-graduation scholarship ; several other small endowments of scholarships and medals.

NEW BUILDING. Large building, to cost Rs. 5,10,000, begun (paid for by Govt. of Bengal).

NEW DEPARTMENTS, ETC. Linguistics added to list of subjects for B.A. examn. and a professor appointed in charge of dept. Arrangements made for studies in Proto-zoology and for higher education in Agriculture in College of Science. A scheme for physical education was under consideration.

RECOGNITION OF DEGREES of Univ. of Lucknow. B.A. (provided that students who passed without having taken English as a principal pass subject are required to pass Calcutta B.A. in English), B.Sc., and Law and Medical degrees accepted as equivalent to those of Calcutta.

RESIGNATIONS. C. E. Cullis (Emeritus Prof., Maths.) ; M. N. Saha ; A. Brown.

UNIVERSITY EXTENSION WORK. Several public lectures by Univ. Professors.

TRAVELLING FELLOWSHIPS were held in France (Chinese), in Europe and America (Botany), and in U.S.A. and Canada (Physics). Study leave for 2 yrs. granted for work at Cambridge and Rothamsted.

A CONFERENCE of Medical Research workers was held in Calcutta in Oct. 1923.

STUDENTS. Total number at the various examns. in 1923 : 35,768.

DEGREES CONFERRED in 1923–24 : B.A., 1976 (including 78 women) ; M.A., 332 ; B.Sc., 480 ; M.Sc., 60 ; D.Sc., 3 ; B.L., 680 ; M.B., 207 ; B.E., 12 ; B.T., 43 (13 women) ; Ph.D., 5 ; D.L., 2.

UNIVERSITY OF DACCA (BENGAL)

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.
CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.
VICE-CHANCELLOR—P. J. HARTOG, C.I.E., M.A., B.Sc.
REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M.A.

TEACHING STAFF, September 11, 1924

Arabic and Islamic Studies

..... Prof.
Wahhab, A. A., M.A., B.L. Reader.
Israeli, Saadat Ulla Lectr.
Ali, Munawar Lectr.
Ahmad, Marghoob, M.A., M.O.L. Panj. Lectr.
2 Assts.

Chemistry

Ghosh, J C.. D.Sc. Calc. Prof.
Sircar, A. C., M.A., Ph.D. Calc. Reader.
Niyogi, M. N., M.Sc. (Analytical C.) Reader.
De, R. L., M.Sc. Calc. Lectr.
Guha, P. C., D.Sc. Calc. Lectr.
1 Tempy. Lectr. and 7 Assts.

Commerce

Junnarkar, P. B., M.A., LL.B. (Accountancy and Business Organization) Reader.
Hussain, A., M.A. Calc. Lectr.
1 Asst.

Economics and Politics

Sinha, J. C., M.A. Calc. Reader.
Aiyyer, S. V., M.A. Mad. Lectr.
Banerjee, D. N., M.A. Calc. Lectr.
Saha, K. B., M.A. Calc. Lectr.
Dam, M. L., M.A. Calc. Lectr.
2 Assts.

Education

West, M. P., B.A. Ox. Hon. Reader and Head of Dept.
4 Hon. Teachers.

English

Wrenn, C. L., M.A. Ox. Reader & Head of Dept.
De, S. K., M.A., B.L., D.Litt. Lond. Reader.
Guha, P. K., M.A., B.L. Calc. Lectr.
Nag, U. C., M.A. Calc. Lectr.
Roy, B. K., M.A., B.L. Calc. Lectr.
Chanda, S. M., M.A. Calc. Lectr.
Hussain, A., M.A. Lectr.
1 Asst.

History

Majumdar, R. C., M.A., Ph.D. Prof.
Rahman, A. F., B.A. Ox. Reader.
Banerjee, S. C., M.A. Calc. Lectr.
Bhattacharyya, S. N., M.A. Calc. Lectr.
Mukherjee, P. C., M.A. Calc. Lectr.
2 Assts.

Law [Prof.
Sen-Gupta, N. C., M.A., D.L. Calc.
Das-Gupta, J. N., M.A., M.L. Calc. Lectr.
Datta-Gupta, A. K., M.A., B.L. Calc. Lectr.
5 Part-time Lectrs. and an Asst.

Mathematics

..... Prof.
Basu, N. M., D.Sc. Calc. Reader (Acting Head of Dept.).
Datta, H. N., M.Sc. Calc. Reader.
Ganguly, D. N., M.A. Calc. Lectr.

Ghosh, J., M.A. Calc. Lectr.
Sircar, H., M.Sc. Calc. Lectr.
1 Asst.

Persian and Urdu

Khan, F. A., M.A. Calc. Reader.
Azad, S. M. Z. H., B.A. Lectr.
Ahmad, M., B.A. Calc. Lectr.
1 Asst.

Philosophy

Langley, G. H., M.A. Lond. Prof.
Bhattacharyya, H. D., M.A. Calc. Reader.
Bhattacharyya, U. C., M.A. Calc. Lectr.
Gupta, U. N., M.A. Calc. Lectr.
Ahmad, K., M.A. Calc. Lectr.
2 Assts.

Physics

Jenkins, W. A., M.Sc. Sheff. Prof.
Bose, S. N., M.Sc. Calc. Reader.
Ghosh, S. N., M.A. Calc. Reader.
Guha, B. C., M.Sc. Calc. Lectr.
7 Asst. Lectrs.

Sanskrit and Bengali

..... Prof.
Chakravarti, S. C., B.A. Calc. Reader.
Basak, R. G., M.A. Calc. Lectr.
Bhattacharyya, G. P., M.A. Calc. Lectr.
Shahidullah, M., M.A. Calc. Lectr.
Banerjee, C. C., B.A. Lectr.
1 Asst.

ASSOCIATED INSTITUTIONS. The Dacca (Govt.) Training College. The Principal and teachers are honorary teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

GENERAL INFORMATION (v. also p. 500)

This Univ. was established in 1921 under an Act passed in 1920 which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. It is constituted in its main lines in accordance with the recommendations of a Committee presided over by Mr. (now Sir Robert) Nathan in 1912 and by the Calcutta Univ. Commission of 1917–19, presided over by Sir Michael Sadler. The Report of this Commission states that " two main factors may be clearly distinguished in the origination of the Scheme : first and foremost the desire of the Musalmans of Eastern Bengal to stimulate the educational progress of their community, and, secondly, the desire of the Govt. of India to create a new type of residential and teaching Univ. in India, as opposed to the present affiliating type. To these must be added a third factor of especial importance, the desire of the Govt. to relieve the congestion of the Univ. of Calcutta." * Although special attention will be devoted to Islamic Studies and to the needs of the Musalman community, the Univ. will be open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., of which the constitution resembles in many respects that of the modern English universities. The Authorities of the Univ. include a Court, an Executive Council, an Academic Council, and Faculties ; and the Teaching Staff has the main responsibility for all matters connected with teaching and examns. The students (other than those living under specially approved conditions) reside in the Halls and Hostels situated in the Univ. domain, and the Univ. teachers also reside in the houses erected for them thereon. The domain consists of about a square mile of fine park land, including over 100 acres of playing fields. It is adjacent to the Civil

* Chapter xxxiii. of the *Report* deals in great detail with the scheme for the Dacca Univ.

Station of Dacca and to a park called the Ramna, and lies from 1 to 1½ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief existing buildings for teaching and administrative purposes include: A Court House with residential block; central buildings, containing about 200 rooms, which cover 117,000 feet of floor space used for Class-rooms and Library (at present utilized partly as a hostel for Muslim students); Chemical and Physical Laboratories, each including about 12,000 sq. feet of floor space; the Curzon Hall (which accommodates about 2000 persons); the Dacca Hall buildings, with residential accommodation for 160 students; the Jagannath Hall buildings, providing for 200 students.

LIBRARY, 35,000 vols. LABORATORIES: Physical, with metal and wood workshops; Chemical, with special arrangements for training in commercial analytic methods.

FACULTIES. Arts, Science, Law.

ADMISSION. The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

DEGREES, ETC. The duration of the courses of studies prescribed are as follows: for B.A. or B.Sc. ordinary, 2 yrs., with Honours, 3 yrs.; M.A. or M.Sc., 2 yrs., or in the case of a Dacca Honours B.A. or B.Sc., 1 yr.; B.T. or L.T., 1 yr.; M.T., 3 yrs.; B.Com., 2 yrs.; B.L., 3 yrs. (Dacca Honours B.A., 2 yrs.); M.L., 3 yrs. The Ph.D., D.Sc., or D.L. may be taken by graduates of 4 yrs.' standing, but graduates of other Univs. must first pursue researches in this Univ. for 2 yrs.; published research work required.

SCHOLARSHIPS open to graduates: 3 of Rs. 40 each p.m., 15 of Rs. 32, 1 of Rs. 30 (for backward classes only), 2 of Rs. 25 (Mühammadans only). Research studentships: 2 of Rs. 100 p.m. and 4 of Rs. 75.

FEES. Tuition, per session; for B.A., B.Sc., or B.L. course, Rs. 96; M.A., Rs. 120; M.Sc., Rs. 144; Registration, Re. 1; Admission, Rs. 5; Athletic, Rs. 5; Students' Union, Rs. 3; Research students, Rs. 10. HOSTELS: Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine and servants. Cost of food about Rs. 12 p.m.

TUTORIAL CLASSES have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged on the work under the control of the Heads of the Depts. and the Provosts.

THE YEAR 1923–24

NUMBER OF STUDENTS. B.A., 344; B.Sc., 215; B.Com., 68; M.A., 148; M.Sc., 37; Law, 339; B.T., 49; L.T., 12; Research, 19; students of Dacca Medical School who read Physics and Chemistry in the Univ., 121; total (excluding double entries), 1311.

BENEFACTIONS. Nawab Ali Stipend Fund (Rs. 16,000); and several small donations for prizes and scholarships.

UNIVERSITY OF DELHI

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—Hon. KHAN BAHADUR MIAN SIR MUHAMMAD SHAFI, D.Litt., LL.D., K.C.S.I., C.I.E., Bar.-at-Law.

VICE-CHANCELLOR—Sir HARI SING GOUR, M.A., D.Litt., D.C.L., LL.D. Bar.-at-Law.

RECTOR—Rev. Canon F. J. WESTERN, M.A.

TREASURER—K. C. ROY, C.I.E.

REGISTRAR—G. M. D. SUFI, M.A.

CONSTITUENT COLLEGES. St. Stephen's; Hindu; Ramjas.

TEACHING STAFF, November 1923. [Return for 1924 not received.]

(U.) denotes University Reader; (S.), (H.), (R.) denote St. Stephen's, Hindu, Ramjas Colleges respectively.

Arabic [(S.) (U.).
Abdur-Rahman, Munshi Fazil, Maulvi Fazil (A. and History)

Biology [(U') (R.).
Ahluwalia, Gopalji., M.Sc.
Balkishan Das, M.Sc. (H.).

Chemistry
Bain, Miss A. M., M.A., B.Sc. Aberd. (U.) (H.).
Mitra, J. N., M.Sc. (S.).
Sant Ram, M.Sc. (C. and Physics) (R.).
Seth, R. B., M.Sc. (U.) (H.).

Civics
Williams, Rushbrook, M.A., D.Litt. Hon. Prof.

Economics
De, K. C., M.A. (Ec., Engl., and Philos.) (U.) (R.).
Hirde Narain, M.A. (Ec. and Philos.) (H.)
Nag, K. C., M.A. (U.) (S.).

English and History, v. also Arabic, Ec.
Bali, H. C., M.A. (Engl.) (H.).
Capron, R. S., B.A. Camb. (S.).
Chakravarti, M. K., M.A. (Engl.) (R.).
Das-Gupta, A., M.A. (Engl.) (H.).
Keswani, L. D., M.A. (Engl.) (R.).
Monk, F. F., M.A. Ox. (S.).
Sen, S. K., B.A. Ox. (H.).
Shahani, M. S., M.A. Ox. (H.).
Sharp, C. H. C., M.A. Ox. (S.).
Thadani, N. V., M.A. (Engl.) (U.) (H.).
Young, C. B., M.A. Ox. (Engl. and Philos.) (U.) (S.).
Qanungo, K. R., M.A. (Hist.) (U.) (R.).
Rai, G., M.A. (Hist.) (H.).
Young, P. N. F., M.A. Camb. (U.) (S.).

Mathematics
Bannerji, A. T., M.A. (U.) (H.).
Jain Permanand, M.A. (S.).
Mukerji, S. K., M.A. Panj., B.A. Camb. (U.) (S.).
Ram Behari, M.A. (S.).
Sitaram, M.A. (R.).
Sri Ram, M.A. (H.).

Persian
Ali, Syed Azhar, M.A., M.O.L., Munshi F. (S.).

Piyare Lal, Munshi F. (R.).
Verma, A. N., M.A. (U.) (H.).

Philosophy, v. also Ec., Hist.

Mitra, C. C., M.A., B.L. (H.).
Sen, N. K., M.A. (U.) (S.).

Physics, v. also Chem.

Chabra, B. D., M.Sc. (H.).
Khub Ram, M.A. Panj., M.Sc. Leeds (U.) (S.).
Sant Ram, M.Sc. (R.).
1 Demr.

Sanskrit

Har Narain, Shas., Mahamahopadya (U.) (H.).
Lachhmi-Dhar, M.A., M.O.L., Shas. (U.) (S.).
Krishna-Lal, M.A. (R.).

GENERAL INFORMATION (v. also p. 500)

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. The authorities of the Univ. are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn. Examn. As a temporary measure, it admits students who have passed the matricn. examns. of other Indian Univs., but will after 5 years admit only those who have passed the Intermediate (Arts or Science) examn.

DEGREES. B.A., B.Sc., M.A., M.Sc., Ph.D., D.Litt., LL.D.

AVERAGE HOSTEL EXPENSES, Rs. 20 p.m.

THE YEAR 1923–24. Readerships were instituted in Physics, in Chemistry, and (endowed by G. D. Birla with Rs. 6000 p.a. for 3 years) in Economics. The Maharaja of Datia offered to institute a Readership in Indian History. Steps were taken towards establishing a Faculty of Law. The formation of a Univ. Training Corps was sanctioned. Number of students—850.

UNIVERSITY OF LUCKNOW

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR—G. N. CHAKRAVARTI, RAI BAHADUR, I.S.O., M.A., D.Sc., LL.B.

TREASURER—Prof. SAHEBZADA SAID-UZ-ZAFAR KHAN, M.B., Ch.B., D.T.M.

REGISTRAR—MAJOR T. F. O'DONNELL, B.A.

COLLEGES AND DEPARTMENTS

KING GEORGE'S MEDICAL COLLEGE. Principal—Prof. Sahebzada Said-uz-Zafar Khan, M.B., Ch.B. Edin., D.T.M. Liverpool (acting). Maintained by the Univ.

CANNING COLLEGE (Arts and Science). Principal, M. B. Cameron, M.A. Glas., B.Sc. Lond. Maintained by the Univ.

ISABELLA THOBURN COLLEGE (Women's). Principal, Florence L. Nichols, M.A. Boston.

DEPARTMENT OF COMMERCE. Head of Dept., B. N. Das Gupta, B.A.

LAW DEPARTMENT. Head of Dept., Pt. J. N. Chak, B.A. Ox., Barr.-at-Law.

PROFESSORS, LECTURERS, ETC., November 6, 1924

KING GEORGE'S MEDICAL COLLEGE

Anatomy

Said-uz-Zafar Khan, Sahebzada, M.B., Ch.B. Edin., D.T.M. Liv. Prof.

Goil, Capt. J. N., M.B., B.S. All. Lectr.

2 Demrs.

Materia Medica & Med. Jurispr.

Vyas, B. N., R.B., M.B. Panj. Reader.

Modi, J. P., L.R.C.P. & S. Edin., L.F.P. & S. Glas. Reader.

1 Demr.

Medicine

The Principal (on leave) Prof.

Burke, Major G. T., M.D., B.S., M.R.C.P. Lond., M.R.C.S. Eng., I.M.S. Acting.

Sahai, H., M.B., B.S. Panj. Lectr.

Obstetrics and Gynæcology

Hunter, Lt.-Col. T., M.A., B.Sc., M.D. Glas., I.M.S. Prof.

Siret, Miss A., M.B. Calc. Resident Surgeon Demr.

Ophthalmology

Acharya, B. G. S., B.A., M.B., C.M. Madras, L.R.C.P. Lond., F.R.C.S. Edin., M.R.C.S. Eng., D.O. Ox. Prof.

Misra, C. P., L.M.S. Panj. Lectr.

Pathology

Stott, Major H., O.B.E., M.D., B.S., M.R.C.P., D.P.H. Lond., I.M.S. Prof.

Mukerji, Capt. J. G., L.M.S. Panj. Reader.

Abdul-Hamid, Mohd., M.B., B.S. All. Lectr.

1 Demr.

Physiology

Burridge, W., M.A., D.M., B.Ch. Ox., L.M.S.S.A. Lond. Prof.
Mathur, S. N., M.B., B.S. All. Lectr.
1 Demr.

Public Health

Pandya, D. D., R.B., L.R.C.P. & S. Edin., L.F.P. & S. Glas., D.P.H. Camb. Prof.
Gupta, M. C. Lectr. (Sany. Engineering).

Radiology [Reader.

Lal, Ragunandan, M.B., B.S. Panj.

Surgery

Nutt, Lt.-Col. H. R., M.D. Lond., F.R.C.S. Eng., I.M.S. Prof.
Nigam, K. S., M.D. All., F.R.C.S Eng., D.T.M. Lond. Lectr. and Regr.
Pramanick, R. D., B.Sc., M.B., B.S. Lectr. Anæsthetist.

Canning College (Arts and Science)

Arabic

..... Reader.
Khalil, Mohd. Ben Arab Lectr.

Botany

Sahni, Birbal, M.A. Camb., D.Sc. Lond. Prof.
Chaudhury, H. P., M.Sc. Panj. (on leave) Lectr.
Mukerji, S. K., M.Sc. All. Lectr.
1 Tempy. Lectr.
1 Demr.

Chemistry

MacMahon, P. S., M.Sc. Manc., B.Sc. Ox. Prof.
Gupta, B. M., M.Sc. All., Ph.D. Lond., A.I.C., D.I.C. Reader.
Sane, S. M., B.A., B.Sc. All., M.A., Ph.D. Berlin, F.C.S. Reader.
Raman Nayar, M., B.A. Madras, A.I.I.Sc. (Bang.) Lectr.
2 Demrs.

Economics

Mukerji, R. Kamal, M.A., Ph.D. Calc. Prof.
Mukerji, B. B., M.A., B.L. Calc. Reader.
Dey, H. L., M.A. Calc. Lectr.
Mukerji, D. P., M.A. Calc. Lectr.

English [Prof.

Brown, C. J., M.A. Ox. (on leave)
Thorn, Lucius C. F. K., M.A. Camb. Acting.
Sidhanta, N. K., B.A. Camb., M.A. Calc. Reader.
Nixon, R. H., B.A. Camb. Reader.
Roy, F. T., M.A. All. Lectr.
Pinto, F. F. T., B.A., LL.B. Camb. Lectr.
Roy, C. G., M.A. All. Jr. Lectr.
Bhattacharya, A. J., M.A. ,,
Amir-Ali, Syed, M.A., B.L. Calc. Jr. Lectr.

History [Prof. (European H.)

Smith, S. B., M.A. Ox.
Mukherji, R. Kumud, M.A., Ph.D Calc. Prof. (Indian H.)
Banerji, S., M.A., L.T. All. Lectr.
Dey, J. C., M.A. Lond. Lectr.
Chatterji, C. D., M.A. Calc. Lectr.
Qanungo, K. R., M.A. Lectr.

Mathematics

Strang, J. A., M.A., B.Sc. Edin. (on leave) Prof.
Narayan, Lakshmi, M.A. All. Acting Prof.
Charan, S., M.A. Lond., M.Sc. Reader
Banerji, S., M.A. Calc. Lectr.

Modern European Languages

Keightley, B., M.A. Camb., Barr.-at-Law Hon. Reader.

Persian

Rahman, M.B., M.A. Panj., Ph.D. Camb. Reader.
Nurul-Aziz, Moulvi Md., M.A. All. Lectr.
Abdul Qavi Fani, Md., M.A. All. Lectr.

Fiqar, B. N., Munshi Lectr.
Rizvi, M. H. Syed, B.A. All. Jr. Lectr. (Urdu).

Philosophy

Cameron, M. B., M.A. Glas., B.Sc. Lond. Prof.
Cornelius, J. J., B.A. Ohio, M.A. Harv., S.T.B. Bost. (on leave). Reader.
Ahmad-Shah, E., M.A. All., B.Litt. Ox. Reader.
1 Tempy. Lectr.

Physics

Wali Mohammed, M.A. Panj., Ph.D. Gott., I.E.S. Prof.
Deodhar, D. B., M.Sc. All. Reader.
Ray, S. N., B.A., M.Sc. All. Lectr.
Banerji, B. B., M.Sc. All. Lectr.
1 Demr.

Political Science

Ram, V. S., B.A. California, M.A., Ph.D. Harv. Reader.
Gupta, R. S., B.A. Ox. Lectr.

Sanskrit

Iyer, K. A. Subramanya, M.A. Lond. Reader.
Shastri, B. N., Pt. M.A. All. Lectr.
Thakur, A. D., Pt. M.A. All. Lectr.
Bhatt, B. N., Pt. B.A. All. Jr. Lectr.

Zoology

Bahl, K. N., M.Sc., D.Sc. Panj., D.Phil. Ox. Prof.
Thapar, Sardar Govind Singh, M.Sc. Panj. (on leave) Lectr.
Inayat Ali Khan, M.Sc. Acting.
Bhatia, M. L., M.Sc. Lectr.
1 Demr.

Isabella Thoburn College (Women's)

Economics

Reddick, Miss O. I., M.A. Columbia Reader.

English

Dimmitt, Miss M. A., B.A., De Pauw. Reader.

European History

Manchester, Miss R. C., M.A. Bryn Mawr Reader.

Persian

Baij-Nath-Fiqar, Munshi Lectr.

Philosophy

Eno, Miss Enola, Ph.D. Chicago Reader.

Sanskrit

Srivastava, R. Lectr.

Department of Commerce

Das Gupta, B. N., B.A. Reader.
Chatterji, B. N., M.A., B.L. Calc. Reader.
Dubey, D. S., M.A., LL.B. All. Lectr.
Pant, D., B.Com. Bom., F.S.S. Lectr.

Law Department

Readers (Part-time):

Chak, Pt. J. N., B.A. Ox., Barr.-at-Law
Husain, Hyder, B.A. Ox., LL.B., Dub., Barr.-at-Law.
Misra, J. N., B.A., LL.B. Camb., M.A., LL.D. Dub., Barr.-at-Law.
Banerji, J. K., M.A., LL.B. All.
Hajela, K. S., M.Sc., LL.B. All., LL.M. Bom.
Hasan, Ghulam, B.A. Panj., LL.B. All.

ORIENTAL DEPARTMENT

Maulvi Syed Ali Ashgar; Maulvi Mustafa Hasan; Pandit Ram Krishna Shastri.

GENERAL INFORMATION (v. also p. 500)

This residential and teaching Univ. was established under an Act of the Provincial Legislature passed in Nov. 1920. The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

FACULTIES. Arts, Science, Commerce, Medicine, Law.

ADMISSION. Qualifications for Degree courses: Arts or Science—the Intermediate Examn. of an Indian Univ.; Law—Degree in Arts or Science; Commerce—Commerce Diploma Certif. of Allahabad or of the Panjab; Med. —Degree in Science of Alld., Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Panj., Patna, or Rangoon taken with Chem. and Biol. as optional subjects, or, subject to certain conditions, the Inter. or P.Sc. Examn. of All., Alig., Benares, or Interm. Board of Ed., U.P.

DEGREE COURSES for B.A., B.Sc., B.Com, 2 yrs.; M.A., M.Sc., 2 yrs.; LL.B., 2 yrs.; M.B., B.S., 5 yrs. The lectures are supplemented by tutorial work, each student being assigned to a tutor who gives him personal attention and guidance in his course of study.

FEES for tuition for full course: B.A., Pass, or B.Com., Rs. 216; B.A. Hons., Rs. 324; M.A., Rs. 270; M.B., B.S., Rs. 544; B.Sc. Pass, Rs. 252, Hons., Rs. 378; M.Sc., Rs. 300; LL.B., Rs. 240.

SCHOLARSHIPS for Graduates. The Univ. provides 6 of the value of Rs. 30 each and one of Rs. 50 p.m.; Canning College, one of Rs. 100 and three of Rs. 30.

RESIDENCE. Students are required, unless specially exempted, to live in hostels.

ADULT EDUCATION. A system of public lectures by members of the staff and others has been started.

THE YEAR 1924

BENEFACTIONS. Prince of Wales' Memorial Fund, Rs. 20,000 and Govt. securities of face value Rs. 1,43,000 for the Medical College; Nawab of Rampur, Rs. 1500 for gold medal for Medical student.

NEW BUILDINGS. New hostel, extension of hostel, quarters for 7 members of staff, museum and biological laboratory, extension of anatomy block, armoury for U.T.C.; aggregate cost, Rs. 2,00,000.

CHANGES IN REGULATIONS related to pre-medical test for admission to Med. College, admission of teachers to examns. for higher degrees, admission test for B.Com. course, vernacular tests for students in Arts.

RECOGNITION OF STUDIES ELSEWHERE. Courses in Physics, Chem., and Biology for Interm. Examn. of the following were recognized for admission to pre-medical test: Allahabad, Aligarh, and Benares Univs., and Board of High School and Interm. Examn., United Provinces.

NEW POST-GRADUATION SCHOLARSHIPS. 2 (Govt.), Rs. 100 p.m. for research in Econ. and Zool.; 1 (Univ.), Rs. 50 p.m. in Maths.

STUDY LEAVE SYSTEM. 3 members of teaching staff were granted leave for study in England, and 1 for lecturing and gaining experience in the United Kingdom.

NEW POST. Reader in Radiology.

RESIGNATIONS. Miss W. E. Eustis, E. M. Moffat. Leave preparatory to retirement granted to H. S. Walker, Miss L. M. Rockwell.

A UNIVERSITY TRAINING CORPS was formed.

DEGREES CONFERRED. M.A., 23 · B.A., 71 (including 9 women); M.Sc., 7; B.Sc., 21; M.B., B.S., 30; LL.B., 27; B.Com., 9.

NUMBER OF STUDENTS (1924) in Arts, 299; Science, 130; Med., 211; Law, 251; Comm., 52.

UNIVERSITY OF MADRAS

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF MADRAS.

VICE-CHANCELLOR—The Rev. E. MONTEITH MACPHAIL, C.I.E., C.B.E., M.A., D.D.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

REGISTRAR—WILLIAM MCLEAN, M.A., B.L.

UNIVERSITY PROFESSORS, October 30, 1924

Indian History and Archæology

Rao Sahib S. Krishnaswami Aiyangar, M.A., Ph.D. (Calc.).

Indian Economics

John Matthai, B.A., B.L., B.Litt., D.Sc. Prof.

T. K. Duraiswami Aiyar, M.A., L.T. Asst. Prof.

GENERAL INFORMATION (v. also p. 500)

This Univ., founded in 1857, has hitherto been mainly an examining body, but has, since 1912, maintained a small teaching staff and organized special lectures by persons eminent in Arts and Science in Europe and India, and in 1923 an Act was passed for reorganizing it as a Teaching and Residential Univ., while enabling it to continue to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, Boards of Studies, and a Council of Affiliated Colleges.

From the Govt. of Madras the Univ. receives an annual statutory grant of Rs. 85,000.

FACULTIES. Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture.

ADMISSION. The Matricn. examn. has been almost completely superseded by the School-Leaving Certif. scheme.

DEGREES, ETC. B.A., B.Sc., B.A. (Honours), B.Sc. (Honours), M.A., Ph.D., M.Sc., D.Sc.; B.Sc.Agr.; L.T.; B.L., M.L., LL.D.; M.B., B.S., L.M.S., B.San.Sc., M.D., M.S.; B.E.; M.O.L. (Oriental Learning).

DIPLOMAS. Titles in Oriental Learning (4 yrs.' course); Economics (full-time course—1 yr., part-time—3 yrs.). CERTIFICATES of Proficiency in Oriental Learning (2 yrs.').

RECOGNITION of examns. of other Univs. is not granted in general terms. The Syndicate deals with each application on its merits.

FEES for Univ. examns. range from Rs. 12 for matricn. to Rs. 100 for higher degrees.

RESIDENCE, ETC. Minimum cost of board and lodging for students living in European style, Rs. 50 p.m., for Indians, Rs. 30. A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

RESEARCH STUDENTSHIPS, tenable 3 or 4 yrs., value Rs. 100 to Rs. 200 p.m.

PUBLICATIONS. *Calendar* (Jan.)—vol. i., Administration, Statutes, Ordinances and Regns., Syllabuses; vol. ii., Constituent and Affld. Colls., Endowments, Graduates. *Annual Report. Minutes.*

AFFILIATED COLLEGES RECOGNIZED IN DEGREE COURSES

Arts and Science

ALWAYE, *Union Christian College.* Principal—A. M. Varki, M.A., B.L.

ANANTAPUR, *Ceded Districts College.* Principal—A. Arulanantham, B.A. Ox.

CHIDAMBARAM, *Sri Minakshi College.* Principal—K. A. Nilakantasastri, M.A.

HYDERABAD, *Nizam College.* Principal, and Prof. of *Ancient Hist.*—K. Burnett, M.A. Ox.

KUMBAKONAM COLLEGE (Govt.). Principal—P. V. Seshu Aiyar, B.A., L.T.

MADRAS, *Christian College.* Supported by the Church and U.F. Church of Scotland and 5 other Missionary Societies. Principal—W. Meston, M.A., B.D., absent on leave. Professors: *Chem.*—E. Barnes, B.Sc. *Engl. Lang. and Lit.*—F. W. Henderson, M.A.; G. Matthews, M.A., B.Litt.; W. L. Campbell, B.A.; J. R. Macphail, M.A.; W. Meston, M.A., B.D.; J. Muliyil, B.A. *Hist.*—F. E. Corley, M.A.; J. N. Anderson, M.A. *Maths.*—E. B. Ross, M.A. *Ment. and Mor. Sc.*—A. G. Hogg, M.A., D.Litt.; A. J. Mackenzie, M.A.; A. S. Woodburne, M.A., B.D., Ph.D. *Phys. Sc.*—A. Moffat, M.A., B.Sc., LL.D., acting Principal. *Nat. Sc.*—D. W. Devanesan, M.A., Ph.D. 29 other Teachers.

MADRAS, *Muhammadan College* (Govt.). For Muhammadans. Principal and Lectr. in *Engl.*—H. C. Papworth, M.A.

MADRAS, *Pachaiyappa's College.* For Hindus. Principal, and Prof. of *Hist.*—M. Ratnaswami, M.A., Barr.-at-Law. 34 other Teachers.

MADRAS, *Presidency College* (Govt.). Principal, and Prof. of *Engl.*—H. S. Duncan, M.A. Other Profs.: *Bot.*—M. O. Parthasarathi Ayyangar, M.A., L.T. *Chem.*—W. Erlam Smith, M.A. Ox.; B. B. Dey, D.Sc. Lond., F.I.C. *Econ.*—J. Matthai, B.Litt. Ox., D.Sc. Lond., B.L. *Engl.*—H. S. Duncan, M.A.; S. E. Ranganathan, M.A., L.T.; D. S. Sarma, M.A., L.T.; T. B. Krishnaswami Mudaliar, M.A., B.L. *Geol.*—C. K. Krishnaswami Pillai, M.A., M.Sc. *Hist.*—M.A. Candeth, B.A., LL.B. Camb. *Maths.*—K. Ananda Rao, B.A. Camb. *Ment. and Mor. Sc.*—A. Chakravarti, M.A., L.T. *Physics*—M. C. S. Anantapadbanabha Rao, M.A., L.T.; H. Parameswaran, M.A., Ph.D., D.Sc. *Math. Phys.*—Savoor, S. R. U., B.Sc. Lond., B.A. Camb. *Sansk.*—S. Kuppuswami Sastri, M.A. *Zool.*—K. Ramunni Menon, M.A. Camb. 35 other Teachers.

MADRAS, *Queen Mary's College.* Principal—Miss de la Hey. 11 other Profs. and Lecturers and 4 Pandits.

MADRAS, *Women's Christian College.* Principal, and Prof. of *Ancient Hist.*, etc.—Miss E. McDougall, M.A. Vice-Principal, and Prof. of *Phys.*—Miss E. M. Coon, M.A.

MADURA, *American College* (Mission). Principal—W. W Wallace, M.A., B.D. Vice-Principal—Peter Isaac, B.A., L.T. Heads of Depts.: *Engl.*—James M. Hess, M.A., B.D. *Hist. and Econ.*—A. J. Saunders, M.A., B.D. *Physics and Chem.*—E. M. Flint, M.A., B.Sc. 23 other Teachers.

MANGALORE, *St. Agnes' College.* Principal—Sister M. Annunciata, A.C.

MANGALORE, *St. Aloysius' College* (S.J.). Principal—Rev. L. Proserpio, S.J., M.A., D.D. 22 other Teachers.

MANNARGUDI, *Findlay College* (Wesleyan Mission). Principal, and Prof. of *Engl.*—Rev. R. Smailes, M.A. Camb. 13 other Teachers.

MASULIPATAM, *Noble College* (Church Miss. Soc.). Govt. annual grant. Principal—Rev. J. Roystrock, M.A., B.D., on furlough; A. B. Johnston, M.A., acting. 17 Profs., etc.

RAJAHMUNDRY, *Government College.* Principal, and Prof. of *Engl.*—N. R. Krishnamma, B.A. 26 other Teachers.

TINNEVELLY, *Hindu College.* Principal—M. V. N. Subba Rao, M.A.

TRICHINOPOLY, *National College.* Principal—V. Saranatha Aiyangar, M.A.

TRICHINOPOLY, *St. Joseph's College* (S.J.). Open to all creeds and classes, but primarily for R.C.'s. Rector—F. X. Froehly. Principal—F. Bertram. Profs.: *Engl.*—C. Leigh. *Bot. and Phys.*—E. Gombert. *Chem.*—A. Hass. *Org. Chem. and Zool.*—F. J. Caius. *Econ.*—P. Carty. *Hist.*—A. Saldanha and J. Steenkiste. *Maths.*—C. Pruvôt. *Phys.*—D. Honoré; P. E. Subrahmanya Aiyar, M.A. *French*—J. Bourdot. *Latin*—G. Foreau. 30 other Teachers.

TRICHINOPOLY, *Bishop Heber College.* Principal and Warden, and Prof. of *Engl.*—A. F. Gardiner, M.A. (on leave). Ag. Principal—M. Koilpillai, M.A., L.T. 27 Profs. and Lectrs.

TRIVANDRUM, *Maharaja's College of Arts* (Govt.). Founded 1924. Principal—Rao Bahadur, K. V. Rangaswami Aiyangar, M.A. 11 Profs. and Lectrs., 13 Tutors and Pandits.

TRIVANDRUM, *Maharaja's College of Science* (Govt.). Principal, and Prof. of *Appl. Maths. and Physics*—R. Krishnaswami Aiyar, B.A., acting. 29 other Teachers.

VIZIANAGRAM, *Maharaja's College.* Principal—K. Janaki Rao, B.A., L.T.

Teaching

MADRAS, *Teachers' College* (Govt.). Principal—R. G. Grieve, M.A.

MADRAS, *Lady Willingdon Training College.* Principal—Miss J. M. Gerrard, M.A.

MADRAS, *St. Christopher's Training College.* Principal—Miss K. N. Brockway, M.A.

TRIVANDRUM, *Training College* (Govt.). Principal—Rao Bahadur, K. V. Rangaswami Aiyangar, M.A. 14 other Teachers.

Law

MADRAS, *Law College.* Principal—A. Davis, M.A., Barr.-at-Law (on leave).

Ag. Principal—C. Kunhiraman, B.A., B.L., Barr.-at-Law; Prof. K. Subrahmanya Pillai, M.A., M.L. 7 Asst. Profs.

TRIVANDRUM, *Maharaja's Law Coll.* (Govt.). Principal—H. S. Chatfield, M.A., Barr.-at-Law. Senr. Profs.—E. J. John, B.A., B.L.; M. K. Govinda Pillai, B.A., B.L. 8 Junr. Profs.

Medical

MADRAS, *Medical College* (subject to the authority of the Surg.-Genl. with the Govt. of Mad.). Its certifs. are recognized by the Colls. of Surgs. of Eng., Scot., and Irel. Women students are admitted free. Principal—Lt.-Col. F. F. Elwes, C.I.E., M.D., I.M.S. (on leave). Other Professors: *Anat.*—Rao Sahib T. Sundara Reddy, F.R.C.S.I. *Hyg.*—Lt.-Col. R. B. B. Foster, M.B., D.P.H., I.M.S. *Mat. Med.*—M. R. Guruswami Mudaliar, M.D. *Med. Jurispr.*—Lt.-Col. Dewan Ganapat Rai, I.M.S. *Midw.*—Major C. A. F. Hingston, I.M.S., on leave, Major W. C. Gray, I.M.S., acting. *Ophth.*—Major R. E. Wright, I.M.S. *Path.*—Major W. L. Forsyth, I.M.S., on leave, T. S. Tirumurthi, B.A., M.B., C.M., acting. *Physiol.*—Major G. E. Malcomson, M.D., D.P.H., I.M.S. (Major J. M. Skinner, I.M.S., acting). *Surg.*—Lt.-Col. E. W. C. Bradfield, O.B.E., I.M.S. *Biol.*—S. Rangachariar, M.B., C.M. *Chem.*—Major C. Newcomb, I.M.S. *Bio-Chem.*—J. Frost, M.B. 32 Lectrs. and Assts.

VIZAGAPATAM, *Medical College.* Principal—Major F. J. Anderson, I.M.S.

Engineering

MADRAS, *College of Engineering.* Principal—C. L. Cartwright, M.I.Mech.E., A.M.I.C.E., M.I.E.E. Profs.: *Civil E.*—G. Nagarathnam Aiyar, B.A., B.E.; K. C. Chakko, D.Sc. (Eng.) Lond. *Mech. E.*—M. K. Ranganatham. *Elec. E.*—H. B. Mathews, M.I.E.E., on leave, P. Subba Rao, B.A., A.M.I.E.E. Lond., A.M.I.E. Ind., acting. *Maths.*—K. R. Ramaswami Aiyangar, M.A., L.T. *Technical Chem.*—P. Narayana Gour, M.A., B.Sc. 17 Instructors.

Agriculture

COIMBATORE, *Agricultural College and Research Institute.* Principal—R. C. Wood, M.A. (on deputation); R. C. Broadfoot, N.D.A., C.D.A. (Ag.), and 24 other Teachers and Investigators. Deputy Directors of *Agric.*: Live-stock—R. W. Littlewood; Planting Districts—D. G. Munro, B.Sc.

Oriental Learning

One Sanskrit College in Madras and eighteen in other towns are recognized as qualified to provide instruction for the Oriental Titles.

THE YEAR 1923–24

BENEFACTIONS. Rs. 23,000 for N. S. Ammal's scholarships; the late Sir William Meyer, Rs. 45,200; Rs. 6500 for gold medals and prizes.

NEW RECOGNITIONS AND AFFILIATIONS. Hindu College, Tinnevelly, in Group V., B.A. Degree Courses; Pachaiyappa's College, Madras, Branch III.—History and Economics and Politics—B.A. Honours; National Theosophical College, Adyar, Intermediate Courses; Sri Minakshi College, Chidambaram, Groups I. and IV., B.A.; National College, Trichinopoly, Groups IV. and V., B.A.; St. Agnes' College, Mangalore, Group V., B.A.

DEGREES. B.A., 1434 (51 women); B.A. (Hons.), 106 (9 women); M.A.,

83 (7 women) ; L.T., 175 (19 women) ; B.Sc.Ag., 7 ; B.Sc., 3 ; D.Sc., 1 ; B.E., 18 ; L.M. and S., 25 ; M.B. and B.S., 39 (2 women) ; B.S.Sc., 7 ; B.L., 211 ; M.L., 19.

One GRADUATE SCHOLARSHIP holder carried on research work in Maths. in the Univ. of St. Andrews.

UNIV. EXTENSION work included one course in Physical Science, one in Nat. Science, and 3 in History and Economics. Vacation course in Maths. arranged for teachers of High Schools and Colleges.

UNIVERSITY OF MYSORE

CHANCELLOR—H.H. THE MAHARAJA OF MYSORE.

PRO-CHANCELLOR—H.H. SRI NARASIMHA RAJA WADIYAR, G.C.I.E., Yuvaraja of Mysore.

VICE-CHANCELLOR—BRAJENDRA NATH SEAL, M.A., Ph.D., D.Sc.

REGISTRAR—V. SUBRAHMANYA IYER, B.A.

LIBRARIANS—N. NARASIMHAMURTHI, M.A., B.L.; (Oriental L.) R. SHAMA SASTRI, B.A., Ph.D.

CONSTITUENT COLLEGES

At Mysore

The Maharaja's College.
The Maharani's Women's College.

At Bangalore

The Central College.
The College of Engineering.
The Medical College.

PROFESSORS, ETC., November 1924

[M., W., C., E. = at Maharaja's, Women's, Central, Engineering College. V. = Visiting.]

Archæology [Director.
Sastri, R. Shama, B.A., Ph.D.

Botany (C.) [Prof.
Sampatkumaran, M.A., Ph.D.Chic.
1 Lectr., 1 Demr.

Chemistry [Prof. (C.).
Usher, F. L., B.Sc. Lond.
Srinivasa Rao, M. G., M.A. Prof. (C.).
3 other Teachers (C. and E.).

Commerce (M.)
3 Teachers.

Economics
Subba Rao, M.A. Camb., Barr.-at-Law (Principal) Prof. (M.).
2 Lectrs. (W. and E.).

Engineering (E.)
Ramaswami Iyer, S. A., A.C.E., B.E. (Principal) (Civ. E.) Prof.
Ramaswamy, E. K., B.Sc., A.C.G.I. (Mech. E.) Prof.
Iyengar, N. N., B.A. (Elec. E.) Prof.
4 Asst. Profs., 2 Instructors.

English
Mackintosh, A. B., B.A. Ox., M.A. St. And. Prof. (M., W.).
Rollo, J. C., B.A. Ox., M.A. Glas. Prof. (M., W.).
Sell, F. R., M.A. Ox. Prof. (C.).
McAlpine, E. G., M.A. Edin. Prof. (C.).
Hensman, Mrs. S. G., M.A. Prof. (W.).
Srikantia, B. M., M.A., B.L. Prof. (M., W.).
Annaji Rao, P. S., M.A., B.L. Acting.
2 Asst. Profs., 7 other Teachers.

French
Feuga, R., B.A. Lectr. (V., M., W.).
Collart, Father R. M. Lectr. (V., C.).

Geology (C.)
Sampathiengar, P., M.A. Prof.
1 Lectr.

Hindustani and Persian
Aga M. Abbas Shooshtry Asst. Prof. (M.).
2 Munshis (M., C.).

History
Venkatesvara Ayyar, S. V., M.A., L.T. Prof. (M., W.).
Krishnaswami Iyengar, S., M.A., Ph.D. Prof. (M.) (Supernumerary).
Sri Rukminiamma, K. D., B.A. Prof. & Supt. (W.).
2 Asst. Profs. (M., W.); 3 Lectrs. and 1 Tutor.

Kannada
Krishnappa, B., M.A. Asst. Prof. (M.).
1 Lectr. (C.); 2 Pandits (M., C.).

Mathematics
Narayana Iyengar, M. T., M.A. Prof. (C.).
3 Asst. Profs. (C., E.); 1 Lectr. (M.); 1 other Teacher (C.).

Philosophy (M.)
Wadia, A. R., B.A. Camb., Barr.-at-Law Prof.
1 Asst. Prof.; 1 Lectr. and 1 other Teacher.

Physics
Metcalfe, E. P., B.Sc. Lond. (Principal) Prof. (C.).
Venkatesachar, B., M.A. Prof. (C.).
Venkata Rao Telang, A., M.A. Asst. Prof. (C.).
1 Asst. Prof. (C.); 1 Lectr. (C.); 1 other Teacher.

Sanskrit [Prof. (M.).
Hiriyanna, M., M.A., L.T.
1 Asst. Prof. (M.); 1 Lectr. (M.). 4 Pandits (M., C.).

Tamil and Telugu
4 Pandits (M., C.).

Zoology (C.) [Prof.
Narayana Rao, C. R., M.A., L.T
1 Asst. Prof.; 1 other Teacher.

GENERAL INFORMATION (v. also p. 500)

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges. The executive government is vested in a Council of from 9 to 15 members, comprising the Vice-Chancellor, Inspr.-Genl. of Educn., Principals of Constituent Colls., Deans of Faculties, of Arts and Science, and member appointed by the Chancellor, or, if Govt. so direct, elected by the Senate from among its members. The Senate is charged with the organization of instruction, etc. It consists of from 40 to 70 members, including the Council, the Univ. Profs., and persons nominated by the Chancellor or elected with his approval.

LIBRARIES. Univ., 11,000 vols.; Colleges, 25,500; Sansk. and Oriental, 11,500 vols. and 10,000 MSS.

FACULTIES. Arts, Science, Medicine. TERMS: Jan.–April, July–Dec.

ADMISSION to B.A. or B.Sc. courses is normally by Entrance examn. in English, a second language, and three other subjects. Candidates prepare for this by an *extra* yr. of study in Collegiate High Schools after completing the ordinary High School course. The Interm. examn. of any other Indian Univ. is accepted as equivalent to the 1st yr. examn. and qualifies for admission to the 2nd yr. class. Admission to the B.E. course is by the Entrance examn. with Phys., Chem., and Maths.; to the B.Com. course by the Entrance examn. or corresponding examn. of any other Univ. Graduates in Arts of other Indian Univs. are admitted to the M.A. courses provided they have passed

their degree examns. in cognate subjects. The B.A. and B.Sc. of other Indian Univs. are recognized for the purpose of admission to the B.T. course.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Com.; 4 yrs.—B.E. (passed candidates will be eligible to take the degree after a year's practical course in a recognized firm); 5 yrs.—M.B., B.S.; graduate course for M.A.—2 yrs. Courses for B.T. (teaching) and M.Sc. not yet organized. The D.Lit. and D.Sc. are Honorary.

RECOGNITION OF DEGREES and examns. of other Univs.: (1) The B.A. Degree of other Indian Univs. is deemed equivalent to the B.A. of this Univ. and admits to its M.A. courses, provided they have passed their degree examns. in cognate subjects. (2) The B.A. or B.Sc. of other Indian Univs. is accepted for admission to the B.T. course. (3) The Interm. Examn. of any Indian Univ. = the 1st Year Certif. Examn. of this Univ. and admits to the 2nd year B.A. or B.Sc. class under certain conditions. (4) The B.A., B.Sc., M.A., M.Sc., and B.L. of the Dacca Univ. = the corresponding degrees of this Univ. and admit to corresponding privileges. (5) The degrees of the Lucknow Univ. = the corresponding degrees of this Univ.

RECOGNITION BY OTHER UNIVERSITIES. Calcutta: (1) B.A. and B.Sc. Mysore are admitted to Calcutta M.A. and M.Sc. courses equally with B.A. and B.Sc. Calc.; (2) holders of Mysore first year Certif. (with Physics, Chem., and Maths., *or* Zool., Geol., and Bot.) are admitted to Prelim. Scientific M.B. of Calcutta equally with students who have passed I.Sc. Calc.

Bombay: (1) Mysore B.A. are admitted to Bombay LL.B. course equally with B.A. Bom.; (2) Mysore first year Certif. = corresponding examn. of an Arts College affiliated to Bombay; (3) for admission to Bombay B.Com. degree examn. graduates in Arts or in Commerce of Mysore are on same footing as graduates in Arts or in Commerce of Statutory Indian Univs.

Madras: (1) recognition similar to Bombay (1); (2) Mysore B.A. (Science) and B.Sc. who have taken Physics, Chem., Biol., or Maths. for degree course are admitted to Madras medical courses.

Panjab: Mysore B.A. and B.Sc. are admitted to post-graduation study equally with B.A. and B.Sc. Panj.

Benares: (1) recognition similar to Calcutta (1); (2) First Year Cert. Examn. = Interm., Benares; (3) Mysore Entrance = Benares Admission; (4) Mysore First Year with Maths., Physics, and Chem. for admission to B.Sc. Engin., Benares.

Lucknow: Mysore degree examns. = those of Lucknow.

Dacca: Mysore degree = corresponding Dacca degree for admission to courses of study for degrees. This does not apply necessarily to degrees with honours.

Aligarh: all Mysore examns. are recognized. See also p. 103 and Appendix XXIII., *Oxford, Cambridge, and Scottish Univs.*

SCHOLARSHIPS for graduates, 6 of Rs. 20 p.m. and 6 of Rs. 15, including several for students belonging to "backward communities."

FEES for courses for Bachelorship, Rs. 60 p.a. (B.E., Rs. 100); M.B., B.S., Rs. 200.

RESIDENCE. Hostels at Colleges. Cost of living ranges from Rs. 252 to 312 p.a. at Mysore, Rs. 276 at Bangalore.

An APPOINTMENTS BUREAU is maintained.

INSPECTION OF SCHOOLS recognized by the Univ. is done by Profs. deputed by the Council.

THE YEAR 1923–24

BENEFACTIONS received up to July 1924 brought the total endowment fund up to Rs. 1,86,501. Receipts from all sources, 1923–24, Rs. 7,30,000 (expenditure, Rs. 6,82,000).

The MEDICAL COLLEGE opened in July 1924.

VISITORS. Dr. Sylvain Levi of Paris and Dr. Stella Kramarish of Vienna, and several Professors from other Indian Univs. visited and lectured in the Univ.

NUMBER OF STUDENTS. Maharaja's College, 463; Central, 466; Maharani's, 11; Engineering, 148; Medical, 21. Arts, 474; Sciences, 466.

DEGREES CONFERRED. B.A., 162; B.Sc., 42; B.Com., 3; M.A., 9; B.E., 32.

NAGPUR UNIVERSITY

CHANCELLOR—THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—RAI BAHADUR SIR B. K. BOSE, K.C.I.E., M.A., B.L.

TREASURER—RAO BAHADUR V. M. KELKER, M.A.

REGISTRAR—R. R. KHANNA, M.Sc.

COLLEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).*

HISLOP COLLEGE, NAGPUR (H).*

ROBERTSON COLLEGE, JUBBULPORE (R).*

VICTORIA COLLEGE OF SCIENCE, NAGPUR (V).*

SPENCE TRAINING COLLEGE, JUBBULPORE (T).*

KING EDWARD COLLEGE, AMRAOTI (K).*

TEACHING STAFF, October 1924

Arabic and Persian

Aga-Hyder-Hasan, Syed, M.A. Alld. (K).

Taqui, S. G., M.A. (R).

Iqbal Hussain, Quazi Syed, M.A. Panj. (M).

Ghani, M. A., M.A. (M).

Botany and Zoology

Pandit, B. R., B.Sc. Alld., M.Sc. Bom. (H).

Moghe, M. A., M.A. Alld., M.Sc. Bom. (Economics also) (H).

Gour, Ramdeen, B.Sc. Alld. (H).

Chemistry

Mukerji, B., B.A., B.Sc. Camb. (Physics also) (V).

Buxy, T. K., M.A., F.C.S. Lond. (R).

Tamhankar, G. R., M.Sc. (R).

Beckett, R. H., B.Sc. Lond. (V).

Godbole, S. N., M.Sc. Alld. (V).

Surey, L. S., M.Sc. Alld. (K).

Kale, V. D., B.Sc. Alld. (H).

Gokhale, L. K., M.Sc. (Physics also) (V).

Chandorker, D. V., M.Sc. Alld. (Physics also) (V).

Economics, v. also Botany

Nanavati, M. H., M.A., LL.B. Bom. (K).

Naidu, V. S., M.A. Mad. (R).

Prentice, J. S., B.A. (H).

Sen Gupta, A. C., M.A. Edin. (M).

Dadachanji, B. E., M.A. (M).

Education

Macnee, E. A., M.A., Principal (on leave) (T).

Ghosal, S. C., B.A., B.Sc., LL.B. (T).

Gokhale, S. H., M.A. (T).

Hari Ram, B.A. (T).

Tamaskar, G. D., M.A. (T).

Jha, L. S., Rai Sahib, B.A., Acting Principal (T).

Kanetkar, G. G., M.A. (T).

Hariram, L. (Drawing) (T).

* (M), (H), etc. : symbols for reference to the Colleges.

English and History
Tostevin, F. P., M.A. Ox. (K).
Fernandes, T., M.A. (K).
Sells, A. C., M.A. Ox. (English) (R) Dean of Faculty.
Rowlands, W. S., B.A. Ox. (English and Philos.) (R).
Sheo-Prasad, M.A. (English) (R).
Naolekar, N. R., M.A. (Sansk. and English) (R.)
Jwala Prasad, M.A. (Philos. and English) (R).
Pande, K. D., M.A. (Maths. and English) (R).
Gardiner, T. W., M.A. Camb. (H).
Bremner, J., M.A. Aberd. (English and Philos.) (H).
Buel, R. O., M.A. (H).
Hoyland, J. S., M.A. Camb. (H).
Gadre, B. N., M.A. Alld. (H).
Cheshire, F. M., B.A. Camb. (M).
Ranganatham, N., B.A. Mad. (English) (M).
Ganguli, N., M.A. Alld. (English) (M).
Chordia, S., M.A. Alld. (English) (M).
Narayan, Hirde, M.A. Panj. (M).
Power, B. L., M.A. Alld. (M).
Colaco, D. S., M.A. Mad. (English) (K).
Madan, Gopal, M.A. Alld. (English) (M).
Paul, J. N. W., M.A. Alld. (R).

History
Hunter, G. R., M.A. Ox. (M).
Watchmaker, B. K., M.A. (R).
Saksena, N. C., M.A., LL.B. Alld. (R).

Indian Vernacular Languages
19 members of staff who also teach other subjects.

Mathematics, v. also English
Belekar, S. B., M.A. (M).
Mone, T. V., M.A. (R).
Garde, G. K., M.A. (H).
Dhar, S. C., D.Sc. (M).
Agnihotri, G. P., B.Sc. Alld. (Physics also) (H).

Modern European and Classical Languages
Dadachanji, B. E., M.A. Bom. (also Indian Vernaculars) (M).
6 others who also teach English and History.

Philosophy, v. also Engl.
Ramanthan, P. S., M.A. Mad. (K).
Raju, J. B , B.Sc. Ox. (M).
Mukerji, J. N., M.A. Calc. (M).
Phadke, N. S., M A. Bom. (H).

Physics, v. also Chem., Maths.
De, M. L., M.A. Calc. (R).
Matange, D. G., M.Sc. Alld. (R).
Owen, M., M.Sc. (M).
Deoras, R. S., M.Sc. Alld. (V).
Thatte, V. N., M.Sc. Alld. (K).

Sanskrit, v. also English
Telang, H. K. S., M.A. (K).
Somalwar, S. G., M.A. Alld. (H).
Rampratap Shastri (M).
Mirashi, V. V., M.A. Bom. (M).

Law
Dick, G. P., C.I.E., Barr.-at-Law
Wazalwar, A. V., B.A., LL.M. Bom.
Ghosh, J. C., B.A., B.L. Calc.
Bose, V., B.A., LL.B. Camb.
Thakur, V. K., M.A., LL.B. Camb.

* (M), (H), etc. : symbols for reference to the Colleges.

GENERAL INFORMATION (v. also p. 500)

The University was established in 1923. The six colleges were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, Faculties of Arts, Science, and

Law, and Boards of Studies. The Univ. does not hold a Matriculation Examn., but admits students who have passed (*a*) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the consent of the Govr.-Genl.) as equivalent thereto, (*b*) the Matricn. Examn. of an Indian Univ.

FACULTIES. Arts, Science, Law, and Education.

DEGREES. B.A., B.Sc., M.A., M.Sc., D.Sc., LL.B., LL.M., LL.D.

THE YEAR 1923–24. *Benefactions*: Several donations for prizes, medals, and scholarships. *Honorary degree* (D.Litt.) conferred on Sir Frank Sly, first Chancellor of the Univ. *Other degrees conferred* (1924): M.A., 5; M.Sc., 5; LL.B., 52; L.T., 13; B.A., 65; B.Sc., 26.

OSMANIA UNIVERSITY, HYDERABAD, DECCAN

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G.C.S.I., G.C.B.E.

CHANCELLOR—NAWAB WALI-UD-DAULAH BAHADUR.

VICE-CHANCELLOR—Educational Member, Executive Council.

PRINCIPAL—MOHAMMED ABDUR RAHMAN KHAN, B.Sc. Lond., A.R.C.Sc.

REGISTRAR—H. A. ANSARI, B.A. Alld.

CONSTITUENT COLLEGE—Osmania University College.

PROFESSORS, ETC., November 1924

Botany

Baber Mirza, B.Sc. Asst. Prof.

Chemistry

..... Prof.

Mahmood Ahmed Khan, B.Sc. All. Asst. Prof.

..... Asst. Prof.

1 Demr.

Economics

..... Prof.

Mohd. Elias Burney, M.A., LL.B. All. Asst. Prof.

H. Rahman, M.A., LL.B. All. Asst. Prof.

English

N. G. Welinkar, M.A., LL.B. Bom. Prof.

H. Ali-Khan, B.A. Ox. Prof.

Speight, E. E., B.A. Lond. Prof.

Syed Abdul Latif, B.A. Mad., Ph.D. Lond. Prof.

M. Rahimuddin, M.A. Bom. Asst. Prof.

History [Prof.

Haroon Khan Sherwani, B.A. Ox.

..... Prof.

Ibn-i-Hasan, M.A. All. Asst. Prof.

Mohd. Jamilur Rahman, M.A. Panj. Asst. Prof.

K. C. Roy-Saksena, M.A. All. Asst. Prof.

Najmul Huda, B.A. Patna Asst. Prof.

Languages (Ancient and Modern)

Wahiduddin Salim (Urdu) Prof.

Asst. Profs. :

Syed Ghulam Nabi (Arabic)

Abdul Hai (Arabic)

Syed Ibrahim (Arabic)

Syed Ashraf Shamsi (Persian).

Abdul Hamid Khan (Persian).

Syed Sajjad Husain, M.A. All. (Urdu).

C. N. Joshi, M.A. Bom (Marathi)

T. R. Rama Rao, B.A. Mad. (Kanarese)

R. Subba Rao (Telugu)

Hari Har Shastri (Sanskrit).

Mathematics

Quazi Mohd. Husain, M.A. Panj., B.A., LL.B. Camb. Prof.

Kishan Chand, M.A. Camb. Prof.

Sh. Barkat Ali, B.A. Panj. Acting Asst. Prof.

Philosophy

..... Prof.

Khalifa Abdul Hakim, M.A., LL.B. Panj. Asst. Prof.

Abdul Bari Ag. Asst. Prof.

Mutazid Wali-ur Rahman, M.A. Panj. Asst. Prof.

Physics

Abdur - Rahman - Khan, B.Sc. Lond. Prof.

Wahidur Rahman, B.Sc. Calc. Prof.

Nasir Ahmed, M.Sc. All. Asst. Prof.

1 Demr.

Theology

Manazir Ahsan-Gilani Asst. Prof.

Zoology

..... Prof.

Faculty of Muslim Theology

..... Prof.

Asst. Profs. :

Abdul Qadeer (Islamic Law).

Sher Ali (Philosophy of Islam).

Mufti Abdul Lateef (Quran).

Shah Mustafa Qadiri (Islamic Law).

Abdul Wasay (Hadith).

Syed Ahmed Husain (Logic).

Faculty of Law

Mahboob Ali, B.A. Ox. Prof.

..... Asst. Prof.

Alam Ali Khan, B.A., B.C.L. Ox. Lectr.

GENERAL INFORMATION (v. also p. 500)

The University was established by a Firman (Order) of H.E.H. the Nizam, in April 1917, but actual tuitional work began in Aug. 1919, with the opening of the College. It differs from the other Univs. of India in that instruction throughout the college courses is imparted through the medium of Urdu, English being taught as a compulsory Second Language, while in other Univs. the medium of instruction is English. The Bureau of Translation which came into existence in Sept. 1917 has provided in Urdu all books required for the Interm. and B.A. examns. The executive government of the Univ. is in the hands of a Council consisting of 11 members. The organization of instruction rests with the Faculties and the Senate, which consists of from 40 to 60 members in addition to the Council, Univ. Profs., and representatives of graduates and Faculties. The Univ. is entirely financed by the State at an annual cost of £50,000.

LIBRARY. 18,000 vols., 763 MSS. The Staff have also access to the large Asafia Library.

BUREAU OF TRANSLATION. Curator, Md. Enayatullah, B.A., 15 Translators, Assts. and Advisers. Books published, 68 ; in preparation, 77.

FACULTIES. Arts (including Science), Law, and Islamic Theology. Faculties of Education, Engineering and Medicine under consideration.

TERMS. July to Dec. and Jan. to April.

ADMISSION. The Univ. holds a Matricn. examn. in English, one addl. lang., Hist. and Geog., Nat. Sc. and Maths., but the Matricn. examns. of other Univs., the Senior Oxford and Cambridge Local examns. and the State H.S.L.C. examn. are accepted as equivalent. The B.A. and B.D. courses extend over 4 yrs. with an Interm. examn. at the end of 2 yrs. The Interm. examn. of other Indian Univs. is accepted as equivalent to this. M.A. and LL.B. courses cover each 2 yrs. after graduation.

FEES. Interm.—Rs. 60 p.a. ; B.A.—Rs. 80 p.a. ; M.A.—Rs. 100 p.a. ; LL.B.—Rs. 80 p.a.

RESIDENCE. 4 hostels attached to the College. Cost of living about Rs. 200 p.a.

THE YEAR 1923-24

Arrangements were made for the teaching of Biology in the Univ. College. An Intermediate Class was opened in the Girls' High School, Nampalli, Hyderabad. The courses for the Matriculation Examn. were revised, and Urdu was made a compulsory subject. Students appearing as private candidates are required to undergo a test before appearing at the University Examn. At the instance of the Univ. of Delhi, its Degrees were recognized as equivalent to the corresponding degrees of the Osmania Univ. on a reciprocal basis. Principal A. Siddiqi resigned on appointment as Prof. of Arabic in the Univ. of Dacca. The Honorary Degree of Sultan-ul-Ulum (King of Learning) was conferred on H.E.H. the Nizam.

NUMBER OF STUDENTS. University College: In Arts, 564; in Theology, 16; and Law, 65. Intermediate Colleges: Hyderabad—125, Aurangabad—44.

THE UNIVERSITY OF THE PANJAB, LAHORE

PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—Hon. Sir JOHN MAYNARD, M.A. Ox., K.C.I.E., C.S.I., I.C.S.

DEAN OF UNIVERSITY INSTRUCTION—MANOHAR LAL, M.A.

REGISTRAR—P. N. DUTT, B.A., R.B.

JOINT REGISTRAR—ISHWAR DAS, M.A., LL.B.

UNIVERSITY PROFESSORS, ETC, October 29, 1924

[(U.)=maintained entirely by the Univ.]

Arabic, v. also Persian

Md. Shafi, B.A. Camb., M.A. Prof. (U.).
Sadr-ud-din, D.Litt. Lectr.
Asghar Ali, M.O.L. Lectr.
Najm-ud-Din Lectr.

Botany

Shiv Ram Kashyap, B.A. Camb., M.Sc., Rai Sahib, I.E.S. Prof.
Chaudhuri, H., D.Sc. Reader (U.).
Ghose, S. L., M.Sc., Ph.D. Lectr.
Mehr Chand Sethi, M.Sc. Lectr.

Chemistry, Physical

Bhatnagar, S. S., D.Sc. Prof. (U.).
Dunnicliff, H. B., M.A., Sc.D., F.I.C., I.E.S. Prof.
Yajnik, N. A., M.A., A.I.C. Lectr.

Economics [Prof. (U.).

Myles, W. H., M.A. Edin.

College Profs. co-operating :

Sondhi, G. D., M.A., I.E.S.
Brij-Narain, M.A.
Wilson, J. L., M.A.
Lucas, E. D., M.A., D.D., Ph.D.

History

..... Prof. (U.).

Mathematics

Rao, C. V. H., B.A. Camb., M.A. Prof. (U.).
Chowla, G. S., M.A. Camb. Prof.
Devi Dyal, B.A. Lectr.
Das Gupta, S. N., M.A. Lectr.
Hem Raj, M.A. Lectr.
Samuels-Lal, P., M.A. Lectr.
Ganguly, A. N., M.A. Lectr.
Dil-Muhammad, M.A. Lectr.
Honeybourne, Miss D.M., B.A. ,,

Persian

Md. Iqbal, M.A., Ph.D. Prof. (Arabic and Persian).
Maitra, K. M., M.A. Calc. Lectr.
Fazl-i-Haqq, Q., M.A. Lectr.
Ismail, M., M.A. Calc. Lectr.
Abdul Aziz, M. Lectr.
Muhammad-Shirani Lectr.

Sanskrit

Woolner, A. C., M.A. Ox. P'pal, Oriental Coll. (on leave) (U.).
Lakshman-Sarup, M.A., D.Phil. Ox. Prof.
Raghubar-Dayal, M.A., M.O.L. Lectr.
Gulbahar-Singh, M.A., LL.B. Lectr.
Sarkar, M. K., M.A. Lectr.

Zoology

G. Matthai, M.A., I.E.S. Prof.
Diwan Anand Kumar, M.A. Camb. Reader (U.).
Bihari Lal Bhatia, M.Sc. Lectr.

UNIVERSITY COLLEGES

ORIENTAL COLLEGE, LAHORE. Principal—A. C. Woolner, M.A. (on leave); Md. Shafi, M.A. (acting).

LAW COLLEGE, LAHORE. Principal—K. C. Chatterji, B.A., B.L., Vakil. Lectrs.—C. L. Anand, M.A., LL.B. Lond., Barr.-at-Law; Rahim Bux, M.A., LL.B. 7 Part-time Lectrs.

GENERAL INFORMATION (v. also p. 500)

Established in 1882, the University confined its activities, until recently, mainly to examinations, the control of affiliated institutions, and the provision of instruction in its Oriental and Law Colleges. It has since 1919 undertaken the maintenance of Professors and Readers and co-ordination of higher teaching in other subjects. Honours Schools in Arabic, Sanskrit, Persian, Botany, Zoology, Maths., and Chemistry, and post-graduation teaching in Economics have been instituted in Lahore; and senior teachers in the local colleges, partially relieved of routine work, have supplemented the teaching of Univ. Profs. and Readers.

LIBRARY, 51,000 vols. (arranged on Dewey Decimal system). Chemical LABORATORY. Astronomical OBSERVATORY.

FACULTIES. Oriental, Arts, Law, Medicine, Science, Agriculture, Commerce.

DEGREES. B.A., M.A., D.Lit.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agr.), M.Sc. (Agr.); LL.B., LL.D., LL.M.; M.B., B.S, M.S., M.D.; B.T.; (in Oriental Learning) B.O.L., M.O.L., D.O.L.

Diploma in Commerce (2 yrs.' course). In the Faculty of Oriental Learning a 2 yrs.' course from Matricn. leads to an Interm. examn., and further courses of 2 yrs., 1 yr., and 2 yrs. to the B.O.L., M.O.L., and D.O.L. successively. Examns. are also held for Proficiency, High Proficiency, and Honours in Arabic, Sanskrit, and Persian. Honours admit to the Oriental titles: Maulvi Fazil (Arabic), Shastri (Sanskrit), and Munshi Fazil (Persian); and High Proficiency to Maulvi Alim, Visharada, and Munshi Alim. Similar examns. are held in Urdu, Hindi, Panjabi, and Pashto.

The B.T. is open to any one who after graduating in any faculty other than the Oriental has undergone a 1 yr. course at an Affiliated Training Coll., or any trained S.A.V. graduate teacher not less than eighteen months after his passing the S.A.V. examn.

RECOGNITION OF OTHER INSTITUTIONS. An equivalent examn. of any recognized Univ. may be accepted in lieu of Interm. Arts or Science, B.A. or B.Sc., for the purposes of admission to a higher examn.

SCHOLARSHIPS FOR GRADUATES. Several of from Rs. 20 to Rs. 25 p.m. for 2 yrs. in Oriental Studies, Arts, and Science. Research studentships tenable for from 2 to 4 yrs. in Oriental Hist., Sanskrit, Pali or Prakrit, Arabic, Panjabi, Science.

RESIDENCE. Undergraduates in Lahore Arts Colleges are ordinarily required to reside in College Hostels or in hostels recognized by the Univ.

PUBLICATION. *Calendar* (Sept.), Rs. 5/8/o.

AFFILIATED COLLEGES RECOGNIZED IN DEGREE OR DIPLOMA COURSES

[B.A., M.A., etc.—A., B., C., E., Ec., G., H., M., Ph., Ps., S., Z. = Affiliated up to B.A., M.A., etc. in Arabic, Botany, Chemistry, English, Economics, Geology, History, Maths., Philos., Physics, Sanskrit, Zoology.]

Medical

LAHORE, *Medical College* (Govt.). M.D., M.S., M.Sc.—Physiol. Class accommodation for 510 Degree students. Principal, and Prof. of *Surgery*—Lt.-Col. H. H. Broome, M.B., F.R.C.S. Eng., I.M.S. Other Profs.: *Anat.*—Major P. B. Bharucha, O.B.E., I.M.S.; *Med.*—Lt.-Col. D. W. Sutherland, M.D., C.I.E., C.M., M.R.C.P., I.M.S.; *Forensic Med.*—Civ. Surgeon, Lahore; *Hygiene*—The Asst. Dir. of Public Health; *Clinical Med.*—Major J. J. Harper Nelson, I.M.S.; *Mental Dis.*—Capt. C. J. Lodge Patch, I.M.S.; *Midwifery*—Lt.-Col. G. Tate, I.M.S.; *Path.*—Lt.-Col. H. M. Mackenzie, I.M.S.; *Physiol.*—Major T. A. Hughes, I.M.S.; *Mat. Med.*—Capt. Amir Chand, M.B., I.M.S.; *Operative Surgery*—Major R. H. Bott, M.B., B.S. Lond., F.R.C.S., I.M.S.; *Dis. Eye, Ear, and Throat*—Major A. M. Dick, C.B.E., M.B., Ch.B. Edin., M.R.C.S., L.R.C.P. Lond., F.R.C.S. Eng., I.M.S.

DELHI, *Lady Hardinge Medical College for Women.* M.B., B.S. Principal—Miss G. J. Campbell, M.D., Ch.B. Glas.

Teaching

LAHORE, *Central Training College* (Govt.). B.T. Principal—H. G. Wyatt, M.A. Ox. (on leave); R. H. Whitehouse, D.Sc., acting.

Agriculture

LYALLPUR, *Agricultural College* (Govt.). M.Sc.Agr. Research Depts. in Agr., Bot., Chem. Principal, and Prof. of *Bot.* and Economic Botanist—D. Milne, B.Sc. (Ag.), I.A.S. Prof. of Agr.—H. R. Stewart, D.I.C. Lond., N.D.A. Prof. of *Chem.* and Chem Adviser to Govt.—P. E. Lander, M.A. Camb., D.Sc., A.I.C.

Arts and Science

AMRITSAR, *Khalsa College.* M.A.—Ec., Maths., E. Large Collegiate School attached. Principal—Man Mohan, M.A. *English*—Harkishan Singh, M.A. *Maths.*—Hukam Chand, M.A., B.Sc. *Econ.*—Harnam Singh, M.A.

JAMMU, *Prince of Wales College.* M.A.—Ec.; M.Sc.—G. Principal, and Prof. of *Economics* and *English*—Fram. M. Dadina, M.A. Camb., Bar.-at-Law. *Geol.*—B. K. Bose, M.Sc.

LAHORE, *Dayanand Anglo-Vedic College.* M.A.—Ec., S. 600 resident and 400 other students. Principal, and Prof. of *Chem.*—Lala Sain Das, M.A. Calc., B.A. Camb. *Econ.*—R. Amar Nath Bali, M.A. *Sansk.*—M. K. Sircar, M.A.

LAHORE, *Dyal Singh College.* M.A.—M. Principal, and Prof. of *Maths.*—Hem Raj, M.A. *Philos.*—Amar Nath Bhasin, M.A.

LAHORE, *Forman Christian College.* M.A.—E., Ec., H., M.; M.Sc.—M., C. Supported and controlled through Board of Trustees by Panjab Mission of American Presb. Church. Has a Dept. of Indust. Chem. Principal, and Prof. of *Econ.*—E. D. Lucas, M.A., D.D., Ph.D. Columbia. Other Profs.: C. H. Rice, M.A., Ph.D. Princeton; *English*—J. B. Weir, M.A.; F. M. Velte, M.A., Ph.D. Princeton; *Hist.*—Ross Wilson, M.A.; *Maths.*—S. N. Das Gupta, M.A. Calc.: *Chem.*—P. C. Speers, B.Sc.

LAHORE, *Government College.* M.A.—A., C., E., Ec., H., M., Ph., Ps., S.; M.Sc.—B., C., M., Ps., Z. Principal, and Prof. of *Physics*—A. S. Hemmy, M.Sc. Melb., B.A. Camb. Profs. of *Arabic*—M. Sadr-ud-din, D.Litt.; *Bot.*—Shiv Ram Kashyap, B.A. Camb., M.Sc., Rai Sahib; *Econ.*—G. D. Sondhi, B.A. Camb.; *English*—J. R. Firth, M.A.; *Hist.*—H. L. O. Garrett, M.A. Camb.; *Maths.*—Gopal Singh Chawla, M.A. Panj. and Calc., B.A. Camb., R.B.; *Zool.*—G. Matthai, B.A. Camb., M.Sc.; *Chem.*—H. B. Dunnicliff, M.A., Sc.D., F.I.C.; *Philos.*—G. C. Chatterji, M.A.; *Sansk.*—Gulbahar Singh, M.A., LL.B.

LAHORE, *Islamia College.* M.A.—A., Ph., Ec. For Muhammadans. Principal, and Prof. of *Engl.* and *Econ.*—J. L. Wilson, M.A. Edin. Profs. of *Arabic*—M. Asghar Ali, M.O.L.; *Philos.*—Abdul-Hamid, M.A.

LAHORE, *Sanatana Dharma College.* B.A.—E., Ec., H., M., Persian, Ph., S. Principal, and Prof. of *Sansk.*—Raghubar Dayal Shastri, M.A., M.O.L.

LAHORE, *Kinnaird Girls' College.* Principal, and Prof. of *Econ.*—Miss E. M. Edwards, M.A. Liv.

PATIALA, *Mohindra College* (State). No fees. M.A.—M., Ph. Principal—A. K. Sharma, M.A. Prof. of *Maths.*—Bhagat Ram, M.A., LL.B.

PESHAWAR, *Edwardes College.* B.A.—A., E., Ec., H., M., Ph., S., Persian. Principal, and Prof. of *English*—Rev. R. H. Noble, M.A.

PESHAWAR, *Islamia College.* For Muhammadans. 4 miles from Peshawar. Residential. Large Collegiate School attached. B.A.—A., E., Ec., H., M., Persian, Ph.; B.Sc.—B., C., Ps. Principal, and Prof. of *English and Economics*—H. Martin, O.B.E., M.A. Ox.

RAWALPINDI, *Gordon Mission College.* Principal, and Prof. of *English*—E. L. Porter, M.A., D.D. Westmr., U.S.A.

SIALKOT, *Murray College.* Maintained by Panjab Mission of Church of Scotland. B.A.—A., E., Ec., H., M., Persian, Ph., S. Principal, and Prof. of *Engl.*—Rev. J. Garrett, M.A. 8 other Profs.

SRINAGAR, *Sri Pratap College* (State). M.A.—M., Ph., S. Principal, and Prof. of *Engl.*—L. MacDermott, B.A.; *Maths.*—Gyani Ram, B.A.; *Philos.*—Antarkishen Kichloo, M.A.; *Sansk.*—Ramlal Kanjilal, M.A.

THE YEAR 1923-24

BENEFACTIONS. Govt. grant for Chair of Zoology and Chemistry Dept.

NEW DEVELOPMENTS. The University Chemical Laboratory was completed at a cost of Rs. 4,50,000, including Rs. 1,50,000 for equipment. The Dept. of Chemistry was organized and began to function. A Chair of Zoology to be entirely maintained by the Univ. was created. The Academic Council was constituted, and the reconstruction of the Senate and the Syndicate was considered.

The HONORARY DEGREE of D.Lit. was conferred on Sir Edward D. Maclagan, former Chancellor of the Univ.

Degrees were granted to 1225 men and 20 women, and Oriental Titles were conferred on 233 men during the year 1924.

NUMBER OF STUDENTS appearing for Degree examns. in 1923 and in 1922 in Sansk.—133, 103; Arabic—42, 46; Pers.—301, 317; B.A.—1205, 1406; B.A. Hons.—247, 238; M.A.—111, 98; B.T.—100, 51; B.Sc.—170, 146; B.Sc. Hons.—117, 86; M.Sc.—30, 30; LL.B.—302, 315; M.B., B.S.,—80, 71; M.D.—0, 0.

PATNA UNIVERSITY

CHANCELLOR—THE GOVERNOR OF BIHAR AND ORISSA.

VICE-CHANCELLOR—S. SULTAN AHMED, Bar.-at-Law.

REGISTRAR—R. SHAW, M.A. Aberd.

UNIVERSITY READERS, 1924–25

Siva Ram, M.A., Ph.D. Harv. (Colonial Policy).
C. V. Raman, M.A., D.Sc., F.R.S. (Diffraction of X-rays).
N. K. Bhagwat, M.A. (Buddhistic Philosophy)
R. K. Mukharji, M.A., Ph.D. (Indian Rural Economics).

GENERAL INFORMATION (v. also p. 500)

Founded Oct. 1, 1917. Most of the teaching is conducted in the "admitted" Colleges, v. *infra*.

LIBRARY, 5000 vols.

FACULTIES. Arts, Science, Educn., Law, Engineering.

DEGREES. B.A., M.A., Ph.D., B.Sc., M.Sc., D.Sc., B.Ed., B.L., M.L., D.L., B.E.

RECOGNITION of examns. is accorded by Ox., Camb., Dub., Edin., and the General Med. Council.

PUBLICATIONS. *Calendar*, Rs. 4; *Courses of Studies*, Re. 1; *Question Papers*, Rs. 4; *Regns.*, Re. 1; *Minutes*, Rs. 2; *Matriculation Selections* (Sansk., Pers., Engl. Poetry), Re. 1/8/0 each.

ADMITTED COLLEGES—(*a*) Admitted to Degree Standard

PATNA COLLEGE, *Bankipur*. M.A., M.Sc. Principal, E. A. Horne, M.A. St. And. (acting). Professors: *Persian*—Azimuddin Ahmad, Ph.D. Leip.; M. A. Kadir, M.A. *Chem.*—A. S. Khan, M.Sc. Manc.; K. S. Caldwell, B.Sc. Wales, Ph.D. Leip., M.A.; R. C. Roy, D.Sc. Lond.; C. B. Roy, M.A. *Econ. and Pol. Philos.*—C. J. Hamilton, M.A. Camb.; H. R. Batheja, M.A. Ox.; R. K. Jha, M.A. *Engl.*—J. S. Armour, M.A. Glas.; C. T. Mitra, M.A. *History*—J. N. Sarkar, M.A.; J. N. Samaddar, B.A.; G. S. Bhate, M.A. Edin. *Maths.*—Rai Sahib A. T. Chatterji, M.A.; P. N. Das Gupta, M.Sc.; K. N. Pande, M.A. *Philos.*—C. C. Sinha, M.A.; S. C. Ghosal, M.A. *Physics*—A. T. Mukarji, M.A.; K. Prasad, B.A. Camb.; K. Dayal, M.A.; K. N. Banerji, M.Sc. *Sanskrit*—R. Sarma, M.A.; A. N. Banerji Shastri, Ph.D. Ox.

CUTTACK, *Ravenshaw College*. M.A., B.Sc. Principal—W. Owston Smith, M.A. Ox. (acting). Prof. of *Engl.*—D. Auchterlonie, M.A. Aberd. Other Profs.: *Botany*—P. Misra, M.Sc. *Chem.*—B. K. Singh; C. Mahanty, M.Sc. *Econs.*—S. C. Bardhan, M.A. *Hist.*—N. Sanyal. *Law*—H. S. Ahamed. *Maths.*—S. K. Ganguli, M.A. *Persian and Urdu*—A. M. M. Latif. *Philos.*—M. M. Senapati, M.A. *Physics*—N. Misra. *Sanskrit and Oriya*—K. N. Das, M.A. 24 other Profs., Lectrs., and Demrs.

CUTTACK, *Training College*. L.T.

BANKIPUR, *Bihar National College.* B.A., B.Sc. Principal, and Prof. of *Philos.*—D. N. Sen, M.A. Other Profs.: *Chem.*—B. K. Chowdhry, M.Sc. *Engl.*—S. M. Huq, M.A. *History*—H. C. Rai Chaudhary, M.A. *Maths.*—L. K. Ghosh, M.A. *Persian*—A. Sayed, M.A. *Philos.*—G. P. Hazari, M.A. *Physics*—D. K. Bhattacharayya, M.Sc. *Sanskrit*—S. N. Bhattachaiayya, M.A. 17 other Profs., Lectrs., and Demrs.

MUZAFFARPUR, *Greer Bhumihar Brahman College.* B.A., B.Sc. Principal—W. W. T. Moore, B.A. Dub. Profs.: *History*—R. P. Khosla, M.A., B.A. Ox. *Arabic and Pers.*—A. B. P. Sinha. *Chem.*—R. K. Basu, M.Sc. *Econ.*—B. B. Mukherjee, M.A., B.L. *Engl.*—B. Chatterji, M.A. *Maths.*—K. P. Das, M.Sc. *Philos.*—J. K. Sarkar, M.A. *Physics*—R. C. Sen, M.A. *Sansk.*—S. N. Mazumdar, M.A. 12 other Profs., Lectrs., and Demrs.

BHAGALPUR, *Tej Narain Jubilee College.* B.A., B.Sc. Principal, and Prof. of *English*—S. Sen, M.A. Vice-Principal—I. C. Misra, M.A. Profs.: *Chem.*—H. L. Das Gupta, M.A. *History*—N. M. Acharya, M.A. *Persian*—A. Majid. *Philos.*—B. C. Sinha, M.A. *Physics*—S. N. Banerjee, M.Sc. *Pol. Econ.*—T. N. Basu, M.A. *Sansk.*—K. C. Chakravarti, M.A. 21 other Profs., Lectrs., and Demrs.

HAZARIBAGH, *St. Columba's College.* B.A. Principal, and Prof. of *Eng.*—Rev. A. O. Hardy, M.A. Dub. Vice-Principal and Prof. of *Philos.*—H. G. S. Kennedy, M.A. Dub. Other Profs.: *Chem.*—H. C. Mukharji, M.A. *Econs.*—P. C. Bose, M.A. *History*—J. N. Maitra, M.A. *Maths.*—R. N. Mukherji, M.A. *Pers.*—Md. Muslim, M.A., M.O.L. 4 other Profs.

PATNA *Training College.* B.Ed. Principal—J. H. Thickett, M.A. Camb. Vice-Principal—S. C. Sarkar, M.A., D.Phil., Dip.Ed. Ox. Profs.: W. W. Henderson, M.A., Dip.Ed. Glas.; Saiyid Tahiruddin Ahmad, B.A., L.T.; J. N. Ghosh, M.Sc., B.T.

PATNA *Law College.* B.L. Principal—S. S. Alam, M.A., LL.B. Camb., Bar.-at-Law. Vice-Principal—S. M. Shareef, M.A. Camb., Bar.-at-Law. Profs.: Ragho Prasad, B.A., B.L.; S. N. Sahay, B.Sc., Bar.-at-Law; Shiveshwar Dayal, M.A., B.L. 4 other Lectrs.

PATNA, *Bihar College of Engineering.* B.E. Principal—F. Walford, A.R.C.S., M.I.M.E., O.B.E. Senior Professor—J. Tullis, B.Sc. Glas. 7 Assistant Professors.

(*b*) Admitted to Intermediate Standard

Patna New College, Bihar Sharif Nalanda College, Monghyr Diamond Jubilee College, Cuttack Ravenshaw Girls' High School, Interm. classes.

THE YEAR 1923–24

DEGREES CONFERRED. B.A., 247; B.Sc., 24; B.L., 134; B.Ed., 21.

UNIVERSITY OF RANGOON

VISITOR—THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF BURMA.

PRO-CHANCELLOR—The Hon. U MAUNG GYI, M.A., Barr.-at-Law.

VICE-CHANCELLOR—.....

REGISTRAR—A. CAMPBELL, M.A. Edin., I.E.S.

CONSTITUENT COLLEGES AND THEIR STAFFS, November 1924

UNIVERSITY COLLEGE: Principal—D. J. Sloss, M.A. Liv., I.E.S.

Anatomy and Physiology

Lack, Major L. A. H., M.B., Ch.B. Edin., I.M.S. Prof.

4 Demrs.

Biology

Meggitt, F. J., M.Sc., Ph.D. Birm., I.E.S. Prof.

1 Asst. Demr.

Chemistry

Peacock, D. H., M.A. Camb., M.Sc. Lond., F.I.C., F.C.S. Prof.

Goldsworthy, L. J., M.A. Ox., I.E.S. Lectr.

Venkateswaran, R., M.A. Mad. Asst. Lectr.

Ba, Mg., B.A. Calc., F.C.S. Asst. Lectr.

6 Demrs. and Asst. Demrs.

Economics [Prof.

Jevons, H. Stanley, M.A. Camb., B.Sc. Lond., F.G.S., I.E.S.

Education

Clark, G. F., M.A. Glas., Ph.D. Jena, I.E.S. Prof.

Scott, Miss M. E., M.A. Edin., B.Ed. Edin., M.B.E., I.E.S. Lectr.

Engineering, Civil

Elgood, W. N., B.Sc. St. And., I.E.S. Prof.

English [Prof.

Luce, G. H., B.A. Camb., I.E.S.

Campbell, A., M.A. Edin., I.E.S. Lectr.

Fraser, W. G., M.A. Aberd., I.E.S. Lectr.

Kingsley, Miss M., M.A. Calc., B.T. Calc., B.A. Lond. Lectr.

Htin-Si, L., M.A. Calc. Asst. Lectr.

Jembunathan, S., M.A. Asst. Lectr.

Gopalakrishna, Aiyar P. G., M.A. Mad. Asst. Lectr.

8 Tutors.

Forestry [Prof.

Unwin, R., B.Sc. Lond., I.F.S.

Single, H. S., M.A. Ox.

Geology and Geography

Stamp, L. Dudlay, B.A., D.Sc. Lond., A.M.I.P.T., F.G.S., I.E.S.

History

Hall, D. G. E., M.A. Lond., F.R.H.S., I.E.S. Prof.

Brookes, A., M.A. Camb., I.E.S. Lectr.

Desai, W. S., M.A. Bom., B.A. Camb. Asst. Lectr.

2 Tutors.

Law

Eggar, A., M.A. Camb., Barr.-at-Law Prof.
Bilimoria, J. C., B.A. Bom., Barr.-at-Law. Lectr.
Mya-Bu, Mg., Barr.-at-Law. Lectr.

Mathematics [Prof.

Owen, L. G., M.A. Ox., I.E.S.
De, K. P., M.A. Calc., I.E.S. Lectr.
Haldar, K. P., M.A. Calc. Asst. Lectr.
Ka, Mg., M.A. Asst. Lectr.
Thon, Mg. Po, M.Sc. Asst. Lectr.
2 Tutors.

Oriental Studies

Tin, Pe Maung, M.A. Calc., B.Litt. Ox., I.E.S. Prof.
Cassim, A., B.A. Calc. Lectr. in Pali.
Ba-Kya, Mg., B.A. Calc. Asst. Lectr. in Burmese.
Akbar, Md. Gulam, M.A. Calc. Asst. Lectr. in Persian.
2 Tutors.

Philosophy

Ross, G. R. T., M.A. Edin., D.Phil. Edin., I.E.S. Prof.
Saunders, L. P., M.A. Camb., I.E.S. Lectr.

Physics [Prof.

Ward, K. M., M.A. Camb., I.E.S.
Aiyar, N. C. Krishna, M.A. Mad., I.E.S. Lectr.

Asst. Lectrs. :

Basu, R. M., B.Sc. Lond.
Ramanathan Iyer, K. R., M.A. Mad.
1 Demr. and 3 Asst. Demrs.

Physiology, v. Anatomy

Judson College : Principal—R. L. Howard, M.A.

Biology

Gates, G. E., M.A. Harv.

Burmese and Pali Literature

Tun-Pe, Mg., M.A. Calc.
Chaudhury, R., M.A. Calc. (Pali).

Chemistry and Physics

Witnah, C. H., M.Sc. Chic.
Gleason, P. R., M.A. Harv.
Shivers, Marian E., M.A. Columbia
Scherling, C., M.A. Calc., B.A. Camb.
Basak, B. K., M.Sc. Calc.
Guha, S. C., M.A. Calc.
Ray, D. M., B.Sc. Calc.

English Literature

Gilmore, D. C., M.A., D.D. Rochester.
Crawford, R. N., M A. Chic., B.D. Rochester
Tribolet, L. B., Ph.B. Dennison.
Hunt, Miss H. K., Ph.D. Dennison, B.Sc. Simmons, *Dean of Women.*
Jury, E. M., B.A. McMaster.
Gates, H. B., M.A. Boston.
Tribolet, L. G., B.A. Rockford.

History

Sen-Gupta, S. K., M.A. Calc.
Tapa, James, M.A. Calc.

Mathematics

Van Horn, C. E., M.A., B.D. Colgate.
Anantanarayana Aiyar, P. P., M.A. Mad.
Kangyi, Johnson, B.A. Calc.

Mental and Moral Science and Logic

St. John, W., B.D., Ph.D. Chic.
Howard, R. L., M.A. Harv.
Hla Bu, Mg., M.A. Calc.
Jury, G. S., M.A. Yale, *Vice-Principal.*
Hla-Baw, Mg., B.A. Calc.

GENERAL INFORMATION (v. also p. 500)

This Univ., founded in Dec. 1920, is governed by a widely representative Council consisting of not more than 70 members, which exercises its functions by means of an Executive Committee of 10 members. The Council has the power to reject any act or resolution of the Senate (the academic body of the Univ.) in excess of its powers under the Univ. of Rangoon Act, 1920, and to confirm or reject any resolution presented by it affecting the income or expenditure of the Univ. or of a Constituent College. The Senate consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of Constituent Colleges, the Professors, 3 members of the Council, and not less than 10 lecturers in constituent colleges. Its executive duties are discharged by a Standing Committee. The Act of 1920 was amended in 1924.

An estate of about 450 acres of high and healthy ground, adjoining the Victoria Lakes on the outskirts of Rangoon, has been acquired for the Univ. buildings. Both Constituent Colleges and the Halls of Residence attached to them will be accommodated on the estate, where Univ. teachers will be housed and provision made for playing-fields, and ample room will still be left for other professional and technical colleges.

LIBRARIES.—University, in process of formation; University College, 17,000 vols.; Judson College, 7000 vols.

DEGREES.—B.A. and M.A.; B.Sc. and M.Sc.; B.Sc.Civ.Engin.; B.Sc. Forestry; B.L.; M.B.

DIPLOMAS, in Teaching, in Economics, and in Forestry.

ADMISSION. Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn. or the European High School examn. held by Educational Dept. in English, a Vernacular, Maths., and two optional subjects. Proficiency in English must be shown. The Univ. has access to the High School examination results and classes intending students: A class may matriculate; B class must undergo a preliminary year's study, which is mostly intensive work in English.

FEES for Examinations: B.A., B.Sc., Rs. 30; B.A (Hons.)., B.Sc. (Hons.), Rs. 40; M.A., M.Sc., Rs. 40; B.L., Rs. 40; M.B., Rs. 50.

THE YEAR 1923–24

NEW BUILDINGS. University College—2 hostels, 4 wardens' quarters—accommodation for 224 students, complete equipment, water laid on, roads, electric light, Rs. 4,16,000. Judson College—1 hostel for women students, Rs. 1,30,000.

OTHER DEVELOPMENTS. Negotiations for the recognition of the Agricultural College, Mandalay as a Constituent College began; regulations for B.Sc. in Agr. were adopted.

UNIV. EXTENSION WORK. 14 Public Lectures by Professors and a course for teachers.

DEGREES CONFERRED. D.Litt. (Hon.)—C. O. Blagden, Dean of London School of Oriental Studies. M.A.—5; M.Sc.—1; B.A.—55; B.Sc.—17; B.L.—15.

NUMBER OF STUDENTS enrolled in Constituent Colleges: (1) Univ. Coll., 1043; (2) Judson Coll., 306. Distributed by classes: (1) First 2 years, 646; B.A., 77; B.Sc., 83; M.A., 5; M.Sc., 4; B.Sc. Forestry, 24; B.Sc. Engin., 30; M.B., 30; B.L., 121; Teachers' Dipl., 23. (2) First 2 yrs., 253; B.A., 35; B.Sc., 17; M.A., 1.

*

THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

PATRON—H.E. THE VICEROY OF INDIA.

DIRECTOR—M. O. FORSTER, D.Sc., Ph.D., F.I.C., F.R.S.

PROFESSORS, ETC., November 1923. [No returns received in 1924.]

General Chemistry [Prof.
Watson, H. E., D.Sc. Lond., A.I.C.

Organic Chemistry
Sudborough, J. J., D.Sc. Lond., Ph.D. Heid., F.I.C. (Head of Dept. of Genl. and O.C.) Prof.
Ramaswamy Iyer, P., M.A. Mad. Asst.
Sanjiva Rao, B., B.A. Mad. Asst.

Bio-Chemistry [Prof.
Fowler, G. J., D.Sc., F.I.C., F.C.S.
Malandkar, M. A., M.A., B.Sc. Bom. Asst.
Banerjee, B., M.Sc. Asst.
Srinivasiah, M., B.A. Asst.

Electrical Technology [Prof.
Catterson-Smith, J. K., M.I.E.E.
Grundy, E. L., B.Sc., A.M.I.E.E. Asst. Prof.
Mowdawalla, F. N., M.A., B.Sc. Asst.

Mechanical Engineering
Kann, J. H. C., B.Sc. Asst. Prof.

French and German [Lectr.
Tacchella, C. F. H., M.A. Dub

GENERAL INFORMATION

The object of the Institute, opened July 24, 1911, is to establish Chairs and Lectureships in Science and Arts, especially with a view to the promotion of original investigations and their utilization for the benefit of India, and to provide and to assist in the provision of suitable libraries, laboratories, and all other necessary appliances.

Associateships are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr.—July–Sept., Nov.–Dec., Jan.–March) devoted entirely to research work; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. ***Certificates*** are granted to students who satisfactorily complete approved courses of study. 27 Associateships have been granted.

Students reside in a ***Hostel.*** Messing charges are from Rs. 28 to Rs. 35 p.m.; rent, lighting, and service, Rs. 10 p.m.

PUBLICATIONS. The scientific work of the Institute is recorded in the *Institute Journal*, of which about 15 parts are issued annually.

POSTAL ADDRESS: Indian Institute of Science, Hebbal, Bangalore District. TELEGRAMS—Science, Bangalore.

THE YEAR 1922–23. *Number of Students and other Workers*: Genl. and Org. Chem.—40; Bio-Chem.—20; Elec. Tech.—17. *Current Expenditure*, Rs. 4,62,351.

CEYLON UNIVERSITY COLLEGE, COLOMBO

PRESIDENT—THE GOVERNOR OF CEYLON.
PRINCIPAL—R. MARRS, M.A. Ox., C.I.E.
REGISTRAR—Rev. W. S. SENIOR, M.A. Ox.

PROFESSORS AND LECTURERS, November 1923. [No returns received in 1924.]

Botany
..... Prof.
Le Goc, Very Rev. Fr. M. J., O.M.I., M.A. Camb., B.Sc. Lond., Ph.D. Rome Lectr.

Chemistry [Prof.
Rae, W. N., M.A. Camb., A.I.C.
Chandrasena, J. P. C., Ph D. Lond., D.I.C., A.I.C. Lectr.

Classics
Cameron, D. J., M.A. Ox. Prof.
Senior, W. S., M.A. Ox. Lectr.

Economics
..... Lectr.

English
Smith, Leigh, M.A. Durh. Prof.
Samarawickrema, W. A., B.A. Lond. Lectr.

French and German
Jansz, P. L., M.A. Camb. Lectr.

Geography [Lectr.
Robison, L. McD., B.A. Vict.

Modern History
Pakeman, S. A., M.A. Camb. Prof.

Mathematics
Suntharalingam, C., B.A. Ox., B.Sc. Lond. Prof.
Caspersz, U. D. R., B.Sc. Lond. Lectr.
Gulasekharam, F. H. V., M.A. Madras Lectr.

Philosophy
Cameron, D. J., M.A. Ox. Prof.

Physics
..... Prof.

Sinhalese, Sanskrit, and Pali
Suriyagoda, S. S., B.Litt. Ox. Lectr.

Tamil
..... Lectr.

Zoology
Pearson, J., D.Sc. Liv. and Manc., F.L.S. Lectr.

GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Govt. A College Council of 16 members nominated by the Governor of the Colony advise the Govt. on all important questions connected with higher education.

LABORATORIES. Botany, Chemistry, Physics, Zoology.

TERMS. Oct.–Dec.; Jan.–March; May–July.

ADMISSION to the Ordinary courses is restricted to students who have passed the London Matricn. examn. or obtained exemption from it. Others may be admitted to Special courses on payment of admission fee, Rs. 10.

DEGREE COURSES are provided for the B A., B.Sc. (Economics), of the Univ. of London. By special arrangement the Univ. holds its Honours examn. in Ceylon in Engl., Classics, Hist., Philos., Maths., Chem., and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Med. College (v. *infra*).

ORIENTAL LANGUAGES. Courses are provided in Sanskrit, Pali, Sinhalese, and Tamil.

FEES FOR TUITION. Full Course—Rs. 150 p.a. *plus* Rs. 30 p.a. extra for each Science subject offered. Single Subject: Arts—Rs. 15 per term; Science —Rs. 25 per term.

RESIDENCE. Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m.

SCHOLARSHIPS FOR GRADUATES. The Ceylon Govt. offers 5 of £300 p.a., each tenable for 2 or 3 years in a British Univ.—one for Arts, one for Science, one for Agr. and Forestry, and 2 for Engineering. Candidates must have been resident in the Island for 5 years.

THE YEAR 1922–23. Govt. grant of Rs. 20,000 for purchase of books. ***New posts***: Prof. of Botany, Lectrs. in Economics and in Tamil. Two annual scholarships in Engineering instituted. Buildings formerly occupied by the Royal College were made over to the Univ. College by Govt. ***Resignation***: Prof. A. E. Grant. Several public lectures were given by members of the staff on literary and scientific subjects. *Students*: in Arts, 63 (including women—4); Science, 71; Medical (1st year), 37. Part-time, 6. *Degrees* obtained—B.A. (Lond.), 4; B.Sc. (Lond.), 4.

THE CEYLON MEDICAL COLLEGE, founded in 1870, is recognized by the General Medical Council—v. Appendix XI. A (*b*). It has a staff of about 26 lecturers and demonstrators and over 200 students

KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

PATRON—Sir LAURENCE N. GUILLEMARD, K.C.B.

PRESIDENT OF COUNCIL—A. L. HOOPS, B.A., M.D., D.P.H. Dub., Principal Civil Medical Officer.

PRINCIPAL—G. H. MACALISTER, M.A., M.D., D.P.H. Camb.

TEACHING STAFF, October 1924

[(P.-T.) = Part-time Lecturer.]

Anatomy
Harrower, J. G., M.B., Ch.B. Glas. Prof.
Ponnappa, S. W. Asst.

Bacteriology, v. Path.

Biology
Smedley, N., B.A. Camb. (P.-T.).

Chemistry and Physics
Jamieson, M., F.I.C. Lectr.

Eye Diseases, v. Surg.

Infectious Diseases
Dawson, W., M.B., Ch.B. Glas., D.P.H. Liv. (P.-T.).

Materia Med. and Pharmacy
Crawford, G. W., M.P.S.

Mental Diseases and Medical Jurispr.
Stone, E. R., M.B., B.Ch. Camb.

Medicine [Prof.
Webster, J. S., M.B., B.S., D.P.H.
The Principal Lectr. in Clin. Med.

Midwifery and Gynæcology
English, J. S., B.A., M.D., B.Ch., B.A.O., L.M. Dub. Prof.

Pathology and Bacteriology
Finlayson, G. A., M.A., M.B. Aberd., M.R.C.P. Lond. (P.-T.).
Tham Ying Khow, L.M.S. Asst. in P.

Physics, v. Chem.

Physiology and Pharmacology
Kay-Mouat, J. R., M.A. Ox., M.B., B.Ch., D.P.H., M.Sc. Bris. King Edward VII. Prof.
Nicholas, W. A., L.M.S. Asst.

Public Health
Brooke, G. E., M.A. Camb., L.R.C.S., L.R.C.P. Edin., D.P.H. (P.-T.).

Surgery
Black, K., F.R.C.S. Eng., L.R.C.P. Lond., L.D.S., R.C.S. (Lectr. in Eye Diseases) Prof.
Smith, C. J., F.R.C.S. Edin. (Senr. Surgeon, Singapore) Part-time Prof.

Therapeutics
The Principal

Venereal Disease [Lectr.
Kelly, W., M.R.C.S., L.R.C.P.

GENERAL INFORMATION

This is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Principal Civil Medical Officer as President, advised by a Senate composed of the

professors and lecturers with the Principal as Chairman. Since its foundation 137 licentiates have passed out. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916—v. Appendix XI.

Admission qualifications: (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, *e.g.* London Matricn., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

TERMS. Trinity—June 1 to Aug. 31; Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 7 to March 25.

Composition FEE for complete 6-year course, covering tuition, hospital tickets, and examns. (except fees for re-examn.), $750.

RESIDENCE, ETC. Hostel for 72 students. There is a Students' Union.

THE YEAR 1923–24. Curriculum remodelled to conform with requirements of the G.M.C. Foundation stone of new buildings laid on Sept. 6, 1923. *Number of Students*, 140 (Tamils and other Indians, 61; Chinese, 50; Malays, 4; Eurasians and others, 25). *Licentiates*, 1924, 13.

UNIVERSITY OF HONG-KONG

PATRON—H.M. THE KING.

CHANCELLOR—THE GOVERNOR OF HONG-KONG.

VICE-CHANCELLOR AND PRINCIPAL—WILLIAM WOODWARD HORNELL, M.A., C.I.E.

CHAIRMAN OF CONSULTING COMMITTEE IN LONDON—Sir CHARLES S. ADDIS, K.C.M.G.

REGISTRAR—L. FORSTER, B.A. (acting).

PROFESSORS, LECTURERS, ETC., August 1924

Accounting & Business Practice
Messrs. Lowe, Bingham, and Matthews, C.A. Lectrs.

Anatomy [Prof.
Shellshear, J. L., M.B., Ch.M. Syd.
Wong, R. J., M.B., Ch.M. Syd. Tutor.

Biology
..... Lectr.

Chemistry [Prof.
Byrne, G. T., M.Sc. Manc., A.I.C.

Chinese
Au Tai Tin (Hanlin) Lectr.
Lai Hsi Chi (Hanlin) Lectr.

Education
Forster, L., B.A. Lond. Prof.

Engineering, Civil and Mech.
Smith, C. A. Middleton, M.Sc. Birm., M.I.M.E., A.M.I.E.E. Taikoo Prof.
Fenwick, A., B.Sc., A.M.I.C.E. Lectr.
Morley, C., M.A. Camb. Lectr.
Redmond, F. A., B.Sc. Lond. Prof. of Civil E.
Gittins, W. M., B.Sc. Demr. in E.
Wong Tai Cho, B.Sc. Demr. in Mech. E.
Ip Hin Fong, B.Sc. Demr. in Civil E.
1 Workshop Instructor.

Engineering, Electrical [Prof.
Roffey, M. H., M.Sc., M.I.E.E.
Day, I., A.M.I.E.E. Demr.

English [Prof.
Simpson, R. K. M., M.A. Edin.
Fenton, J., Ph.D. Greg. Coll., Rome Lectr. & Tutor.
Hett, A. S., B.A. Ox. Lectr. & Tutor.

History [Lectr.
Romanis-Lee, J., M.A. Camb.

Mathematics
Brown, W., M.A., B.Sc. Glas., A.M.I.E.E. Prof.

Medicine and Surgery, v. *infra*

Physics
Faid, W., B.Sc. Durham Prof.

Physiology [Prof.
Earle, H. G., M.A., M.B. Camb.
Wong, S. Y., M.Sc., Ph.D. Columbia Tutor.

Political Economy
Hinton, W. J., M.A. Wales Dean and Prof.
..... Lectr.

Political Science
..... Lectr.

Medicine

Hygiene and Pub. Health
..... Lectr.

Medical Jurispr.
Minett, E. P., M.D., M.R.C.S., D.P.H., D.T.M. & H. Lectr.

Medicine
Anderson, J., M.A., B.Sc., M.D. Glas., D.T.M. & H. (Eng.) Prof.
McKenny, C. W., M.D. Dub. Lectr.
1 Asst. to Prof.

Obstetrics & Gynæcology
..... Prof.
Woo, Arthur W., M.B., B.S. Lond., M.R.C.S. Eng. Lectr.
Pillai, D. Kumarasamy, M.B., B.S., L.M. Rotunda Asst. to Prof.

Ophthalmology [Lectr.
Harston, G. M., M.D., D.O. Ox.

Pathology
Wang, C. Y., M.D. Edin., B.Sc. Manc., F.R.C.P. Edin., D.P.H., D.T.M. & H. Prof.

Pharmacology and Therapeutics
..... Lectr.

Surgery
Digby, K. H., M.B., B.S. Lond., F.R.C.S. Eng. Prof. (Dean, Faculty of Med.).
Koch, W. V. M., M.D. Edin. Lectr.
Phoon, S. W., M.B., B.S., M.R.C.S. Eng. Asst. to Prof.

Tropical Medicine
Thomas, G. H., M.D., B.S. Lectr.

GENERAL INFORMATION

The College of Medicine for Chinese, founded in 1887 for the training of Chinese students in Western Medicine, was incorporated under the name of the Hong-Kong College of Medicine in 1907. It had no building of its own, and its teaching was conducted by permission in various hospitals and other institutions. Between 1907 and 1910 an Endowment and Equipment Fund of $1,280,000 was raised for a University to include Engineering and Arts as well as Medicine. The cost of the buildings and preparation of the site—$345,000—was borne by Sir H. N. Mody, the originator of the Fund. Other contributors were the Govt. of China, the Hong-Kong Govt., Swire & Sons, and other firms and Chinese residents of Hong-Kong, Canton, and other places. The Univ. was incorporated in 1911 and formally opened in 1912, when it took over the work of the College of Medicine. The buildings, including class-room accommodation for 500 students, three hostels, laboratories, etc., together with playing-fields, occupy an area of 25 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919–20).

The Court is composed of life, *ex-officio*, and nominated members; the Council of 14-16, including the Chancellor, V.C., Colonial Secy., Univ. Treasr., Deans, Regr., Col. Treasr., Dir. of Educn., 2 Chinese members of Leg. Council, Secy. for Chinese Affairs, Chief Manager in H.K. of H.K. and S.B. Corpn., and a representative of the H.K. Ch. of Commerce. The Senate consists of the V.C., Dir. of Ed., Dean of and 1 other representative elected by each Faculty, Regr., and representatives of the H.K. Coll. of Med.

MUSEUM of Pathology and Trop. Med. LABORATORIES: Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. HOSPLS. in the vicinity available for clinics, 400 beds; Govt. Bacteriological Inst. and Mortuary.

FACULTIES. Medicine, Engineering, Arts.

TERMS. Jan.–March; April–May; Sept.–Dec.

MATRICULATION examn. (framed for use also as a School Leaving examn.) includes (*a*) English, (*b*) Maths., (*c*) Chinese Lang. and Lit., (*d*) Latin *or* a Classical Oriental Lang. other than Chinese, (*e*) Geog., (*f*) a Modern Lang. other than English or Chinese, (*g*) Mandarin, (*h*) Hist., (*i*) Physics, (*j*) Chem., (*k*) Higher Maths., (*l*) Trigonometry, (*m*) Mechanics, (*n*) Drawing. (*a*) and (*b*) are compulsory for all, and (*c*) for all Chinese candidates. It is necessary to pass in 5 subjects, and for the Med. Faculty these must include (*c*), (*d*) or (*f*), and (*e*) or (*h*). Medical students are registered after passing an examn. in physics, chemistry, and biology subsequent to general matriculation.

DEGREES. B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 12 (in Med.—15) terms is necessary; the 5-years' medical course dates from registration as medical student (see preceding paragraph); 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn. for the Master's degree may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience. The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for a Master's degree must work under the direction of the Faculty concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 3 Depts. under 6 "groups" of studies. (*a*) *Pure Arts and Science*: Group 1, Letters; 2, Experimental Science; 3, Social Science. (*b*) *Training of Teachers*: Group 4 (*a*), Science and Maths.; 4 (*b*), General. (*c*) *Commerce*: Group 5, Commercial Training.

FEES for tuition, $300 p.a.; board and lodging, $240; Univ. Union, $15; books and charges for materials, etc., in Labs., about $60. It is claimed that there is no European Univ. where a foreign student can live so cheaply.

RESIDENCE. With the object of "developing and forming the character of students of all races, nationalities, and creeds," it is provided by the Ordinance of Incorporation that all students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

THE YEAR 1924

BENEFACTIONS. Rockefeller Foundation, $250,000 to endow a Chair of Obstetrics and Gynæcology. ORGANIZATION: Dept. of Obst. and Gynæc. established under whole time Prof. CHANGES IN REGULATIONS regarding registration of medical students and the course of study for medical degrees. See above—Matriculation and Degrees. RESIGNATION: D. C. H. Florance, apptd. Prof. of Physics, Victoria U.C., New Zealand. HONORARY DEGREES: Arthur Preece, M.I.E.E., S. W. Tso, and Sir Wm. Brunyate. OTHER DEGREES: B.A., 14; B.Sc., 13; M.B., B.S., 4. STUDENTS: Med., 109; Engin., 57; Arts, 145. One graduate (medical) was awarded fellowship for study in Peking.

APPENDICES

I

REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

Regulations issued with Army Orders for June 1924 provide for Commissions being granted in the Cavalry, R.A., R.E., Royal Corps of Signals, Infantry, Royal Tank Corps, and R.A.S.C., and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities : I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney ; II. Birmingham, Bristol, Durham, Leeds, Liverpool, Wales, Aberdeen, Glasgow, St. Andrews, Belfast, Dublin. Univs. in Group I. have established courses of military study, and their candidates will be commissioned senior to candidates whose qualifications are in other respects equal. The grant of commissions in the Indian Army is limited to candidates from univs. in Great Britain and Northern Ireland. Commissions of accepted candidates will be antedated, according to qualifications as defined in a prescribed scale, to their 20th birthday or to a later date up to 21½ years of age.

Among the necessary qualifications are : Age at least 21 and not 24 on Jan. 15 or July 15 following nomination, unmarried ; British subject and the son of British subjects, and, for British service, of pure European descent.

The regulations give full details of qualifications—general, academic, military, and physical, and a pamphlet (March 1924) on " The Advantages of obtaining Commissions in the Regular Army from the Universities " is also obtainable from the War Office.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

Permanent Commissions in the Royal Air Force. The Air Ministry has provided on lines somewhat similar to Army Regulations for the nomination of candidates for permanent commissions in the Royal Air Force, who are prepared to undertake flying, technical and administrative duties in the General Duties Branch. Officers of this branch undertake all the combatant duties of the R.A.F., and are all required to be competent pilots. The maximum age is 25 on June 1 of the year of recommendation by the Univ. Candidates must have graduated. Graduates of any recognized Univ. of Great Britain and Northern Ireland are eligible for consideration. No special course of study is required, but preference is given to those who have read for a degree in mathematics or scientific or engineering subjects (including aeronautical engineering). Selected candidates will normally be attached during the long vacation to a Flying Unit for a period of 6 weeks on probation. A limited number of vacancies will be reserved for nomination by the self-governing dominions. Applicants from these dominions should

apply direct to their respective governments for particulars of the modified regulations applicable to such candidates.

Further information as to the entry and conditions of service in the R.A.F. is given in Air Publication 904, obtainable through any bookseller or from H.M. Stationery Office, or Air Ministry, Kingsway, London, W.C.2.

Medical Officers. Permanent commissions are given to officers selected from those holding short service commission in the R.A.F. A short service commission is for 3 years (which may be extended to 5 with the approval of the Air Council). The age limit is 28. Full particulars are contained in Air Publication 953.

II

INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C.2.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle-upon-Tyne about the middle of May and November. It embraces: Dictation and short English Composition, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths., Physics, Chemistry, Geology, Stenography. Exemption is allowed to persons who have passed certain other examns., including those numbered in the list on p. 629, 1, 2, 3 (provided the certificate shows the holder to have passed in Maths.), 4, 5, 6, and, provided the standard attained was "pass with credit" in at least 5 subjects, of which one was Maths. (Arith. and Dictation not counting as separate subjects)—7, 8 (*b*), 9, 10, 11, 12, 13, and the Central Welsh Board School Certif. for Intermediate Examn. The minimum age for being articled is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn. may not be taken until 2 yrs. have elapsed since passing the Interm., except that graduates articled for 3 yrs. only may take it 1 yr. after passing the Interm. No person may present himself for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces Advanced Bookkeeping and Accountancy, including Costing and Taxation, Auditing, Partnership and Executorship Law and Accounts, Principles of Law of Bankruptcy and of Law relating to Joint Stock Companies, the Rights of Liquidators, Trustees and Receivers, Principles of Mercantile Law and of Law of Arbitrations and Awards, and as an optional subject, either Banking, Currency and Foreign Exchanges, Actuarial Science, or Economics.

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. Thirty days' notice is required, and late entries will only be accepted up to 15 days on payment of a late fee.

No person may be admitted as *Associate* (fee 10 gs.) who has not passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive Letters: F.C.A., A.C.A.

SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—50 Gresham St., Bank, London, E.C.2. *Branches*: Glasgow, Dublin, Montreal, Melbourne, Sydney, Cape Town, Johannesburg. Members (numbering upwards of 4150) are designated "*Incorporated Accountants.*"

Examinations are held ordinarily in May and Nov. in London, Manchester, Leeds, Cardiff, Glasgow, Dublin and Belfast. 28 days' notice is required. They are also held in Australia and S. Africa.

The *Preliminary* (fee 1½ gs.) embraces English (General Knowledge, including main outlines of Modern Engl. History and General Geog.; Essay; questions testing knowledge and command of Engl.), either French or German or Latin, Maths. Exempting examns.: Matricn. of approved Univs. in the British Empire, and those numbered in list on p. 629, 1, 2, 7, 8 (*a*) or (*b*), 9, 10, 11, 12, 13, 14, 18 (Arts or Science), Army Qualifying, or, if it comprise Arith., Maths., Engl., one Lang., and one other subject—9*a* or 10*a* (Hons.), 16 (First-Class certif.), 19, 23.

The *Intermediate* (fee 2 gs.) embraces Book-keeping and Accounts, including Partnership and Executorship and Cost Accts., General Commercial Knowledge and Comml. Law, Powers and Duties of Liquidators, Trustees, etc.

The *Final* (fee 2½ gs.) embraces, in addition to these, Advanced Accounting; Auditing; Merc., Jt. Stock Co. and Bankruptcy Law; Statistical Methods; Economics.

Service under Articles of Clerkship (after passing or obtaining exemption from the Prelim. examn.) is a condition precedent to sitting for the Interm. and Final examns., subject to special regns. in favour of Clerks to Public Accountants of long service (9 yrs. before admission to the Final). The period of service under Articles is ordinarily 5 yrs., for a graduate of a Univ. of the U.K. 3 yrs. Clerks may sit for the Interm. examn. on the completion of 2 yrs.' service under Articles; for the Final during the 5th year.

Admission to *Associateship* (fee 10 gs.) is open to a Public Acctt., Principal Clerk to a P.A., Acctt. in service of the Govt. or of a corporation or public body, under certain conditions, who has passed the prescribed examns. Admission to *Fellowship* (fee 15 gs.—for Associates, 10 gs.) is open to a Public Acctt. in the U.K. or Overseas Dominions after continuous practice as such for 7 yrs. (in the case of an Associate, 3 yrs.), provided he has passed the prescribed examns. Distinctive initials: A.S.A.A., F.S.A.A.

Publications. Yearbook, 3s.; *Journal*, monthly, 12s. 6d. p.a.; *Examn. Questions*, 1s.

LONDON ASSOCIATION OF ACCOUNTANTS, LTD. (BY GUARANTEE)

Incorporated Jan. 1905. *Address*—87 Temple Chambers, Temple Avenue, E.C.4. *Branches*: 13 in the U.K. and 1 in S. Africa. Members (about 2600) consist of Fellows (F.L.A.A.) and Associates (A.L.A.A.), and are designated "*Certified Accountants.*"

Examinations are held in June and December of each year as follows: Preliminary, Intermediate, and Final. The last embraces: Practical Accountancy; Methods and Machinery of Business; Partnership Law and Accounts; Economics; Company Law; Cost Accounts and Systems of Costing; Executorship Law and Accounts; Rights and Duties of Liquidators, Trustees, and Receivers; Statistics; Auditing; Income Tax Law and Practice. (Entrance Fees: £1 : 11 : 6, £2 : 2s., and £2 : 12 : 6.)

Admission to Membership. It is necessary to pass the Association's examns. and possess at least 5 years' practical accountancy experience in a responsible position.

Publications. Yearbook, 2s. 6d.; *Certified Accountants Journal*, 7s. p.a. (post free).

INSTITUTE OF COSTS AND WORKS ACCOUNTANTS

Incorporated 1919 as a Company limited by guarantee with the object, *inter alia*, of securing a definite professional status by means of a system of exams., etc., for persons engaged in occupations requiring knowledge of the cost of production, manufacture or sale of commodities. *Address*—6 Duke Street, St. James's, S.W.1.

Qualifications for membership as Fellow (F.C.W.A.) or Associate (A.C.W.A.): candidates for admission must be actually in practice as Cost Accountants, must be at least twenty-one years of age and must have had five years' practical experience; provided that (i.) for Associateship a candidate is eligible who has been for 3 years continuously in practice and (unless exempted by Council) has satisfied the Inst.'s examnrs. up to the "Intermediate" standard, and (ii.) for either Fellowship or Associateship a candidate, as to whose experience and qualifications the Council is satisfied, is eligible if he has satisfied the Inst.'s examnrs. up to the "Final" standard.

Persons actually employed in manufacturing concerns may be elected as "Student" members. Such members, if they have not already passed the Inst.'s "Preliminary" examn. or its equivalent, are required, unless exempted by the Council, to pass this examn. and thereafter the Intermediate as a condition of continuing as student members.

Articled Clerks of members of the Inst. are required to have passed or been exempted from the Preliminary examn. and to serve 4 yrs. (a

graduate of a univ. of the U.K.—3 yrs.). Exemption from this examn. is granted to graduates of any Univ. of the U.K., and persons who have passed any of certain examns., among which are Nos. 1, 2, 3, 4*a*, 8(*a*), 9, 10, 16 of the list on p. 629 and, if taken at or below the age of 16, 9(*a*) and 10(*a*); also examns. for Comml. Certifs. of the Ox. and Camb. Schools Examn. Board, Univ. of Manc., London Chamber of Commerce (Higher) or Manc. Ch. of Com. (senior) or certain other examns. Subjects of the Prelim. examn. (fee, ½ g.): Maths., English Essay, Book-keeping, Mechanical Knowledge, and (optional) a Modern Language. Interm. (fee 1 g.): Maths., Economics, Book-keeping, Workshop Knowledge, Costing. Final (fee 1½ gs.): Maths., Mechanical Knowledge, Law subjects, and Costing.

Entrance fees for Fellows, 4 gs.; Assocs., 3 gs.; Annual subs. 3 gs. and 2 gs. (Fees may be increased in 1925.) Publications: *The Cost Accountant*, monthly. Examn. Papers, 1s.

INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address* —Staple Inn Hall, Holborn, London, W.C.1.

Examinations qualifying for membership are held in May of each year, or at such other times as may be prescribed by the Council. Candidates must give 14 days' notice. Applications for examination outside the U.K. must reach the Hon. Secretaries 2 months prior to the date of examn.

Candidates for *Studentship* must have passed: (1) one of the following examns. (v. list on p. 629)—Nos. 3, 13 (or an examn. similar to 3 or 13 at any Univ. in the Empire), 9, 10, or any other examn. approved by the Council; (2) Part I. of the Institute's own Examn. Syllabus (Advanced Algebra, Finite Differences and Elementary Calculus, and Elements of Statistics).

Candidates for *Associateship* must be "Students" and have passed Parts I., II., and III. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 4 Parts of the Syllabus. *Examn. Fees*, 1½ gs. for each Part. Distinctive letters: A.I.A., F.I.A.

THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address* —11 Queen St., London, E.C.4. Membership consists of the members of Local Insurance Insts., of which there are 38 in the U.K. There are also 7 affiliated Institutes in Toronto, Adelaide, Melbourne, Sydney, Perth, Cape Town, and Johannesburg. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I.I.) are held in Feb. and March. Journal published annually.

III

INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—17 Russell Square, London, W.C.1.

Regional Groups have been founded in Birmingham, Manchester, Edinburgh, Liverpool, Leeds, Nottingham (East Midlands), and Sheffield; and are in course of formation at Bristol, Newcastle, East Anglia, Glasgow, Carlisle, Cardiff, Belfast, and Pretoria (South Africa). Monthly lectures for members and associates are held in the towns where Groups have been already founded, and at Montagu House, Whitehall, London. Courses of lectures are also given in connexion with the Universities of Birmingham, Manchester, Liverpool, Edinburgh, and London. Subscription—Members, £2 : 2s.; Associates, 10s. 6d. per annum. The *Journal of Public Administration* is published quarterly (annual subs. 10s. post free), and a members' circular ("Monthly Notes") each month from Oct. to July.

INSTITUTE OF INDUSTRIAL ADMINISTRATION

Founded 1920 to encourage the study of the methods of administration required in industrial undertakings. Hon. Director—Edward T. Elbourne, A.M.I.Mech.E., 77 Eastgate, Stafford. *Registered Office*—102 Belgrave Road, London, S.W.1.

NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY

Founded 1921—for the application of psychology and physiology to industry and commerce. *Address*—329 High Holborn, London, W.C.1. *Director*—C. S. Myers, C.B.E., M.D., Sc.D., F.R.S. A scientific association for studying and practically applying the human factors which enter into industry and commerce. On behalf of firms it conducts investigations into vocational selection, movement study and the influence of rest pauses, lighting, humidity, ventilation, seating, methods of payment, advertisement, etc., on output. In its own laboratories it offers vocational guidance to individuals, based on mental and bodily tests. It provides lectures and practical work suitable for the requirements of the new Academic Diploma in Industrial Psychology in the Univ. of London. It also grants *Research Studentships* (5 in 1924) in those subjects. It has recently received a grant of £6000 from the Carnegie United Kingdom Trust for further research in vocational psychology. *Journal*, quarterly. Training Courses for School Teachers in the principles and methods of intelligence testing are organized.

IV

NATIONAL AGRICULTURAL EXAMINATION BOARD

Appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the Highland and Agricultural Society of Scotland (3 George IV. Bridge, Edinburgh), and including representatives of the Ministry of Agr. and Fisheries and the Board of Agr. for Scotland.

(i.) An examn. in the SCIENCE AND PRACTICE OF AGRICULTURE is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission : a certificate from a recognized Agr. College that his attainments in General Botany and Chemistry, Geology, Physics, and Mechanics justify the candidate's admission ; or evidence of (*a*) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ. ; or (*b*) having passed examn. No. 9 or 10 (v. list on p. 629), with evidence of having continued study of science for at least a yr., and a certif. in Elem. Chem. and Physics and Botany of Group H of the Oxford Higher Local or in Group E of the Cambridge Higher Local examn. ; or (*c*) Interm. Leaving Certif. of the Scottish Ed. Dept., with evidence of having continued study for at least another year, and the Higher Leaving certif. in Science, including Chem. and Botany. Before the Practical Agriculture Papers are taken, candidates must also produce evidence of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations. The subjects of the written papers are Practical Agr. ; Land Surveying and Farm Buildings ; Farm Machinery and Implements ; Agr. Chem., Botany, Book-keeping and Zoology ; Vet. Sc. They may be taken all at one time or 3, 4, or 5 in one yr. and the remainder the next yr. *Fee* (non-returnable) for entire examn., 6 gs. In 1925 the examn. will be held at Leeds Univ. in April ; entries (which should be in prescribed form) close February 23.

(ii.) An examn. in the SCIENCE AND PRACTICE OF DAIRYING is held annually in England and in Scotland for the National Diploma in Dairying (N.D.D.).

Qualifications necessary for admission : (*a*) at least 6 session months' instruction (not necessarily continuous) in practical dairy work at an approved dairy training institution ; also (*b*) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (*a*) ; also (*c*) certificates in prescribed form from a recognized institution or institutions, of attendance on approved courses in Chem., Bacteriology, and Botany, and fitness for admission to the examn. The examn. includes tests of practical skill in Dairying and capacity for imparting instruction to others, as well as tests of the candidate's knowledge.

In 1925 the examns. will be at Reading and Kilmarnock in Sept. Entries (which must be in prescribed form) are receivable at the

addresses given above up to Aug. 8. A candidate may not enter for the examns. both in England and Scotland.

Examn. papers of past years may be had at 6d. a set. A detailed syllabus of subjects of examn. is also obtainable.

NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Scottish Board of Agr., the Dept. of Agr. for Northern Ireland, Leeds Univ., S.E. Agr. College (Wye), Harper Adams Agr. College, Univ. College, Reading, and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., late Principal of Harper Adams Agr. College, Newport, Salop. It holds examns. annually and awards a National Diploma in Poultry Husbandry (N.D.P.).

Qualifications for admission to the Diploma examns. (fee 5 gs.): i. Passing the Board's Prelim. examn. (fee 2 gs.) in Elem. Chem., Physics, Biol., and Maths., or producing other satisfactory evidence, *e.g.* Matriculation certificate, of knowledge of these sciences; ii. Training in Poultry Husbandry in a recognized Teaching Instn. for at least a year; iii. Experience on an approved Poultry Farm for at least a year. The subjects of the examn. are Poultry Husbandry in all branches and, in so far as they relate to this, Agr. and Horticulture, Physiology, Pathology, Chem. and Physics, Building and Appliance Construction, Bookkeeping. The next examn. will be held in Sept. 1925.

Applications receivable by the Secy., National Poultry Council, 20-21 Essex St., London, W.C.2.

INSTITUTIONS FOR RESEARCH IN CONNECTION WITH AGRICULTURE

The Rothamsted Experimental Station, Harpenden, Herts, founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives to the Capital Funds of the Incorporated Society £1 for every £1 raised by it for an approved purpose. The Station includes extensive laboratories for the study of Plant Nutrition and Soil Problems and Plant Pathology, an area of 300 acres of land for the purpose of Farm and Experimental Fields, and a Library of 15,000 volumes.

Provision is made for Post-graduate Research work, and for studies by agriculturists and others on leave from Agricultural Departments in the Empire.

THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING, established by the Ministry of Agric. and Fisheries at Univ. College, Reading, in 1912, is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. Annual Grants are received from the Ministry of Agric. (which has also made Grants to the Capital Funds of the Institute), Ministry of Health, R.A.S. of England, Medical Research Council, and Univ. College, Reading. The Institute is organized in three Depts.—Dairy Bacteriology, Dairy Chemistry, and Dairy Husbandry. *Address*—Shinfield, near Reading.

THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops. The two main branches of the work are (*a*) Crop Improvement, covering field trials throughout the country, the distribution of seed of improved varieties, and at the Potato Testing Station, Ormskirk, the official trials of potatoes for immunity from wart disease ; (*b*) Official Seed Testing Station for England and Wales, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. A course and examn. in the theory and practice of seed testing will be held in the summer of 1925 ; probable fee for course (four to five weeks), £5 : 5s. ; for examn., £1 : 1s. Periodical meetings of Fellows of the Inst. are held for discussion, etc.

RURAL INDUSTRIES INTELLIGENCE BUREAU, 258/262 Westminster Bridge Rd., London, S.E.1., established in 1921 to give advice and help, free of charge, to rural workers, artisans, and craftsmen working independently or in groups, and persons wishing to engage in, or to promote, rural industries and handicrafts. Advice is given as to training, design, material, utilization of waste, trade processes, the use of machinery, commercial conditions, organization of co-operation, etc.

See also pp. 31 (Nat. Fruit and Cider Inst.), 59 and 265 (Anima Nutrition), 191 (Agr. Economics), 224 (Plant-breeding), and . . . . 661.

V

ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834. Incorporated by Royal Charter in 1837. *Address*—9 Conduit St., Regent St., London, W.1.

The Recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

Registration as Probationer, R.I.B.A. A candidate must submit a certificate of passing some recognized Public examn., or other evidence of general education covering required subjects, and, unless he has passed an Entrance examn. in Freehand Drawing at one of the recognized Schools of Arch., evidence in the shape of drawings that he has an elementary knowledge of this subject. A list of the recognized schools is given in the following paragraph and particulars regarding them are given in an explanatory Pamphlet on examns., price 1s. Registration fee, 4 gs.

The *Intermediate* examn. (fee 5 gs.), open to Probationers of at least 19 yrs. of age, tests their progress while engaged as pupil, improver, or assistant in an office, and passing it qualifies for registration as *Student*, R.I.B.A. Exemption from this examn. (but not from the fee) may be granted, provided the work done during the session be submitted to and approved by the Board, or has been previously approved by the external examiners, to Probationers who have attended the necessary courses at one of the following schools : Architectural Assocn., London ; Universities of Cambridge, Liverpool, London, Manchester, Sheffield ; Birmingham School of Arch. ; Armstrong College (Newcastle) ; Leeds Sch. of Art ; The Technical College, Cardiff ; Robert Gordon's Colleges, Aberdeen ; Edinburgh College of Art and Heriot-Watt College ; Glasgow Sch. of Arch. ; McGill Univ. ; Univ. of Toronto ; Bombay Sch. of Art. The R.I.B.A. desires that Students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee 6 gs.) for the *Associateship*, R.I.B.A., is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to at least 4 problems set by the Board, and a thesis in Historical Arch., or in Science as applied to building, or in Design, including Decoration. Exemption from the Final examn., with the exception of that portion which deals with Professional Practice, is given to Students who have completed successfully a Diploma or Degree course covering at least 5 years at the Arch.

Assocn., London, Liverpool Univ., London Univ., Manchester Univ., Robert Gordon's Colleges, Aberdeen, Glasgow Sch. of Arch , McGill Univ.

A *Special* examn. (fee 10 gs.) for the Associateship is held in July and Dec. It is open to architects in practice not less than 25 yrs. of age and Chief Assts. over 30 yrs. of age exempted from the Prelim. and Interm. examns. and from submitting testimonies of study.

Examns. (fee 3 gs.) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held in Oct.

Allied Societies exist in 25 towns in the U.K., in Montreal, Adelaide, Melbourne, Brisbane, Sydney, Perth, Wellington (N.Z.), Cape Town, Durban, Johannesburg, Nairobi, Singapore, and Rangoon.

The R.I.B.A. (*Henry Jarvis*) *Studentship*, £250 for 2 years, tenable at the British School at Rome, is open only to British subjects who are Associates or Students R.I.B.A. Information regarding this and other Studentships and Prizes is given in a pamphlet.

The R.I.B.A. (*Archibald Dawnay*) *Scholarships* are offered for competition among students of Recognized Schools of Arch., and are intended to foster the advanced study of all forms of construction.

The International Congress on Architectural Education. In July 1924 an International Congress on Architectural Education, the first of its kind, was held by the R.I.B.A. Exhibitions of the work of the Schools of Architecture of the principal nations of the world were held. Papers were read on the Past, Present, and Future of Architectural Education in England, France, Italy, and America, and other nations sent articles for inclusion in the Congress Book of Proceedings which contains a complete account of the Congress together with the text of the papers read and the discussions (price 10s. 6d.).

Publications include the *Kalendar*, 3s. 9d., containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each number. *Explanatory Pamphlet on Examns.* 1s. and postage. *Past Examns. Questions*, price 1s. 6d. and postage.

VI

AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE OF THE UNITED KINGDOM

Address—29 Lincoln's Inn Fields, London, W.C.2.

Examinations are held in London and in Belfast annually, the Preliminary (fee 1 g.) to qualify for the grade of *Student*, the Intermediate (fee 2 gs.) for the Grade of *Licentiate*, and Final (fee 3 gs.), or the Direct Final (fee 5 gs.), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

The subjects of the *Preliminary* are English Compn., Maths., Geog., Hist. of England, General Knowledge, one foreign language (Elem. Latin, French, Spanish, Italian, or German), and either Shorthand or Elem. Book-keeping. Exempting examns.: Matricn. of a Univ. in the U.K., Prelim. of Law Soc., Surv. Instn., Inst. C.A., Soc. of Inc. Acctts. and Audtrs., Special Army Ed. Certif., London Chamber of Com. (Comml.), those in the list on p. 629, numbered 7, 8 (*a*) and (*b*), 9, 10, 11, 12, 13, 13*a*, 14, 16. Minimum age, 16.

The *Intermediate* is open to Students and Articled Clerks and others who have gained practical experience. Minimum age, 19. The subjects are Book-keeping, Plans and Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, and 2 out of 5 other subjects. Exempting examns.: London B Sc. (Estate Management) Final, and, as regards some of the subjects, the Interm. B.Sc.; Cambridge B.A. (obtained on completion of Camb. Agric. or Estate Management course). After 1927 this examn. will be open only to those who have passed or been exempted from the Institute's Preliminary Examn.

The *Final* is open to persons who have passed or been exempted from the Interm.; the Direct Final, to persons not less than 25 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are: Valuation, Law of Vendors and Purchasers, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, and two out of a list of 6 other subjects. The Direct Final includes also the following from the Interm. list: Book-keeping, Plans and Mensuration, and Law of Landlord and Tenant.

Minimum age for admission to Student grade, 16; Licentiate grade, 19; Associate grade, 25; Fellow, 30. Candidates must also fulfil specified conditions as to practical experience.

Publications: Regns. and Syllabus with list of Text-books and particulars of Prizes and *Scholarships* (value up to £50), 1s. Last Examn. Questions, 2s.

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W.C.2. Incorporated by Royal Charter. Instruction—

daytime, evening, and by correspondence—in preparation for the examns. of the Auctioneers' Institute, the Surveyors' Instn., the Land Agents' Society, and the Univ. of London (B.Sc. degree). Principal R. Parry, B.Sc. Lond., F.S.I., F.A.I., A.M.I.C.E., Barr.-at-Law. Directors of studies in Urban and in Rural Science. 16 other Lectrs. and Instrs. 18 Visiting Lectrs.

THE LAND AGENTS' SOCIETY (INCORPORATED)

Address—12 Little College Street, London, S.W.1.

Qualifications for (1) Fellowship: Having passed the Society's examns. and being suitable in other respects (position and experience). The Council have special dispensing powers to elect as Fellows, without examn., Land Agents of exceptional standing and experience. (2) Qualified Associateship: Having passed the Society's examns. and having had at least 2 yrs.' practical experience other than as a pupil paying a premium. (3) Associateship: Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

Examinations annually in March. Entries up to Dec. 1. Fee for each Part, 4 gs. Part I. comprises Agric. (Elementary), Surveying, Agr. Law (Elem.), Taxation and charges on Land, Building Constn., etc., Forestry, Book-keeping. Part II. is of an advanced character to test practical knowledge. (Syllabus, 1s.)

Journal, 2s. 6d. monthly (members, 1s.).

VII

THE INSTITUTE OF BANKERS

Founded 1879. *Address*—5 Bishopsgate, E.C.2. Local centres in Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cardiff, Derby, Ipswich, Leeds, Leicester, Liverpool, Newcastle-on-Tyne, Nottingham, Plymouth, Sheffield, and Swansea. Subscription ½ g. to 2 gs. p.a.

Qualifications for election to Associateship: (*a*) 10 yrs.' service in a Banking Establishment, or (*b*) passing approved examns., or (*c*) being a graduate of a University and on the staff of a Banking Establishment. Ordinary members are elected from the staff of any Banking Establishment on the Council's list. Associates by examination may add to their names or signatures, " Cert. A.I.B."

Examinations, open to members only, (i.) For the Associate Certificate, held in April in London, the provinces, and abroad. Latest entry date —end of Feb.* Subjects: Practice and Law of Banking, Economics, Engl. Compn., Comml. Geog., Foreign Exchange; optional—French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over not less than 2 yrs. Examns. *exempting* from Part I. in Practice and Law,—examns. for B.Com. of Bombay or Lucknow with Banking as special subject; in Econs.,—examn. by Prof. Knoop at Univ. of Sheffield. Certain certificates obtainable in Manchester, Leeds, Birmingham, Scotland, and Ireland are also recognized. (ii.) For Diploma in French, Spanish, Portuguese, Italian, and German, held annually in the spring. *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma examns. *Classes* in preparation for the Language examns. are held by the Inst., and in preparation for all subjects by the local centres.

Courses of *Lectures* in Banking and kindred subjects are given during the winter in London and some provincial towns. *Library* (lending), 8000 vols. *Journal* monthly, Oct. to June, 1s. 6d. (15s. p.a., post free). *Examn. Questions* (1922, 1923, and 1924), 6d. each part.

* For members outside Europe; end of Jan.

VIII

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library* of 3000 vols. *Laboratories*, available for use for examination purposes by other institutions as well as for the I.C.'s own examns. *Appointments Registers* of Fellows, Associates, Registered Students, and Laboratory Assts.

Studentship. Minimum age, 16. Annual subs., 10s. A candidate for admission must have passed an approved Prelim. examn. of Univ. matricn. standard in English, Elem. Maths., an approved foreign language, and either a second lang. or one of the following: Higher Maths., Engl. Hist., Geog., Bot., Chem., Geol., Mechanics, Physics, Zool., and must be undergoing a course of preparation and training for the practice of Chemistry in one of the teaching institutions recognized by the Council, or as a pupil of a Fellow of the Institute in a lab. or works approved by the Council. The approved Prelim. examns. include those in list on p. 629, numbered 7, 8 (*a*) and (*b*), 9, 10, 11, 12, 13, 13*a*, 14, 16, 18, 22; any examination admitting a student as a matriculated student of any University approved by the Council, and other corresponding Entrance examns. approved by the Council. The candidate should have passed in the compulsory subjects at one examn.

The institutions recognized for the training of candidates for the Examns. of the I.C. are those in connexion with the Univ. of London shown on pp. 99, 165—(U.), (K.), (Im.), (Bk.), (EL.), (2), (5), (8), (10) (evening), (11), (12), and East Ham Tech. Coll.; Armstrong Coll., Newcastle; Constituent Colls. of Wales and of N.U.I.; all other Univs. in the U.K.; Univ. Colls., Exeter, Nottingham, Reading, and Southampton; Belfast, Birmingham and Blackburn Munic. Tech. Schools, Bradford City Tech. Coll., Huddersfield Tech. Coll., Leeds Central Tech. Sch., Loughborough Tech. Coll., Salford Royal Tech. Inst., Cardiff Tech. Coll., R. Tech. Coll. Glasgow, Heriot-Watt Coll., Paisley Tech. Coll., R.C.Sc.I.; Overseas Univs.—McGill, Queen's Univ. (Ontario), Toronto, Adel., Melb., Syd., W. Aust., Univ. of N.Z., Cape Town, Univ. of South Africa—Constituent Colls., Stellenbosch.

The compulsory subjects of training are Chem., Physics, and Maths., the course in Chem. extending over 4 yrs. Evening class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other examns. is required.

The A.I.C. examn. in General Chemistry (inorganic, organic, and physical), fee 5 guineas, occupies 6 days, including 4 days of practical

Chemistry, and is open to students who have completed the prescribed training or have obtained a degree including the necessary subjects, and worked for a further year in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem. for 8 yrs. The A.I.C. may be granted (without examn.) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in laboratories or works. The Institute recognizes the Final B.Sc. with 1st or 2nd Class Hons. in Chem. of all Univs. of the U.K., of McGill, Toronto, Adelaide, Melb., Syd.; the Final M.A. of the Univ. of Cape Town with Chem. as principal subject, and the Final B.A. of Toronto with 1st or 2nd Class Hons. in the graduating Dept. of Chem. and Mineralogy. Applications from candidates having diplomas of a specialized character will be decided on their merits. Entrance fee, 2 gs. Annual subsn., 1½ g.

The F.I.C. examn., fee 10 gs. (for Associates, 5 gs.), occupies at least 5 days in any one of the following branches: Inorganic with Sections, Mineral Products, Metallurgy, Manufactured Products; Physical; Organic; Agricultural; Foods and Drugs and Water; Bio-Chemistry; Chem. Engineering. It is open to Associates of 3 yrs.' standing; in exceptional cases to other candidates who have been systematically trained and had considerable experience. The F.I.C. may in exceptional circumstances be granted without examn. to Associates of 3 yrs.' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, 5 gs. Annual subsn., 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of national certificates in chemistry to students in technical schools and colleges in England and Wales (Rules 100, 1921, 2d.). Under this scheme the Institute in conjunction with the Board approves schemes of training submitted by the technical schools or colleges, for the award of certificates for part-time and full-time grouped courses, including in addition to chemistry suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certifs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. Courses for Full-time Course certifs. are suitable for students who have attended a Secondary School up to the age of 16 yrs., and extend over at least 3 yrs. for the certif. in Chem., and at least 1 yr. for the certif. in Applied Chem. They include physics, maths., and one or more modern languages, and may include other cognate subjects. Certifs. are awarded in Chem. and in Applied Chem. Admission to the course in Applied Chem. is restricted to students who have satisfactorily completed a full-time course in chemistry, or other course approved by the Inst. and by the Board.

The Council of the Inst. will consider at a later date whether and how far the training and the Higher certifs. should be recognized as qualifying for admission to the examn. for its Associateship.

Similar arrangements for the award of Part-time Course National Certificates have been concluded with the Scottish Education Department.

Publications. Register of Members; *Regns. for Admission*; *Examn. Papers*, 1s. a set; *List of Official Chemical Appointments*, 5th edition, Jan. 1924, 3s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects.) *Journal and Prodgs.*, 6 parts annually, 2s. each; *History of Inst.*, 15s.; *Lectures* (monographs on various industries—Branches of chemical practice, etc.) at various prices.

CHEMICAL SOCIETY

Address—Burlington House, London, W.1. Professional qualification not required. Entrance by ballot (fee £3), annual subs. £3. Library, 28,000 vols. Monthly Journal and Abstracts. Annual vol. of Reports by eminent men on recent progress. Research Fund from which grants are made (in 1923 they amounted to £904) for purchase of special materials for research.

IX

INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address* —Great George St., Westminster, S.W.1. *Telegrams*—Institution, London.

Examinations, (i.) Preliminary and (ii.) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb. 28 and Aug. 31. The April Prelim. and Oct. A.M. may also be held, the former in Manchester, Glasgow, and Newcastle-upon-Tyne, the latter in the King's Dominions overseas. (i.) may also under certain conditions be held overseas.

For admission to (i.) nomination by a corporate member is necessary, and conditions relating to practical training have to be fulfilled. It includes English, Maths., and 2 (which must not both be languages) of the following subjects: Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span., Port., Dutch, Hindustani, Russian.

Admission to (ii.) is open to (*a*) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 21 and 26, and (*b*) persons of at least 25 yrs. of age who have passed or are exempt from (i.) and are in other respects (training, experience, etc.) qualified for election into the Institution. It includes papers in (A) Mechanics, Strength and Elasticity of Materials, *either* Theory of Structures *or* Theory of Elec. and Magn.; (B) 2 out of 9 other subjects; and (C) Engin. Drawings, Specifications, and Quantities, and, unless candidate has previously qualified therein, a modern Foreign Lang.

For admission as *Student* age must be between 18 and 25, and candidate must be recommended by a corporate member under whom he is or has been in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate* Member must satisfy the Council as to his training and experience, and must, unless exempted, pass (i.) and (ii.). Exemption from (i.) is granted to graduates of any Univ. of the Empire, and Whitworth Scholars and, subject to provisos, persons who have passed certain school and matriculation examns. in Great Britain and Ireland, Canada (McGill Univ.), Australia, New Zealand, and South Africa. Exemption from sections (A) and (B) of (ii.) is granted for the following degrees if taken after 3 yrs.' study in the several Univs. in accordance with their regns.: Oxford B.A. with Hons. in Engin. Sc. Final Hons. Sch.; Camb. B.A. Hons. Mech. Sc. Trip.; B.Sc. in Engin. of Edin., Glas., St. And., Belf., S. Africa, and Cape Town; B.A.I. of Dublin; and, subject to certain qualifications, engineering degrees of all the other Univs. of England and Wales, and of McGill, Adelaide, Melbourne, Queensland, Sydney, and New Zealand.

Members and Associate members are entitled to the designation *Chartered Civil Engineer.*

Publications. Report on Methods of Educn. and Training of all Classes of Engrs., 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d.; *Report of Confce. on Educn. and Training*, June 1911; Papers and Reports on Technical Subjects.

INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter 1921. *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—Voltampere, Phone, London.

Examinations are held in London and other centres in Great Britain twice annually, namely, in April and October, of candidates for *Associate Membership*. Applications should reach the Secy. not later than Feb. 1 and Sept. 1 respectively. Examns. may also be held abroad at the discretion of the Council. Part I. of the examn. includes English essay or translation into English from French, German, Italian, or Spanish; Applied Mechanics, Electricity and Magnetism; and either Heat, Light, and Sound or Chem. Part II. consists of papers on technical subjects only.

A candidate for the Associate Membership is required, unless exempted, to pass the examn. or to present a thesis, paper, or other contribution to Electrical knowledge. He must also be at least 25 yrs. of age or have been a student of the Institution for at least 3 yrs., must be engaged in one of the branches of El. Eng., and satisfy the Council as to his experience, etc.

Exemption from Part I. of the examn. is granted to candidates who have passed an Intermediate examn., including maths. and physics, of any Univ. in the U.K. or Colonies, and exemption from the whole of the examn. to persons who have obtained: any Engineering degree in Elec. Eng. subjects of any Univ. in the U.K. or the Colonies; Whitworth Scholarship; Diploma in Engin. of R.C.Sc.I. or (in E.E. subjects) of Univ. of Liverpool; Diploma or Certif. in E.E. of the City and Guilds (Engin.) Coll., or King's Coll., London; Diploma in E.E. of Univ. Coll. London, Faraday House, Heriot-Watt Coll. Edin., Roy. Tech. Coll. Glas., Armstrong Coll., Technical Coll. Bradford, S. African Coll.; Day Course certif. in E.E. of Finsbury Tech. Coll.; 4 yrs.' E.E. Day Course certif. of Northampton Polyt. Institute, London; Diploma in E.E. of the Battersea Polytechnic; Honours Diploma of Loughborough Coll.; Certif. of Technology in E.E. of Manc. Municipal Coll. of Tech. or Inst. of Science, Bangalore, India. The Final or Hons. grade certif. in E.E. of the City and Guilds of London Institute exempts from Part II.

National Certificates and Diplomas are awarded by the Institution and the Board of Education jointly on lines similar to those for Mechanical Engineers, v. *infra.*

INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. *Address*—Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—Mech. Parl., London.

Examinations are held in London and at provincial centres in April and Oct., and at centres overseas in Oct.: (i.) *Studentship* (minimum age, 16), including papers in English, Elem. Maths., Elem. Mechanics, and either Physics or Chem. (ii.) *Associate Membership* (A.M.I.Mech.E.) open to students of the Instn. (minimum age, 20), *or* candidates for Graduateship over 21 and under 30 who intend to become Assoc. Members, and for whose regular training as M.E.'s satisfactory arrangements have been made, *or* other candidates (minimum age, 27) duly proposed for election and permitted to take the examn. The examn. includes a Modern Lang., Applied Maths., Physics and Chem. Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject, also the Economics of Engineering.

A candidate for election as *Graduate* must, unless exempted (*see below*), have passed examn. (ii.), and have received or be receiving regular training as a Mechanical Engineer, and have received or intend to obtain sufficient practical and scientific training to fit him for employment in a responsible position. Minimum age, 21.

A candidate for election as *Associate Member* must be a practising Engineer at least 27 yrs. of age. The passing of the A.M. or equivalent examn. is an indispensable qualification up to the age of 33, and he must, in addition, have been regularly trained as a M.E. and have had sufficient practical experience in the direction or design of Engineering work.

Examns. exempting from (i.)*: Graduateship of any Univ. in the Empire; any of those on p. 629 numbered 3, 4 (Engin.), 5, 6 (provided either Mechanics or Chem. is covered by the Certif.), 7 (provided it has been taken by an Internal student of Birm., Leeds, Liv., Manc., or Sheff., and a Pass with Credit obtained in Engl. Comp. and Lit., Maths., and 2 of Mechanics, Physics, Chem.), 8 (*a*) (provided candidate passed in Physics either as a Group or as a Subsidiary subject—not in combination with Chem.), 9 or 10†, 11 (if covering requisite subjects of Graduateship examn., v. *supra*), 13‡, 13 (*a*), 14†, 15 (*a*) (Engin.), 15 (*b*) (Engin.), 15 (*c*), 17 (provided a foreign language was taken), 18, 19†, 20 (Engin.), 21 (if including English, Hist., Geog., Maths., and either Nat. Philos. or Physics), 22; Matricn. (Engin.) of Birm., Liverpool, or Hong-Kong; S. Africa Matricn.; Instn. of C.E. Studentship; Naval Cadets passing-out; Whitworth Scholps. and Exhibns.

Examns. exempting from (ii.): Engineering Degrees of any Univ. in Gt. Britain (including War B.Sc. (Eng.) Lond.), Ireland, British Dominions, or India, except such as may be specifically excluded;

* Revised list of exemptions received too late for press.

† If the certif. covers a physical science subject.

‡ If the certif. covers Elem. and Adv. Maths., Hist., and Geog., and either Mechanics or Chem. or Elem. Physics.

Camb. B.A. Hons. in Eng. and, if Spl. examns. in Eng. Sc. and in either Chem. or Physics were passed, or under new Regulations, Engineering I. and II., with another subject from a list, the ordinary B.A.; Manc. Certif. in Technology, Mech. or El. Eng.; Eng. Degree of a Foreign Univ. if recognized by the Council; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London; Dipl. or Higher Certif. (3 yrs.' course) of City and Guilds of Lond. Inst. if taken by matricd. student; Final Dipl. in Mech. or El.E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course; R.N. examn. qualifying as Lieut. (E.); R.N. College Prof. Certif. for Constructors; Inst. C.E., Assoc. M.; Whitworth Scholps. and Exhibns. The above do not exempt from the paper on the Economics of Engineering. A degree in Commerce of a British Univ., however, exempts from this paper.

National Certificates and Diplomas are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schools and Colleges (v. Board of Education, Rules 106, 1921, 1d.). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching within the limits of the subjects covered by them the standard of University work. Full-time courses are also classified as *Senior* (for Secondary School students aged 16) and *Advanced* (for Secondary School students aged 17 or 18 or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced part-time courses). The courses must extend over at least 2 yrs. and the senior part-time course should normally extend over 3. The Certifs. and Diplomas relating to Senior and advanced courses respectively are known as *Ordinary* and *Higher*. The *Higher* Certifs. and Diplomas exempt candidates from certain subjects of the Associate membership examn.

ROYAL AERONAUTICAL SOCIETY

Founded 1866. *Address*—7 Albemarle St., London, W.1.

Membership is of two categories—technical (Students, Associate Fellows, and Fellows) and non-technical. *Associate Fellowship* (A.F.R.Ae.S.) is reserved for those who have attained to an acknowledged position in the science of aeronautics; *Fellowship* (F.R.Ae.S.) for those who have attained to considerable eminence. Annual subsn. 1 g., 4 gs., and 6 gs., according to class. Entrance for Assoc. Fellows and Fellows, 3 gs. and 5 gs. *Library*, including large recent acquisitions due to grant from Carnegie U.K. Trust, available to non-members through the medium of the Central Library for Students, 9 Galen Place, W.C.1. *Lectures*, fortnightly in winter. *Publications*, "Journal" (monthly) and "Transactions" (occasional).

INSTITUTION OF AUTOMOBILE ENGINEERS

Incorporated 1907. *Address*—Watergate House, York Buildings, Adelphi, W.C.2.

Qualifications for (1) Ordinary Membership (M.I.A.E.): minimum age, 25; having occupied during a sufficient period a responsible position in connexion with the practice of, or otherwise proved thorough knowledge of theory and practice of Automobile Engineering; (2) Associate Membership (A.M.I.A.E.): min. age, 23; having been trained as Engineer and subsequently employed for at least 2 yrs. in practice and science of A E. and being actually so engaged. Persons suitably qualified may also join as graduates, associates, or affiliates. Annual subsn. 1 g. to 4 gs. according to class. Prizes up to £25 for Papers by Graduates.

INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—Abbey House, Victoria Street, London, S.W.1.

Membership (M.I.Chem.E.) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training, and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A.M.I.Chem.E.): candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for. Subscriptions of "students," graduates, and corporate members range from ½ g. to 5 gs.

INSTITUTION OF GAS ENGINEERS

Founded 1863. Incorporated 1902. *Address*—28 Grosvenor Gardens, Westminster, S.W.1.

In 1923 a scheme for awarding grouped course Certificates, Ordinary and Higher, for success in Part-time day or evening courses, on lines similar to those for National Certificates in electrical and mechanical engineering (v. *supra*), was adopted with the approval of the Govt. education authorities of Great Britain and Ireland. Provision has also been made for granting *Diplomas* in Gas Engineering and in Gas Supply for success in an examination. There are not at present any examns. for admission to membership of the Institution.

THE INSTITUTE OF MARINE ENGINEERS, INCORPORATED

Established 1889. *Address*—85 The Minories, Tower Hill, London, E.1.

Membership open to Engineers holding First or Second Class Sea-going certificates or those holding responsible or qualifying positions

and engaged in the science or practice of Engineering or shipbuilding; Associateship, to persons so engaged and at least 21 years of age; Graduateship, to those receiving training in such science or practice who have completed one year of such training; Student Graduateship, to those who have attended Technical classes for a year, are training for such science or practice, and have passed the Institute's examn. The examn. (fee, 2s. 6d.) is held in London and the provinces in April in the following subjects: Theoretical Mechanics, Heat and Heat Engines, Machine Constn. and Drawing, Applied Mechanics, Maths., English, Elec. Engin. Entrance fee, 10s. to 30s. and annual subsn., 5s. to £1 : 11 : 6 according to grade of membership.

Library (over 3000 vols.) and Reading Room. Lectures during winter session. Gold Medal and other awards for Essay competitions.

Lloyd's Register Scholarships: Three of £100 p.a. tenable for 3 yrs. in a University or College (day classes), open for competition, by examn., to British subjects, aged 18-23, who are Graduates or Associates of the Inst., apprentices or junior engineers, not necessarily connected with the Inst., who have served at least 2 yrs. in a commercial engineering workshop and until the time of application have been employed at engineering either ashore, afloat, or at College with a view to entering upon the business of Marine Engineering. The examn. is held about end of May each year in various centres to suit the residences of candidates in Great Britain.

INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter 1910. *Address*—5 Adelphi Terrace, London, W.C.2.

Principal qualifications for Membership: minimum age, 30; having served apprenticeship in naval architecture or marine engineering and subsequently been engaged in such occupation and having held a post of primary responsibility for 5 yrs. or more. Qualifications for Associate Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates 25, Students 18-25. Entrance fee and annual subsn., 2 gs. each, except for students, who pay subsn. 15s. p.a. and no entrance fee. Distinctive letters, M.I.N.A., etc.

Scholarships in naval architecture and marine engineering: upwards of 15, varying in value from £75 to £150 p.a., offered for competition open to students and apprentices in firms engaged in shipbuilding industry and Royal dockyards; two for post-graduate research in naval architecture (value £250 p.a. and £150 p.a. respectively) are awarded on recommendation of Univ. authorities.

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 4000 vols., comprising principal works on shipbuilding, ancient and modern. Transactions, issued annually, constitute a permanent record for past 60 yrs. of all important developments in shipbuilding and marine engineering: £3 : 3s. for current

volume (issued free to members), £2 : 2s. to 10s. 6d. for earlier numbers. Total membership about 2900, including many foreign naval architects of eminence.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS

Founded 1884. Incorporated under Companies Acts, 1908–17. *Address*—Bolbec Hall, Newcastle-on-Tyne.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*). Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough.*

Scholarship in shipbuilding, marine, mechanical, or electrical engineering of the value of £100 awarded annually upon the results of an examn. held in Sept.

Library containing over 5000 books on engineering and shipbuilding subjects. Reading Room receiving regularly 70 British, foreign, and colonial periodicals. Transactions issued in 8 Parts since 1884. Price of Parts, 5s. each. Annual volume, 25s. Papers published also in excerpt form usually 5s. per copy, with discussion, correspondence, and author's reply.

INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857. Incorporated 1871. *Address*—Elmbank Crescent, Glasgow.

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*). Distinctive letters, M.I.E.S., etc. The Institution reciprocates with the North-East Coast Institution in regard to the use of premises and attendance at meetings. It exchanges transactions with 79 scientific societies and receives in exchange 93 periodicals. It issued recently a comprehensive *Report on the Education of Engineers.*

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890. *Address*—92 Victoria Street, London, S.W.1. A Constituent Institution of the Joint Engineering Council.

Qualifications for Membership (M.Inst.M. and Cy.E.) : minimum age, 25 ; either holding a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or holding a permanent appointment as Deputy Engineer

or Surveyor or the like and having passed the examn. of the Instn. or obtained equivalent Degree or Diploma, and in the case of deputies, etc., testimony of professional ability and experience justifying election. Qualifications for Associate: Membership (A.M.Inst.M. and Cy.E.); minimum age, 22; having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineer Asst. or Resident Engineer or the like under a Public Authority; and having passed the examn. of the Instn. or satisfied the Council that he has equivalent engineering qualifications. A candidate for election as student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articled pupil to or hold an approved appointment with an Engineer or Surveyor to a Public Authority.

Entrance fee for Member and Assoc. Member, 1½ g., £1 : 5s.; subsn., 2 gs., 1½ g. Student's subsn., 1 g.

Examinations are held in London in April and Oct. Examns. are also held in Scotland, Ireland, India, S. Africa, and other parts of the Empire. Applications receivable up to Nov. 1 and May 1. Three certificates are awarded: (*a*) Testamur for general proficiency in work of a local govt. engineer and surveyor; (*b*) certificate in Town Planning; (*c*) certificate in County and Highway Engineering for specialized knowledge of road and bridge engineering and highway management and administration.

Qualifications for admission to the examns.: minimum age, 21; certificate of having passed the matricn. examn. of some University in the British Empire or an Examn. of similar standard approved by the Council; fees—(*a*) 4 gs., (*b*) or (*c*) 1½ or 3 gs.

Inquiries about examns. in India and S. Africa may be addressed to M. Lea, Chief Engineer, Municipal Office, Karachi, India, and T. W. Stainthorpe, Irrigation Dept., P.O. Box 399, Pretoria, Transvaal, respectively.

Publications: *Journal*, fortnightly, 2 gs. p.a.; Town Planning Conference 1913, 10s. 6d.; Handbook containing lists of Members, Regns., etc., 5s.; and several others.

INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908, and incorporated 1909 as "The Concrete Institute." *Address*—Abbey House, Victoria Street, London, S.W.1. *Telegrams*—Coninst, Sowest, London. Branches (4): Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties.

Admission to the class of Member is open only by examn., through the Graduate and Associate-Membership classes. Admission to Associateship is direct, but candidates must be Fellows either of the R.I.B.A. or Society of Architects, or must be of equivalent professional standing. Distinctive initials of members, etc., M.I.Struct.E., etc.

Publications: *The Structural Engineer*, monthly, 1s. 2d. post free; Yearbook, 3s. 8d. post free; numerous books and reports on technical subjects.

X

THE BAR IN ENGLAND AND WALES

THE right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows:

Admission of Students. The conditions include: (i.) having passed any examn. held by any Univ. in the British Dominions, approved by the Council of Legal Educn., which entitles to a degree or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education; (ii.) satisfactory evidence of good character; (iii.) declaration that the candidate will not "directly or indirectly apply for or take out any certificate to practise, directly or indirectly, as a Pleader or Conveyancer or Draftsman in Equity, without the special permission of the Masters of the Bench," and is not and does not "directly or indirectly act in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or "in any capacity similar to any of those . . . otherwise than as. . . ." The Schedule of approved Prelim. examns. includes those numbered in the list on p. 629, as 1, 2, 3, 5, 6, 8 (*a*) (*b*), 9 or 10 (subject to provisos), 18 (according to standard applicable to students whose native language is English), 20, 21. The Council may add others, and the Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement.

Keeping Terms. This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

Education and Examination. Systematic instruction is provided under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Jurisprudence, Legal History, and Equity. Reading in the chambers of a Barrister or Pleader for the purpose of studying the practice of Law is recommended, but not compulsory. Four examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Criminal Law, (4) Real Property and Conveyancing *or* Hindu and Mohammedan Law *or* Roman-Dutch Law, (5) Common Law, (6) Equity, (7) Law of Evidence and Civil Procedure, (8) General Paper on 5, 6, and 7. A student who has passed an examination in Roman Law, forming part of a qualifying examination for a Univ. degree, may be excused the examination in Section 1. Sections 1 to 4 (constituting Part I.) may be taken separately (fee, ½ g. each); 5 to 8 (the Final examination) must be taken together (fee, 2 gs.)

after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certificate of Honour is granted to those in Class I. at the Final examination. Prizes of £50 each may be awarded for the best students (not over 25 yrs. of age) in Sections (2) and (3), and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (not over 25 yrs. of age) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any Terms, not exceeding 2, that may remain to be kept by him.

Calls to the Bar. Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examinations, etc., are allowed to Scottish Advocates, Irish Barristers members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils of High Courts in India, certain Civil Servants exercising judicial functions abroad, and to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England* (including interruptions caused by war service).

Fees. On admission: application, 1 g.; stamp duty, £25; lecture fee, 12 gs.; admission fees, £20 or £21. On Call: stamp duty, £50; composition for annual dues, £12; call fees, £38 (Gray's), £40 (Lincoln's) £50 (Middle or Inner).

SOLICITORS IN ENGLAND AND WALES

Examinations are held by the LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examination at conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Act, 1877) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts or Laws and persons who have passed matricn. or other corresponding examns. of any Univ. of Great Britain or Ireland or examns. exempting therefrom; to Utter Barristers in England; and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns.

Service under Articles (stamp duty, £80) is normally for 5 yrs. This may be reduced : (1) to 3 yrs. for graduates in Arts or Laws or Science of any Univ. of the U.K., English Barrister of less than 5 yrs.' standing, or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland ; (2) to 4 yrs. for persons who have (*a*) passed examns. Nos. (v. list on p. 629) 1, 1*a*, 1*b*, 2, 3 (1st Division), 4*a*, 6 (1st Division), 13 (with Hons.), 24, or an approved Higher Certificate examn. and have fulfilled certain conditions in connexion therewith, or (*b*) before entering into Articles attended for 1 yr. the approved curriculum of study at the Law Society and complied with certain regulations in connexion therewith, or (*c*) before entering into Articles passed examn. No. 6 (Latin being taken), and subsequently attended, to the satisfaction of the Univ., the curriculum for the Interm. LL.B. of Leeds, Liverpool, Manchester, or Sheffield, and passed the Interm. LL.B. examn.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service, is held in March, June, and Nov. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (i.) before or after entering into Articles have passed the examn. for the B.C.L. or LL.B. at any of the Univs. of England (except Bristol) and Wales or at the Univ. of Dublin ; or (ii.) before entering into Articles have taken Honours in the Final Honour School of Jurispr. at Oxford or in the Law Tripos at Cambridge. Exemption from the whole of this examn. in consideration of circumstances connected with the war is obtainable under certain conditions (v. sec. 2 of Solrs. Act, 1918).

The *Final* examn. (fee, 10 gs.) is held in March, June, and Nov. Prints of the Questions set at this and at the Interm. are obtainable from the Law Society.

THE SOLICITORS ACT, 1922. Section 2 provides that a person articled to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies the Law Society that he has, during a period of one year, complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at any Univ. in the U.K., after passing a Final Examn. in law at such Univ. ; or (2) applies to be admitted to the Law Society's Final Examn. after satisfying the requirements of Sect. 4 of the Solrs. Act, 1860. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy the Law Society that such attendance is for geographical or other reasons impracticable.

Provided and Approved Schools. The Society's Law School in London ; the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (Armstrong College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester).

XI

MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

A. MEDICAL QUALIFICATIONS

Address of the Registrar, General Medical Council—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Eusroad, London. *Addresses of Registrars of Branch Councils*—20 Queen St., Edinburgh; 35 Dawson St., Dublin.

No person is recognized by law as a duly qualified Medical Practitioner in Great Britain or Ireland whose qualification is not *registered* in the books of the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (*a*) in Great Britain and Ireland, (*b*) in British Possessions overseas, (*c*) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a Qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

(*a*)

Royal College of Physicians, London—F., M., L., R.C.P. Lond.
Royal College of Surgeons of England—F., M., R.C.S. Engl.
Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.
Royal College of Surgeons of Edinburgh—F., L., R.C.S. Edin.
Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glas.
Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel.
Royal College of Surgeons in Ireland—F., L., L.M., R.C.S. Irel.
Apothecaries' Soc. of London—L.M.S.S.A. Lond.
Apothecaries' Hall, Dublin—L.A.H. Dub.
Each Univ. in Great Britain or Ireland—M.D. (Ox., D.M.), M.B. (Ox., B.M.), Ch.B. or B.Ch. or B.S. (Camb. B.Chir.), Ch.M. or M.Ch. or M.S. or C.M. (Camb. M.Chir.); Dub.: L.Med., L.S.
Registrable Diplomas or Certificates for proficiency in Sanitary Science, Public Health, or State Medicine which may be added to qualifications already registered but do not admit primarily to the Register: D.P.H. (R.C.P.S. Engl., R.C.P.S. Edin., and R.F.P.S. Glas., R.C.P.S. Irel., and each of the Univs. of Great Britain and Ireland, except London).
B.Sc. (P.H.) Birm.
B.Hy., D.Hy. Durh.
M.D. (S.M.) Lond.
M.H. L'pool.
B.Sc. (P.H.), D.Sc. (P.H.) Edin.; B.Sc. (P.H.), D.Sc. (P.H.) Glas.

Under the Public Health Acts no appointment as Med. Officer of Health may be made in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc.

New Rules for obtaining qualifications in Public Health were adopted on May 22, 1922, and came into operation as from Jan. 1, 1924. They revise the curriculum and extend the period between the obtaining of an original qualification and a Diploma to not less than 2 years.

(*b*)

Australia. M.B., M.D. Syd., Adel., or Melb.; Ch.M. Syd.; B.S., M.S. Adel.; B.S. Melb.

Canada. M.D. Dal., Laval, McG., Mont.; C.M. Dal., McG.; L.M.S. New Brunswick Provincial Council of P. & S., *or* Nova Scotia Provl. Med. Board, *or* Prince Edward Island Med. Council.

M.C.P. & S. Alta., *or* Manit., *or* Ont., *or* Sask.

As qualifications which may be added (1) to M.C.P. & S. Ont.—M.B., M.D., C.M. of Queen's, M.B., M.D. Tor., or M.D. Western; (2) to M.C.P. & S. Manit.—M.D., C.M. Manit.

Ceylon. L.M.S. Ceylon Med. Coll.

Hong-Kong. M.B., B.S., M.D., M.S. Hong-Kong.

India. M.B., B.S. All.

L.M.S., M.B., B.S., M.D., M.S. Bom.

L.M.S., M.B., M.D., M.S., M O. Calc. (if dated prior to Nov. 30, 1924).

M.B., C.M., M B., B.S., M.D. Mad.

L.M.S., M.B., M.D., M.S. Panj.

M.B., B.S. Lucknow.

Malta. M.D. Malta.

Newfoundland. L.M.S. Nfld. Med. Board.

New Zealand. M.B., Ch.B., M.D. N.Z.

South Africa.

M.B., Ch.B. Cape Town.

M.B., Ch.B. S. Africa.

M.B., B.Ch. U. Witwatersrand.

Straits Settlements. L.M.S. Singapore Med. Coll.

(*c*)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs.; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

B. REGISTRATION OF MEDICAL STUDENTS

The Regulations (including the modifications which came into force on Jan. 1, 1923), obtainable from the Registrar, 44 Hallam St., London, W.1, post free 1s., prescribe Registration of Medical Students within 15 days of the commencement of their professional studies.

For this purpose they should apply in the prescribed form, obtainable from any of the Registrars (v. *supra*), submitting evidence of having—(*a*) attained the age of 17; (*b*) passed a Preliminary examn. in General Education recognized by the Council; (*c*) passed also an examn. in *Elementary Physics* and *Elementary Chemistry* conducted or recognized by one of the Licensing Bodies; (*d*) commenced Medical study at an approved Univ. or Medical School.

As regards (*b*) the Council recognizes no examn. which is of standard lower than that of Univ. Matricn. examns. in the faculties of Arts and Pure Science, and requires that the examn. certificate shall bear evidence that the candidate has passed in English, Elem. Maths., a language other than English, and an additional subject or subjects as required by the regulations of the particular examn., to be chosen from the subjoined list, viz. Hist., Geog., Physical Sc., Nat. Sc., Latin, Greek, Hebrew, French, German, or other language accepted by the Univ. for the purpose. Applicants from one of the recognized Colonial Univs. must produce evidence that they have passed the complete Matricn. examn. for the faculty of Arts or of Science (Pure) of the Univ. or College from which they come, or an examn. accepted as equivalent thereto, and that the examn. passed is accepted by one of the Univs. of Great Britain or Ireland for similar purposes. Applicants from one of the recognized Indian Univs. must produce evidence that they have passed the Matricn. examn. of the Univ. from which they come, or an examn. recognized as equivalent thereto, and, in addition, the Preliminary Scientific or Intermediate examn. in Arts or Science of their own Univ. Applicants from Foreign Univs. should submit their credentials to the Registrar.

As regards (*c*), this requirement is not dispensed with in cases where *Physics* and *Chemistry* of a Matricn. standard formed part of the (*b*) examn., but an applicant from one of the recognized Colonial Univs. or Colleges is permitted to substitute for it a certificate that an examn. in Physics and Chem. (and, in addition, *Biology*, v. *infra*) equivalent in standard to the First Professional examn. in these subjects has been passed by the student. Similarly, in the case of an applicant from one of the recognized Indian Univs. the Preliminary Scientific or Intermediate examn. in Arts or Science of his own Univ. will suffice if these subjects are included in his Pass certificate.

As regards (*d*), institutions in which Medical Study may be commenced include all the Univs. and other Bodies throughout the Empire of which the *qualifications* (v. *supra*) have been recognized as entitling to registration in the U.K.

A student who has diligently attended an approved course of instruction in *Elementary Biology* at a Secondary school or other teaching institution recognized by a Licensing Body may be admitted to the Professional examn. in this subject immediately after his registration as a student.

C. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered may practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams* —Dentiboard, Eusroad, London.

The following lists show the registrable qualifications obtainable (*a*) in Great Britain and Ireland, (*b*) in British Possessions overseas, (*c*) in foreign countries.

(*a*)

Royal College of Surgeons of England—L.D.S., R.C.S. Eng.
Royal College of Surgeons of Edinburgh—H.D.D., L.D.S., R.C.S. Edin.
Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S., R.F.P.S. Glas.
Royal College of Surgeons in Ireland—L.D.S., R.C.S. Irel.
Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm.
Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.
Univ. of Durham—L.D.S. U. Durh.
Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds.
Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. L'pool.
Univ. of London—B.D.S., M.S. (Dent.) U. Lond.
Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V.U. Manc.
Univ. of Sheffield—M.D.S., B.D.S., L.D.S. U. Sheff.
Univ. of St. Andrews—L.D.S. U. St. And.
Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc., U. Dubl.
National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel.
Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

(*b*)

Victoria, Australia—L.D.S. Vict.
Univ. of New Zealand—B.D.S. U. N. Zealand.
Univ. of Sydney—B.D.S. U. Sydney.
Univ. of Melbourne—D.D.Sc., B.D.Sc. U. Melb.

(*c*)

Diploma in Dentistry granted to Candidates in Medicine of the Univs. of Brussels, Ghent, Liége and Louvain, after examn. by a Belgian Provincial Medical Commission—Dent. Dip. Belg.

Degree of Bachelor of Medicine (Igakushi) in the Dental Division of the Tokyo Imperial University—M.B. (Dent. Div.) Tokyo Imp. U.

Diploma of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Tokyo Professional School of Dental Surgery—B.D.S. Tokyo Dent. Coll.

Diploma of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Nippon Professional School of Dental Surgery—B.D.S. Nippon Dent. Coll.

Degree of Bachelor of Dental Surgery (Shikwa-Igakushi) of the Osaka Professional School of Dental Surgery—B.D.S. Osaka Dent. Coll.

D. REGISTRATION OF DENTAL STUDENTS

I. Registration is carried on at the Council Office in London in the same manner as that of Med. students, and is subject to the same regns. as regards age and Prelim. examns., but professional study may commence by pupilage with a Registered Dental Practitioner.

II. Candidates for a Diploma in Dental Surgery should produce certificates of having been engaged in professional studies for at least 4 years, including 3 years at least at a Dental school or schools recognized for professional study by one of the Licensing Bodies, and of having received for not less than 24 calendar months, or for 2000 hours, practical instruction in Dental Mechanics.

III. Two years' *bona-fide* apprenticeship with a Registered Dental Practitioner, after being registered as a Dental student, may be counted as 1 of the 4 yrs. of professional study.

IV. The necessary instruction in Dental Mechanics, or any part of it, may be taken by the Dental student either before or after his registration as a student. When he can show evidence of regular pupilage in Dental Mechanics to a Registered Practitioner, prior to passing the prescribed Preliminary and Scientific examns., he may be allowed to antedate for a period not exceeding 1 yr. prior to the passing of these examns.

V. It is recommended that instruction in Dental Mechanics be taken at a recognized Dental Hospital or School. If any part of such instruction be taken by the candidate as a pupil with a Registered Dental Practitioner, the time required to be devoted to it will be at least twice the time required for the corresponding instruction taken at a Dental School.

Schools at which Dental Study may be commenced: Birmingham D. Hospl; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds D. Hospl.; Liverpool D. Hospl.; London, Guy's Hospl. D. School, London Hospl. D. School, Univ. Coll. Hospl. D. School, Royal D. Hospl.; Manchester D. Hospl.; Newcastle-upon-Tyne D. Hospl.; Sheffield Royal Hospl.; Roy. Coll. of Surg. in Ireland; D. Department of any Univ. of the U.K.

E. RECIPROCAL RECOGNITION

The States, Presidencies, and Provinces in which the registrable medical qualifications specified under A (*b*), (*c*), are granted all allow practitioners with qualifications registered in the U.K. to register without further examn. There are also other Colonies, *e.g.* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.

[A Report (5th edition pubd. in Jan. 1921) as to the conditions under which Med. and Dent. practitioners registered or legally qualified in their own country may practise abroad is obtainable from the Council Office, price 2s. 6d. (post free U.K. 2s. 10d., elsewhere in the Empire 3s. 1d., outside 3s. 4d.). It contains, among other matters, the designa-

tions and addresses of the persons to whom application should be made for forms and further information.]

F. POST-GRADUATE MEDICAL STUDIES

In London, in addition to the General Hospital Medical Schools which provide to a limited extent for qualified practitioners, there are the West London Post-graduate College at the West London Hospital, Hammersmith, with a staff of 37 regular lectrs. and demrs., the North-East London Post-Graduate College at the Prince of Wales' Hospital, Tottenham, and the London School of Clinical Medicine at the Seamen's Hospital, Greenwich, as well as certain special hospitals where excellent arrangements are made for post-graduate work in particular subjects. The Fellowship of Medicine (1 Wimpole St., London, W.1) formed in 1918, promotes and advertises the provision of facilities for post-graduate work and assists in the cultivation of mutual hospitality between the medical profession at home and their medical brethren overseas. In co-operation with 50 London general and special hospitals, post-graduate courses in all the special departments of medical science are arranged, as well as short intensive courses at regular intervals during the year.

Post-graduate courses are also provided by other Univs., notably Edinburgh and Glasgow.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

Address of the Secy., Conjoint Examining Board in England, 8-11 Queen Sq., Bloomsbury, London, W.C.1. Applications for admission to the Board's examns. should reach the Secy. at least 14 days (in the case of the L.D.S. Professional examns., 21 days) beforehand. Agency for the sale of Books of Questions set in past years (9d. each)—Taylor & Francis, Red Lion Court, Fleet St., London, E.C.4.

Examinations for the Diplomas of LICENCE OF THE R.C.P. of London and MEMBER OF THE R.C.S. of England are held ordinarily in Jan., April, July, and Sept. or Oct. Candidates must have passed a Prelim. examn. in general education recognized by the Board, and must have passed before commencing the 5 years' curriculum of professional study, *a Pre-Medical examn. in Chemistry and Physics* conducted or recognized by the Board. Before admission to the Professional examns. (known as the *First* and *Final*) they are required to produce certificates of having pursued the prescribed courses of study and practice. The *First* Professional examn. (fee, 10 gs.) comprises: Section I., (*a*) Anatomy, including Histology and Embryology, (*b*) Physiology, including Bio-Chemistry; Section II., Pharmacology, Practical Pharmacy, and Materia Medica. A candidate who has passed an examn. in the subjects of Section I. or of either part of Section I. and of Section II. in the examn. for the degree in Medicine conducted at a Univ. recognized

by the Board will be exempted from further examn. in such subject or subjects. The subjects of the *Final* Professional Examn. are: Section I. (fee, 4 gs.), (*a*) Pathology, including Morbid Anatomy, Morbid Histology, and Clinical Path., (*b*) Bacteriology; Section II.—Part I. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med., and Public Health; Part II. (fee, 10 gs.), Surgery, including Surg. Anatomy and the use of Surg. Appliances; Part III. (fee, 6 gs.), Midwifery and Gynæcology. A candidate who has passed an examn. for a degree in medicine in the subjects of Pathology and Bacteriology at a Univ. recognized by the Board is exempted from Section I.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed examns. for a degree in Medicine at their Univs. in the subjects of the First Professional Examn., may enter for the Final at the expiration of two years from the date of passing in Anatomy and Physiology on production of the required certificates.

Members of certain recognized Indian, Colonial, and Foreign Univs., who have passed examns. for the Degree of Doctor or Bachelor of Medicine or Surgery in the subjects of the First Professional Examn., may present themselves for the Final under special conditions. A holder of the diploma of the National Board of Examiners of the U.S.A. can enter for the Final on producing the required certificates of 5 years' study from one of the Univs. recognized by the Conjoint Board. The Board also grants Diplomas in Public Health, in Psychological Medicine, in Ophthalmic Medicine and Surgery, in Tropical Medicine and Hygiene, and in Laryngology and Otology. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, a Colonial, or a Foreign Univ.

The regulations affecting candidates who were registered as medical students before Jan. 1, 1924, are given in the 1923 and previous editions of this *Yearbook*.

For admission to the MEMBERSHIP OF THE R.C.P. (fee, 40 gs., *less* Licence fee, if any, already paid) the minimum age is 25, and a candidate must satisfy the Censors' Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If under the age of 40, he must prove a knowledge of Latin, and of either Greek, French, or German, in addition to proving his professional acquirements. If he has not passed the examns. required for the Licence, he must be a registered practitioner who *either* has obtained the degree of Doctor or Bachelor of Medicine at a Univ. in the Empire or a foreign qualification entitling him to practise Medicine or Surgery in the country where it was conferred, after undergoing courses and examns. which the Censors' Board consider sufficient, *or* has attained the age of 40, and can produce testimonials sufficient to satisfy the Board, and subsequently the Fellows, at a General Meeting, that he ought to be admitted to examn.

The FELLOWSHIP of the R.C.P. is conferred by election on a member of the College of not less than 4 yrs.' standing. (For particulars of the Membership and Fellowship of the R.C.P. application must be made direct to the Registrar, Pall Mall East, London, S.W.1.)

Examns. for the FELLOWSHIP OF THE R.C.S. are held twice yearly —the 1st Prof. in June and Dec., and the 2nd Prof. in May and Nov. Fees, first examn., 8 gs., 2nd, 12 gs., admission to Fellowship (minimum age, 25), 10 gs., for those who are not M.R.C.S. Eng. The *First* examn. (in Anat. and Physiol.) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 3 winter sessions, to (*a*) candidates who have passed the First examn., Pts. I., II. and III., and the Second examn. for the L.R.C.P. Lond. and M.R.C.S. Eng., and (*b*) members of Univs. recognized under the Regns. of the Board. The *Second* examn. (in Surgery, including Surg., Anat., and Path.) is open, provided they have passed the First, to (*a*) M.R.C.S. Eng. who have been engaged not less than 6 yrs. in the study or study and practice of the profession, and (*b*) persons possessing the registrable Surg. and Med. degrees of the under-mentioned Univs., who have been engaged after obtaining such degrees in the study or study and practice of the profession for 4 yrs., including 1 yr. spent in attendance upon the Surg. Practice of a recognized Hospl. or Infirmary: the Univs. of the U.K., Dalhousie, Laval, McGill, Manitoba, Queen's (Kingston), Toronto, Western (Ont.), Adelaide, Melbourne, Sydney, N.Z., Bombay, Calcutta, Madras, Panjab, Allahabad, Hong-Kong, Italian Royal Univs. and Imperial Univ. of Japan.

All the above examns. are open to WOMEN, who are also eligible, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges, for the Diplomas of L.R.C.P., M.R.C.S., and F.R.C.S. (For particulars concerning the Fellowship of the R.C.S. apply to Director of Examinations, 8/11 Queen Square, London, W.C.1.)

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW

Joint examinations, open alike to men and women, are held in Edinburgh (in 1924–25—October, January, April) and Glasgow (in 1924–25—July) for the DIPLOMAS IN MEDICINE, SURGERY, AND MIDWIFERY of these three bodies. Applications for admission should reach the Inspector—in Edinburgh, D. L. Eadie, 49 Lauriston Place; in Glasgow, W. Hurst, 242 St. Vincent St.—at least one week before.

Examns. for the DIPLOMA IN PUBLIC HEALTH (fee, 12 gs., or for each Part, 6 gs.) are held early in Oct. in Edinburgh and early in May in Glasgow.

The R.C.P. Edin. may admit to examn. for its single qualification —LICENCE—any candidate who has a Surg. qualification recognized for the purpose. Fee, 15 gs. Examns. held every month, except Sept. and Oct. Admission to MEMBERSHIP (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish College of Physicians or Degree in Med. of a Univ. approved by the Council,

and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs., or, if a L.R.C.P. Edin., 20 gs. A member of 3 yrs.' standing may be elected FELLOW. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

For admission to the FELLOWSHIP OF THE R.C.S. Edin. candidates must pass an examn. (fee, £45, or for L.R.C.S. Edin., £35) in: (*a*) Principles and Practice of Surgery, including Surg. Anat.; (*b*) Clinical S.; (*c*) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S.; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is now open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession after obtaining one of the following, or other approved qualifications in S.: those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas.; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z., Bom., Calc., Mad., Panj.; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Examns. for the LICENCE OF THE R.F.P.S. Glasgow can be arranged at any time of the year, except August. Fee, 15 gs. Qualifications for admission: Licence of one of the Colleges of Physicians of the U.K. or Colonies, or of the Soc. of Apothecaries of London or Apothecaries' Hall, Dublin, conferred after passing the qualifying examns. of these bodies; Degree in Med. of a Univ. of the British Empire.

Examns. for the FELLOWSHIP of the R.F.P.S. Glasgow are held in Jan., April, July, and Oct. 14 days' notice required. Admission to the Fellowship (fee, £50, or for L.R.F.P.S., £40) is either by examn. and subsequent election by ballot or by election in virtue of high distinction in Med. Science or Practice of persons not less than 40 yrs. of age who have been qualified for at least 10 yrs. Not more than 4 Practitioners are admitted by the latter method annually. Candidates must be proposed by 2 Fellows of the Faculty. Special regns. for candidates who have served in the Great War.

All examns. of the R.F.P.S. are open to women as well as to men.

ROYAL COLLEGE OF PHYSICIANS AND ROYAL COLLEGE OF SURGEONS IN IRELAND

Address of Committee of Management of the Conjoint Board—Royal College of Surgeons, Stephen's Green, Dublin. Registrar of the R.C.P.—6 Kildare St., Dublin.

Professional examns. for the LICENCES IN MEDICINE, SURGERY, AND MIDWIFERY are held by the Conjoint Board in spring, summer,

and autumn. Candidates must comply with the requirements of the Gen. Med. Council (v. *supra*) *re* Prelim. examn. and Registration of students. The *First* Prof. examn. (fee, 15 gs.) comprises Chem. and Physics and Biol. The *Second* (fee, 10 gs.), Anat. and Physiol. and Histol. The *Third* (fee, 9 gs.): (*a*) Path.; (*b*) Mat. Med., Pharmacy, Therap.; (*c*) Forensic M. and Pub. Health. The *Final* (fee, 6 gs.): (*a*) Med., including Fevers, Mental Diseases, and Dis. of Children; (*b*) Surg., including Operative and Ophth. S.; (*c*) Midw. and Gyn., Vaccn., and Dis. of Newborn Children.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K., and also the Univ. of Cape Town and the Witwatersrand Univ., Johannesburg. Institutions recognized for certification of studies include: in Canada—the Univs. of Dalhousie, Laval, McGill, Toronto, Trinity Coll. and Vict. Coll. Tor.; Bishops' Coll., Montreal; R.C.P.S., Kingston; Trinity Med. Sch.; in Australia —Univs. of Melb. and Syd., Adelaide Infirmary, Melb. Hospl., Alfred Hospl., Syd. Infirmary, Prince Alfred Hospl., Genl. Hospls. of Hobart and Launceston; in N.Z.—Dunedin Hospl.; in Cape Town—S. African Coll.; in India—Med. Colls. of Bengal and Madras; the Ceylon Med. Coll.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P and R.C.S. may be exempted from further examn. therein.

Examns. for the LICENSES OF THE R.C.P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *License in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Registered Med. Practitioner of the U.K. or on the Colonial or Foreign List of the Gen. Med. Council if the College be satisfied as to his character and his courses of study and examns. passed by him. The examn. for the *License in Midwifery* (fee, 8 gs., special, 12 gs.) is open to Registered Med. Practitioners: (*a*) of the U.K. who have (i.) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii.) satisfied the College as to character and as to course of study pursued and examns. passed; (*b*) of 5 yrs' standing who have so satisfied the College. Entrants under (*b*) are exempt from the examn. by printed questions. Applications for particulars should be forwarded to the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for MEMBERSHIP OF THE R.C.P.I. are held in Feb., June, and Nov., and at specially appointed times. Applications for admission should reach the Registrar by 2nd week in Jan., May, Oct. Fee, 35 gs., or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (*a*) who have held for at least a year a License in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire recognized for registration purposes by the Gen. Med. Council; or (*b*) who hold a foreign qualification, entitling to practise Med. and Surg. in their own countries, obtained after a course of study deemed by the College to be satisfactory. The testimony of a fellow or member of the College or a F.R.C.P. Lond.

or Edin. as to professional conduct and moral character is also required. The Diploma of membership carries with it the License if this has not been already obtained. Exemption from part of the examn. may be allowed by the Court of Examiners on a consideration of evidence that a candidate has "improved the Art or extended the Science of Med."

For admission to the FELLOWSHIP OF THE R.C.P.I. (fee, £35; stamp duty, £25) the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The R.C.S.I. holds examns. (fee, 5 gs.) for a LICENCE IN SURGERY at the same times as those of the Conjoint Board. They are open at the discretion of the Council to Registered Med. Practitioners who have passed through a course of study and examns. equivalent to those required by the Conjoint Board and an examn. in Arts recognized by the Gen. Med. Council. Fee for Licence, 25 gs., including 5 gs. examn. fee.

The R.C.S.I. also holds examns. for a DIPLOMA IN MIDWIFERY. Candidates must have a registrable qualification and produce certificates of attendance on Lectures, 6 months' Hospital practice and conduct of 30 labour cases. Fee, 15 gs.

The examn. for the FELLOWSHIP OF THE R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

THE SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C.4.

Examinations for the Diploma of Licentiate in Medicine, Surgery, and Midwifery (L.M.S.S.A.) are held in London, the Primary examn. (fee, 5 gs.) in Elem. Biol., Chem., Materia Medica and Pharmacy, Anatomy, Physiology, and Histology in Jan., April, July, and Oct., the Final (fee, 15 gs.), monthly, except in Sept. For admission to either, certificates are required, showing in detail the course of Medical study pursued by the candidate with particulars of instruction received, practice and operations performed, and offices held. The course covers 5 yrs. in all. Exemption from the Primary subjects may be obtained by proving that equivalent examns. recognized by the Society have been passed.

THE ROYAL COLLEGE OF VETERINARY SURGEONS

Address—10 Red Lion Sq., London, W.C.1. *Affiliated Colleges*—Royal V. College, Camden Town, London, N.W.1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edin-

burgh; The V. College, Buccleuch St., Glasgow; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing one out of a list (similar to that of the Gen. Med. Council, v. *supra*) of recognized Preliminary Educational examns., attend courses in one of the Affiliated Colleges during 4 yrs. as follows: 1st year (from which exemption is given under certain conditions to graduates, in Arts, Science or Medicine): Anat. of Domestic Animals; Chem. and Elem. Physics; Biol., Elem. Zool., and Botany. 2nd year: Anat. of Dom. Animals; Physiol. and Histol.; Stable Management, Shoeing, etc. 3rd year: Path., Bact., and Protozoology; Mat. Med., Tox., and Practical Pharmacy; V. Hygiene and Dietetics. 4th year: Principles and Practice of V. Med. and V. Surg. and Obst.; Meat Inspection. An examn. (fee, £5) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after obtaining the membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

For admission to the examn. for the *Diploma in V. State Medicine* it is necessary after graduation as M.R.C.V.S. to take a special course at a V. School and undergo training under a County or Municipal V. Inspector. Fee, £5:5s.

THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888. *Address*—90 Buckingham Palace Road, London, S.W.1. Branches in New Zealand and S. Africa and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (nearly 5000) include Medical men, Engineers, Architects, Municipal Officers, etc.

Qualifications for (1) Membership: evidence of attainments of standard indicated by certain of the Inst.'s own certificates, a Degree of a University, or Diploma of a Medical Corporation recognized by the Council, San. Science certif. of Surveyors' Instn. (v. p. 623), Testamur of the Instn. of Munic. and County Engineers (v. p. 595); (2) Associateship: the Inst.'s certif. for Sanitary Inspector or other evidence of attainments of similar standard. Annual Subsn. for Members, 1½ to 2 gs.; Associates, 15s. to 1 g. Fellows are elected from Members of at least one year's standing. Authorized signatures: M.R.San.I., A.R.San.I.

Examinations held by the Institute (fee, 4 to 5 gs.): (1) Sanitary Inspector, under P.H. Act, 1875; (2) Advanced Knowledge of Inspectors' duties; (3) Inspectors of Meat and Foods; (4) Smoke Inspectors; (5) Sanitary Science as applied to Buildings, etc.; (6) Health Visitors and School Nurses; (7) Maternity and Child Welfare Workers; (8) School Hygiene, including Elem. Physiol.; (9) Tropical Hygiene for Inspectors. The Institute's Certificates (Cert.

R.San.I.) are well known throughout the United Kingdom and the Overseas Dominions, and are recognized by Public Authorities as qualifications for appointments.

The examns. are held in London and in numerous other towns in the U.K. and in Canada, Australasia, S. Africa, Hong-Kong, West Indies, Straits Settlements, and Mauritius. Examns. for San. Inspectors are held in Bombay and Rangoon in co-operation with the Local Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn. Fees, 3½ to 5 gs.

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It serves as a public demonstrating school. The Inst. has a large Library, including many foreign works. Sessional meetings, about ten yearly, are held in London and other large towns.

Congresses and exhibitions have been held almost every year since 1877.

Publications. *Journal,* monthly, and numerous pamphlets.

ROYAL INSTITUTE OF PUBLIC HEALTH

Founded 1886. Incorporated 1892. *Address* — 37 Russell Square, London, W.C.1.

The Institute provides courses of Instruction qualifying for admission to the examinations for the Degrees and Diplomas in Public Health of all the Univs. and Medical Corporations. Fees for Laboratory Instruction: 6 months, 34 gs.; P.H. Admn., 15 gs.; Fever Hosp. Admn., 3 gs.; Special Lab. Fees., Chem. or Bact., monthly, 6 gs., 3 months, 15 gs. Courses of free lectures are also given in the Lecture Hall of the Inst. Special lectures open to Fellows, Members, and Students. Subscription, 1 g. p.a. Registration Fee, 1 g.

The Laboratories are recognized as a place of research in connexion with the Beit Memorial Fellowships. Researches and Clinical Examns. are undertaken for Public Bodies and Med. Practitioners. Culture media of all descriptions are supplied.

Reference Library containing all important P.H. Works, Govt. Reports, etc.

Congress to be held at Brighton and Hove, Whitsun, May 27-June 1, 1925.

Publication. *Journal of State Medicine,* monthly, 2s.

INSTITUTE OF HYGIENE

Founded 1903. *Address* — 33-34 Devonshire St. (Harley St.), London, W.1.

Examinations for Certificates and Diplomas (advanced) are held at various universities throughout the U.K. on the second Saturday of Jan. and of June each year. Subjects: General Hygiene, School H.,

Home Nursing and First Aid, Mothercraft, Food and Dietetics, Cooking, Physical Training, School Nursing, and Health Visiting. Fee, 1 g. to 2 gs. Complete syllabus with list of Text Books, 2s. Specimen questions, 1d.

The Certificate and Diploma in General Hygiene qualify for nomination as Associate and Member (M.I.H.) respectively of the Inst.

Public Lectures are regularly given throughout the year in the Lecture Hall. The Inst. has Laboratories for analytical and bacteriological investigation, and a Museum of Hygiene open to the public free throughout the year.

XII

THE INSTITUTION OF MINING AND METALLURGY

Founded 1892. Incorporated by Royal Charter 1915. Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—" Minanmet, London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30, having been for at least 5 yrs. in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist; if born after Dec. 31, 1894, a regular course of at least 3 yrs.' study in pure or applied science. Qualifications for Associateship (Assoc.Inst.M.M.): minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (*a*) 2 yrs. if a graduate of the R.S.M. or other mining college or school of equivalent standing; (*b*) 3 yrs., or such longer period as Council may determine, if a graduate of some other college or school; (*c*) 6 yrs. in other cases. The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn. for Member, 5 gs. each; Assoc., 3 gs. Students pay subsn., 1 g. (over 25—1½ g.) p.a. and no entrance fee.

General meetings for discussion of papers monthly, Oct.–May. Large Library, reading- and writing-rooms. Publications: *Bulletin*, monthly (£1 : 11 : 6 p.a.), and Transactions annually (£1 : 11 : 6 p. vol.); may be purchased by non-members. Gold medals, etc., are awarded by the Instn. for promoting its objects. The Instn. is closely associated with the Royal School of Mines. *Secretary*: Charles McDermid, who is also Secy. to the

EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent institutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, and to compile a register of British Mining and Metallurgical Engineers,

Scientists, and Technologists. On the same occasion (June 3-6, 1924) a paper was read by Prof. H. C. H. Carpenter on "Metallurgical Education of University rank in Great Britain." This is printed in Part V. of the Congress proceedings, obtainable, price 10s. 6d., from the General Secretaries of the Empire Mining and Metallurgical Congress, Cleveland House, 225 City Road, London, E.C.1.

INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter 1915. *Address*—Cleveland House, 225 City Road, London, E.C.1. *Telegrams*—"Instimini, London."

The Institn.'s objects and purposes are "the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation of the Manchester Geol. and Mining Soc.; the Midland Counties Instn. of Engineers; the Midland Instn. of Mining Engineers; the Mining Inst. of Scotland; the North of England Inst. of Mining and Mech. E.; the North Staffs Inst. of Min. E., and the South Staffs and Warwickshire Inst. of Min. E. There is no separate membership of the Institution apart from membership of one of the Federated bodies.

Conditions of admission to membership since Jan. 12, 1916, include: (*a*) regular education and training as a Min. E., and 5 yrs.' work in a responsible position in practical Mining; or (*b*) First-Class Certif. of Competency under Coal Mines Act, and tenure of post as Manager, Asst. Manager, Under-Manager, or Chief Surveyor; or (*c*) position or attainments rendering his membership desirable in the opinion of the Council. There are also Associate Members, Hon. Members, Associates, and Students.

Publications. Transactions (in which are included Procdgs. of Federated Instns. as well as those of the Instn. itself), 67 vols. Price to non-members, 36s. each for current volumes; back volumes at varying rates. Authorized signatures: M.I.Min.E.; Assoc.M.I.Min.E., etc.

THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899. *Address*—28 Victoria St., London, S.W.1.

Qualifications: (1) for Membership—minimum age, 21; being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs.; annual subsn., 3 gs. (if resident abroad, 2½ gs.). (2) For Associateship—maximum age, 24; being (*a*) Student of Metallurgy taking a course at a Univ., Univ. College, or

Tech. School, or (*b*) pupil or apprentice in metallurgy or engineering, or (*c*) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g. Initials denoting membership, M.I S.I., A.I.S.I.

Meetings in May and Sept. for reading and discussion of papers. Library, reference and lending; printed catalogue. Information Bureau; service not restricted to members.

Carnegie Research Fund—£20,000, interest on which is used for grants to assist metallurgists and students in conducting researches.

Publications. Journal in 2 vols. annually; *Carnegie Scholarship Memoirs*, 1 vol. annually.

THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—36 Victoria St., London, S.W.1.

Local Sections in Birmingham, Glasgow, London, Newcastle-on-Tyne, Swansea, Sheffield.

Qualifications for Ordinary Membership (M.Inst.Met.): minimum age, 24; occupying a responsible position, being either engaged in the manufacture, working or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 18-25. Entrance fee and annual subsn. for Ordinary Members, 2 gs. and 3 gs. Students, 1 g. and 1 g. Associate members of local sections pay a nominal subscription and do not receive the *Journal*. *Fellows* (F.Inst.Met.) are limited in number to 12. They are chosen by Council for having rendered eminent service to the Assocn.

The Inst. aims at "the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users and scientific investigators. It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing, than with the production of metals from their ores. The leading features of its work are the holding of sessions in the spring and autumn and an annual "May lecture" given by some acknowledged master of his subject; in addition a special "Practical lecture" is given annually in the autumn by an expert non-ferrous technician.

The *Journal* contains in addition to the proceedings of all the meetings abstracts and reviews of all the more important current publications, British and foreign, bearing upon non-ferrous metals. Price to non-members, £3: 5s. for the two annual vols. (post free).

Library with all the current journals of interest to those concerned with metals. Nucleus museum.

Research is encouraged, directed, and even undertaken by means of a series of special committees, the most important being the Corrosion Research Committee, which began its work in 1910, and after receiving

substantial help from the Govt. Dept. of Scientific and Industrial Research was augmented by the addition of representatives of several Govt. Depts. and Professional Institns. Funds were provided by Sir George Beilby for enabling the Inst. to reward an important research, still continuing, on "The Solidification of Metals from the Liquid State."

INSTITUTION OF PETROLEUM TECHNOLOGISTS

Incorporated 1914. *Address*—Aldine House, Bedford St., Strand, London, W.C.2.

Conditions of admission to associate membership (A.M.Inst.P.T.) since June 17, 1914, include (*a*) good general and scientific education, (*b*) at least 2 yrs.' practical experience in a position (held at time of application) as petroleum technologist.

Annual subscriptions: Students 1 g., Associates 2 gs., Assoc. members 2½ gs., Members 3 gs.

Publications. Journal, bi-monthly, 7s. 6d. (free to members). Rules, etc., 4s. *The Petroleum Industry*, 7s. 6d. *List of Members*, 2s. 6d. *Report of Standard Methods of Testing of Petroleum and its Products*, 6s. (members, 4s.).

XIII.

THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882. Incorporated by Royal Charter 1891. *Address*—Staple Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 and 1919, it is illegal to practise as a Patent Agent without being duly registered. The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1920.

Examinations are conducted or recognized by the Inst. for the two purposes of Registration of P.A.'s and the admission to the Inst. of Fellows, Associates and Students.

The Inst. recognizes as Preliminary examns. the Matricn. examn. of any Univ. in the U.K., the examns. recognized by the Board of Educn. as approved examns. in respect of Secondary Schools, Nos. 1*a*, 2, 4*a*, 8(*a*), 9, 10, 13, 15*c*, 16, of the list on p. 629, and several others.

The Inst. holds each year (i.) Intermediate (fee, 2 gs.), and (ii.) Final examns. (fee, 3 gs.), qualifying for Registration. Latest date for entry, April 1. Subjects of (i.): A. Patent Law and Practice, Designs, Trade-marks, Foreign Law, the reading of Mechanical Drawings; B. Manufactures, Science, and the preparation of Mechanical Drawings. Subjects of (ii.): A. Preparation of Specifications for British Colonial and Foreign Patents; B. Interpretation of British Specifications. Candidates for admission to (i.): must have passed one of the approved Prelim. examns. and (*a*) have served 3 yrs. as a pupil or technical asst. to one or more registered P.A.'s or (*b*) have so served for 2 yrs. *and* attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.' approved practical experience, or (*c*) have so served for 1 yr. *and* taken a degree at a Univ. of the U.K. or attended a 3 yrs.' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience, or (*d*) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (ii.) must have passed (i.) and have served as above for a period of 2 yrs. in excess of term prescribed under (*a*), (*b*), or (*c*) above, as case may be, or be entitled as in case (*d*).

Minimum age for membership of the Inst.—25. Other qualifications: For Fellowship, (*a*) having ceased to be an Associate by reason of being in practice on own account as P.A.; (*b*) having passed Final examn.; (*c*) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P.A.); (*a*) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst.; (*b*) being pupil or asst. of 3 yrs.' standing of a Fellow or a Student attached to the Inst. and having passed Interm. Examn. For Foreign Membership: having been established in practice as P.A. for a sufficient time not less than 3 yrs. in a British Colony or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for " Studentship "—18. Other qualifications : being an articled pupil of a Registered P.A. and having passed an approved Prelim. examn.

Fellows may use the initials C.P.A. after their names.

Entrance fee for Fellow, 3 gs. ; Assoc., 2 gs. ; Foreign Members, 2 gs. ; Student, 1 g. Annual subs. : for Fellow, 3 gs. ; other classes, 1 g.

XIV

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Address—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Sept. or Oct. : the *Qualifying* examn. (fee, 12 gs.), for registration as Chemist and Druggist under the Pharmacy Act, 1868 ; the *Major* examn. (April and July, fee, 3 gs.), for registration as Pharmaceutical Chemist (Ph.C.) under the Act of 1852. No person can be admitted to any portion of the Qualifying examn. who is not a *Registered Apprentice or Student*, and this involves passing in English, Arith., Algebra, Geom., and 2 optional subjects at not more than 3 approved examns. It is recommended that one of the optional subjects be Latin. Among the approved examns. are those numbered in the list on p. 629 as 1, 2, 3, 4, 5, 6, 7 (Junior), 8, 9, 9*a*, 10, 10*a*, 11, 12, 13, 13*a*, 13*b*, 13*c*, 14, 16, 16*a*, 19, 20, 21, 23, 23*a*.

In 1924 the Qualifying examn. was passed by 652 persons, the Major examn. by 31.

The Dean of the Society's *School* is recognized by the Univ. of London, v. p. 170.

XV

INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of the PHYSICAL, the FARADAY, and the OPTICAL Societies, and incorporated under the Companies' Acts in 1920. Other participating Societies are: The ROYAL MICROSCOPICAL Society and the RÖNTGEN Society. *Address*—90 Great Russell Street, London, W.C.1.

Corporate members consist of two classes: *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship include the passing of an examn. held by the Institute or a recognized equivalent examn.; and, in addition, a year's approved research or manufacturing experience. The examn. may be dispensed with in the cases of candidates with qualifications approved by the Board. A candidate for Fellowship has, in addition to his academic qualifications, to show a total record of 5 years' experience either in research or manufacture or in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns. 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I., published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications," price 2s. 6d.; Part II., Oxford Univ. Press, price 3s. The Institute produces the monthly *Journal of Scientific Instruments* in co-operation with the National Physical Laboratory. No. 1 appeared in Oct. 1923 (price 2s. 6d., subscription 30s. p.a.).

XVI

CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—59A London Wall, London, E.C.2. Branches at Birmingham, Bradford, Bristol, Liverpool, Manchester, Newcastle-on-Tyne, Nottingham (for N.E. Midlands), Bradford and Leeds (for West Yorks), Sheffield, Cardiff, Glasgow; and overseas in Canada (Montreal), Australia (Brisbane, Melbourne, and Sydney), and South Africa (Johannesburg).

Examinations are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn. (fee, 1 g.; min. age, 16) comprises English (Grammar, Compn., Dictn.), Engl. Hist., Geog., Elem. Maths., one foreign lang., and one of: Maths. (more Advanced), Physics, Chem., Elem. Mech., Stenography. Exempting examns. include matricn. of any recognized Univ. in the Empire, and those in list on p. 629 numbered 1, 2, 7, 8 (*a*) and (*b*), 9 or 10, 11, 12, 13, 13*b*, 14, 16, 19 (Higher Grade), 23*a*, and the Prelim. of Inst. C.A. or Soc. of Inc. Accountants and Auditors, provided, in case of 16, that the candidate has passed in the above specified subjects; also Higher School Certifs. of Jt. Board (6), Ox., Camb., Durh., Bris. The Council may exempt any one whose educational status is equivalent to standard of Oxford or Cambridge School Certif. Examn.

For admission to the *Intermediate* (fee, 2 gs.) a candidate must have passed or been exempted from the Prelim. Graduates in Arts, Commerce, Law, or Science of recognized Univs. in the U.K., and persons who have passed the Final of the Bar Council, Law Soc., Inst. C.A., or Soc. of Inc. Acctts. and Audrs., are allowed a pass in the Interm. on attaining the usual standard of proficiency in any 4 of the specified examn. subjects they select, but must pass the Final as a whole before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed the Interm. The subjects are: Economics, Sec. practice and duties, Law and practice in connexion with meetings, Book-keeping and Accts., Merc. Law, an approved foreign language, or Banking and Exchange, and one special law subject (*e.g.* Companies or Insurance).

Associate Membership (A.C.I.S.) can be obtained after 6 yrs.' service with a Public Coy. or Body; *Fellowship* (F.C.I.S.), after 8 yrs.', of which 3 have been as Secy. or Asst. Secy. A Fellow may describe

himself as a Chartered Secretary ; so likewise may an Associate if having passed the Final Examn. he holds or has held office as a Secretary, Asst. Sec., Chief Acct., Registrar or Chief Clerk of a Company, or other body corporate.

Publications : *Yearbook*, *Secretarial Practice* (10s.), *The Secretary* (monthly, 1s.).

THE SECRETARIES ASSOCIATION, LTD.

Incorporated 1907. *Address*—Grosvenor Mansions, 82 Victoria Street, Westminster, S.W.1. Local representatives at Birmingham, Bristol, Cardiff, Liverpool, Manchester, Newcastle, Nottingham, Sheffield, Johannesburg, and in Rhodesia and the British West Indies.

Examinations are held in London and various provincial centres in June and Dec. The Preliminary (fee, ½ g.) includes Dictation, English Composition, Arith., Algebra, Euclid (4 books), Geog., History of England, and either Latin or French or German ; the Intermediate (fee, 1 g.)—Comml. Arith., Secretarial work, Précis-writing, etc., Accounts, Mercantile Law, Company Law ; the Final (fee, 1½ g.)—same subjects on higher standard.

Membership as Associate (A.I.S.A.) or Fellow (F.I.S.A.), is open to men or women of 21 years of age who satisfy the Council as to their qualifications. Subscription for Fellows, 2 gs. p.a. ; Associates, 1 g. Lectures are given. *Yearbook*, price 5s., includes catalogue of library, reports of lectures, etc.

XVII

SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charter, 1881. *Address*—12 Great George St., Westminster, S.W.1.

Professional examns. (fees: Interm. or Final, 4 gs.; Direct Fellowship, 5 gs.; applications receivable in Sept.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ g.) in Jan. in the same places and Manchester.

The *Preliminary* (min. age, 16), for admission of students, comprises Elem. Maths., Hist., Compn., and one of: Latin, French, German, Inorg. Chem., Botany, Geol. A candidate must be a pupil of a Surveyor or studying at one of the Univs. of the U.K. or their Affiliated Colleges or one of the following: the Agr. Coll., Uckfield; Harper Adams Agr. Coll., Newport; University Coll., Reading or Southampton; Seale-Hayne Agr. Coll., Newton Abbot. He is expected to reach the standard of examn. No. 8 (*b*) of the list on p. 629.

Candidates for admission as *Student* (min. age, 18) are exempt from undergoing the Prelim. if they have passed any of the examns. Nos. 7, 8 (*a*) or (*b*), 9 or 10, 9*a* or 10*a* (Hons.), 11, 12, 13, 14, 16, 19 (Interm.), 23 and 23 (*a*), or the Matricn. examn. of any Univ. in the U.K., Inst. C.E. Studentship, Prelim. of Inst. C.A., R.I.B.A., Law Soc., Auctioneers' and Estate Agents' Inst. or Sandhurst or Woolwich.

For admission to the (i.) *Intermediate* (min. age, 19), a candidate must, unless at one of the institutions above mentioned, be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I. chiefly Land Agency, II. chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may elect any one of these subdivisions. For the (ii.) ordinary *Final* examination the candidate must have passed the Interm. in the same subdivision which he takes for the Final. The (iii.) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i.) or (ii.), by a candidate who has been in practice on his own account for 5 yrs.

For election as *Professional Associate* (P.A.S.I.) a candidate must have passed (i.) and (ii.), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For the Fellowship (F.S.I.) a candidate must have passed either (i.) and (ii.) or (iii.), and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

Scholarships worth £80, £60, and £50, tenable for 3 yrs. at any Univ. in Great Britain, have been established by the Council.

XVIII

TEACHERS REGISTRATION COUNCIL

Constituted by Order in Council, 1912. *Address*—47 Bedford Sq., W.C.1.

The Conditions of Registration are : (*a*) a degree or other qualification approved by the Council ; if obtained in respect of a technological subject the applicant must have spent 36 months, after attaining the age of 16, in the practice of the profession or industry in question, and of this period 12 mos. must have been concurrent with or subsequent to the course for the degree (or other qualification) ; (*b*) successful completion of a course, extending over at least 1 academic year or its equivalent, of training in the principles and methods of teaching, carried on under conditions approved by the Council and accompanied by practice under supervision ; (*c*) experience as a teacher in educational institns. accepted for the purpose by the Council for a period varying according to circumstances, but in no case less than 1 academic year.

Condition (*b*) is waived in the case of a teacher who has had not less than 3 academic yrs.' experience as Recognized Teacher in Univs. and institns. of Univ. rank approved by the Council for this purpose. Condition (*b*) may be modified in other cases where the Council is satisfied that facilities for the prescribed training do not exist.

Registration fee : A single and final payment of £2.

EDUCATION AND TRAINING FOR TEACHING IN ENGLAND AND WALES

The Board of Education have recently consolidated their Regulations on this subject, and introduced several changes designed to promote the unity of the teaching profession and to remove barriers which have existed between its different branches, while giving ample scope for freedom and variety, which they regard as essential in the training of teachers, and encouraging Training Colleges to plan their schemes of training on different lines so as to provide for the requirements of the various kinds of school included in the national system of education.

Courses of Training qualifying for the Board's Certificate for Teachers in *Elementary Schools* are provided in independent Training Colleges and also in the Training Departments which form part of the work of all the Univs. (Wales—the Constituent Colleges ; Durham—Armstrong College), both for men and (except Cambridge) for women, and also in the Univ. Colleges, Exeter, Nottingham, Reading, and Southampton.

The Board recognizes for grants in respect of courses preparatory to teaching in *Secondary* Schools : (i.) Departments of all the Univs.,

(ii.) Reading Univ. College, (iii.) 7 other Colleges. Cambridge provides for men only.

Candidates for admission as *Recognized students* must, unless this condition is specially waived by the Board in any case, be British subjects ordinarily resident in the U.K.; they must, as a rule, be over 18, and must at least be over 17 on the first day of the academic year for which they are admitted, must give satisfactory evidence of health, character, and suitability for the profession, and must have passed the Preliminary examination for the Elementary School Teachers' certificate or one of the examns. in the list on p. 629, numbered 7, 8 (*b*), 9, 10, 11, 12, 13, 14, or some other examn. as to which the Board are, in particular cases, satisfied that it is equivalent to these in range and standard; they must sign a declaration of intention to follow the profession of teacher in an Approved School. A married woman is not admissible without the special sanction of the Board.

Candidates who satisfy the above requirements as to age, attainments, and character may be admitted as *Private students* without giving the prescribed Undertaking, but no grants will be payable on their account except in certain special cases, and the fees chargeable to them will be correspondingly higher

The principal *types of courses* approved are: (i) 4-year, including 3 yrs. of study for a Univ. degree followed by a year of professional training; (ii.) 2-year, including a period of prof. training taken concurrently with a period of academic study; (iii.) 3-year, providing a year of further training for selected students who have completed (ii.); (iv.) 1-year—(*a*) prof. training for graduates or other advanced students, or (*b*) a year of partly prof. and partly academic study for Certificated Teachers. The foregoing give a suitable training for teaching in Public *Elementary* Schools. Other types are: (v.) in preparation, extending over not less than a full academic year, for teaching in *Secondary* Schools; (vi.) professional instruction, extending, as a rule, over not less than a full academic year, for teaching in *Continuation* Schools; (vii) in preparation for teaching *Domestic Subjects*.

As regards (i.), a student may be admitted to the 2nd, 3rd, or 4th yr. if he has completed 1 yr., 2 yrs., or the whole of the course for a Degree before entering the Training Dept. and is over 18, 19, or 20 as the case may be. A student who has pursued a course of type (i.) will not as a rule be certificated as a Teacher unless he has passed a Final examn for a Degree, but the Board may regard as qualified one who has failed to pass if he is specially recommended by the Univ. Authorities, or he may be recognized as a temporarily Certificated Teacher and subsequently qualify for permanent recognition.

(ii.) Suitable Univ. examns. forming recognized stages in courses for degrees may, subject to certain conditions, be approved for individual students in lieu of the Board's Final examn. Concessions similar to those above mentioned may be made to students who fail in a Final examn. for a degree.

(iii.) may include preparation for a Final examn. for a Univ. degree, provided an advanced course in the Principles of Teaching is included in it or taken separately, and certain other conditions are fulfilled.

For (iv.) any candidate who has not already served as a Certificated Teacher for 4 yrs. must be over 19 and have passed the Final examn. for a Univ. degree, or the examn. for the Diploma of Assoc. in Letters or Science of Univ. College, Reading, or an approved School Leaving Certif. examn. conducted by a Univ., including special advanced papers in English, a foreign language, and one other subject, or the Oxford or Cambridge Higher Local, including Arith. and English, Maths. or Science, Languages or Hist. or Geog., or the Nat. Froebel Union Higher Certif., or some corresponding or higher examn. approved for the purpose. No 1-year student may be allowed to enter for an examn. which forms a recognized stage in the course for a Univ. degree.

(v.) Persons who have obtained a Univ. degree in Honours or its equivalent may be admitted as Recognized students, and will be eligible for maintenance as well as tuition grants if they sign the prescribed Undertaking. Others who have obtained a Univ. degree or a Special Honours Higher Local certif. (Ox. and Camb.) fulfilling the special requirements of the Board may earn tuition grants for the Dept. even though not giving the prescribed Undertaking. Students who have been admitted for a 4-year course and obtained a Univ. degree in Honours or the equivalent may, on the recommendation of the Univ. authorities, take a type (v.) course instead of the fourth year of the type (i.) course.

A person, not under 21, who has obtained an approved degree in a Univ. of recognized standing or a Special Honours Higher Local certif. (Ox. or Camb.) fulfilling the special requirements of the Board may on certain conditions be recognized as a teacher in training in an approved Secondary School, the course extending over at least a full school year. If such a teacher has obtained an approved degree in Honours or its equivalent the School will be entitled to a tuition grant.

Teachers of any ordinary subject of instruction in recognized schools, etc., are eligible for *Studentships*: (*a*) "Special," not exceeding £100, for full-time courses of advanced study or research either at Univs. or institns. of Univ. rank in the British Empire, or at approved places in foreign countries; these are intended for teachers who are able to obtain a term or longer period of grace from school teaching for the purpose, not for the whole or part of an ordinary degree course; (*b*) "Assisted," not exceeding ¾ of the fees of the proposed course, for approved part-time courses in Univs. or institns. of Univ. rank; teachers so assisted would continue their ordinary teaching work at the School.

The Training of Teachers in England and Wales: a Critical Survey, by Lance G. E. Jones, B.A., Balliol College, Oxford, was published in 1923 by the Clarendon Press, Oxford (486 pp., 10s. 6d.) for the Garton Foundation.

A *Joint Standing Committee* of the *Council of Principals of Training Colleges* and the *Training College Association* was formed in 1923 for consultation with the Board of Education. Chairman for 1925, Miss Allan, Principal of Homerton College, Cambridge. Secy., Miss Lloyd Evans, Principal of Furzedown College. Asst. Sec. (to whom com-

munications should ordinarily be addressed), Miss K. B. Anderson, Whitelands College, Chelsea, S.W.3.

The *College of Handicraft* (Hon. Registrar, J. Lloyd, A.C.P., F.Coll.H., 6 Bailey Street, Ton Pentre, Rhondda, S. Wales), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to members of the Institute who satisfy the Board of Examiners of the College. A necessary qualification is recognition by the Board of Education as qualified teacher. Distinctive initials—M.Coll.H., etc. Academical dress may be worn by Members and Fellows.

The *Interchange of teachers between different parts of the Empire* and mutual recognition of certificates and service were among the subjects considered at the Imperial Education Conference held at London under the Chairmanship of the Permanent Secretary to the Board of Education in July 1923, and a report was prepared by a committee of the Conference on I. Interchange ; II. Recognition of (*a*) service given elsewhere than in the country of origin—for the purposes of superannuation, (*b*) previous service—for calculation of salary in case of teachers who migrate ; III. Recognition of teachers' certificates throughout the Empire.

The League of the Empire (124 Belgrave Rd., London, S.W.1) promotes schemes for the interchange of teachers between the Mother Country and the Dominions. In 1920 the London County Council ruled that service in any State School of the Dominions should count as London service for the purposes of such interchange. Canadian, Australian, and New Zealand Education Departments have reciprocated. A triennial Imperial Education Conference is held by the League ; next meeting, 1927. A *Report of the Interchange of Teachers' Scheme*, 1907–1923, was printed for the 1924 Conference. This Conference endorsed the recommendations of the Education Authorities Imperial Conference of 1923 (see preceding paragraph) regarding the method of payment of salaries and the recognition of service abroad. The League has appealed for funds for establishing as a Memorial to the teachers who fell in the Great War a " Home Centre " in London, where teachers from any part of the Empire may find housing accommodation and a meeting-place. Hon. Treasurer, Sir Philip Hutchins, K.C.S.I., League of the Empire, 124 Belgrave Road, S.W.1.

An Overseas Education League, under the auspices of the Govts. of the Dominion of Canada, Newfoundland, New Zealand, and the Depts. of Education of Alberta, B.C., Manit., N.S., N.B., Ont., P.E.I., Que., Sask., New S. Wales, Vict., W. Aust., Natal, and Sierra Leone, undertakes the organization of official visits of Teachers to Great Britain and other parts of the Empire, interchange of Teachers and School Inspectors within the Empire, etc. Office of the Hon. Organizer in Canada (the Exec. Secy., National Council of Education)—607 Boyd Bldg., Winnipeg.

The Fellowship of the Maple Leaf for the supply of British teachers for Western Canada is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—13 Victoria St., Westminster, S.W.1.

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, awards Diplomas as follows: (1) A.C.P. and (2) L.C.P., open to candidates who have had at least 2 (L.C.P. 3) yrs.' experience in teaching, or 1 yr.'s (L.C.P, 2 yrs.') teaching experience and 1 yr.'s approved training on passing an examn. of which the non-professional part is of the standard of the Univ. of London Interm. (L.C.P. Pass) Examn. for the B.A.; (3) F.C.P. open to candidates who having already obtained the L.C.P. submit a satisfactory thesis.

XIX

GENERAL

National Union of Scientific Workers. Founded 1918. *Address*—25 Victoria Street, London, S.W.1. Aims at bringing together into one professional organization all qualified scientific workers, viz: those engaged in (*a*) University and other Higher Educational Institutions and State-aided Research Institutions, (*b*) Industry and Consultative Practice, (*c*) State and Municipal Scientific Departments. Yearly subscription, 30s. (10s. reduction for members of Assocn. of University Teachers, Incorporated Assocn. of Asst. Masters, and Assocn. of Teachers in Technical Institutions). Official journal, published 6 times a year in conjunction with the British Assocn. of Chemists, *Scientific Worker and B.A.C. Bulletin.* President, 1924, Prof. G. H. Hardy, M.A., F.R.S., Genl. Secy., A. G. Church, D.S.O., B.Sc.

Professional Openings in the King's Dominions Overseas

Information on this subject is available in the *Professional Handbook* issued in 1924 by the Oversea Settlement Office, 3-4 Clement's Inn, London, W.C.2, in 4 Parts: I. Barristers and Solicitors, Notaries Public; II. Physicians and Surgeons, Dentists, Vet. Surgeons, Nurses, Chemists and Druggists; III. Civil Service; Clerks, Stenographers, Typists, and Accountants; Governesses, Teachers; IV. Architects and Engineers, Auctioneers, Commercial Travellers, Police, Surveyors. Price of each Part, 9d.

XX

LIST OF EXAMINATIONS REFERRED TO IN THE PRECEDING APPENDICES

1. Oxford Responsions ;
1*a*. Oxford, First Public Examn. before Moderators ;
1*b*. Oxford, Prelim. Examn. in Jurisprudence ;
2. Cambridge Previous ;
3. London Matriculation ;
4. Durham Matriculation ;
4*a*. Durham, Examn. in Arts for the 2nd year ;
5. Wales Matriculation ;
6. Joint Board of Northern English Univs. (Manc., Liv., Leeds, Sheff., Birm.) Matricn. ;
7. The same Board's School (7*a*—Higher School) Certificate ;
8. Oxford and Cambridge Schools Examn. Board's (*a*) Higher, (*b*) School, (*c*) Lower Certificate ;
9. Oxford School Certificate (Senior Local) ;
9*a*. Oxford Junior Local ,
9*b*. Oxford Higher School Certif. ;
10. Cambridge School Certificate (Senior Local) ;
10*a*. Cambridge Junior Local ;
10*b*. Cambridge Higher School Certif. ;
11. Bristol School (11*a*—Higher School) Certificate ;
12. Durham School (12*a*—Higher) Certificate ;
13. London General School ;
13*a*. London General (School) Matricn. ;
13*b*. London Higher School ;
13*c*. London Junior School ;
14. Central Welsh Board's School or Higher Certificate ;
15*a*. University College, London, Matricn. ;
15*b*. King's College, London, Matricn. ;
15*c*. City and Guilds (Engineering) College, London, Matricn. ;
16. College of Preceptors, Senior ;
16*a*. College of Preceptors, Junior ;
17. University College, Southampton, Special Entrance (Engineering) ;
18. Scottish Univs. Preliminary in Science ;
19. Scottish Educn. Dept. Leaving Certif. ;
20. Belfast Matricn. ;
21. N.U.I. Matricn. ;
22. Dublin General at end of Senior Freshman year
23. Irish Intermediate (Middle Grade) ;
23*a*. Irish Intermediate (Senior Grade) ;
24. Responsions at St. David's College, Lampeter.

XXI

MATRICULATION EXAMINATIONS IN GREAT BRITAIN AND IRELAND AND EXEMPTION THEREFROM. (SEE ALSO APPENDIX XXIII.)

[The *School* and *Higher School* Examinations and Certificates referred to in this Appendix are those described on p. 4.]

(*a*) BIRMINGHAM, LEEDS, LIVERPOOL, MANCHESTER, AND SHEFFIELD

The Matriculation Examn. held at each of these Univs. in July and Sept. (fee, £2) is conducted by a *Joint Board*. *Address* of the Secy. (J. M. Crofts), 315 Oxford Rd., Manchester. Candidates are required to satisfy the examiners at one and the same examn. in English Composition, in 5 subjects chosen as follows, and in the examn. as a whole: I. either English Literature or History; II. either Maths. or Latin; III. three other subjects, not already taken under I. and II., chosen from: 1. Engl. Lit., 2. Hist., 3. Geog., 4. either Music or Art, 5. Greek, 6. Latin, 7. French, 8. German, 9. some other Approved Language, 10. Maths., 11. Mechanics, 12. Physics, 13. Chem., 14. Physics-with-Chemistry, 15. Natural Hist., 16. Botany; provided that candidates who take Maths. under II. must include one of subjects 5-9, and those who take Latin under II. must include one of 10-16. The several Univs. impose special conditions for entrance to certain Faculties.

Exempting Examns. Those in the list on p. 629 numbered 1 and 2, London Intermediate examn., Intermediate examn. in Arts, Sc., or Med. of an approved Indian Univ., Final Examn. of Law Society (in case of Barrister or Solicitor entering Faculty of Law), Special Army Education Certificate at Advanced Standard; also, subject to provisos, Nos. 3, 8 (*b*), 9, 10, 11, 12, 13, 14, 19, and at the Board's discretion other examns. of equal or higher standard. A degree conferred by an approved Univ. after examination also entitles to exemption. See also Appendix XXIII.

A *Special Examination* for *candidates of mature years* (not under 23 on May 1 of year of application) has been instituted. Applications (with fee, £2, and birth certif.) will be received up to May 1.

A *Special Examination* has been instituted for candidates not below 19 yrs. of age, who have been *engaged in industry and commerce* for at least 3 yrs. since leaving school, and have as students attended satisfactory day or evening courses for at least 3 yrs. Subjects: English, another modern language, one subject of the ordinary Matricn. examn., and a technical subject. Date, July. Fee, £2.

Special Regulations for Entrance to Faculties

BIRMINGHAM. Candidates entering the *Arts* faculty, except those taking a degree in Music, must have passed in Latin (or Greek) and a

Modern language. Those taking B.Sc. in *Pure Science* are recommended to take both French and German in Matricn. examn.; those taking B.Sc. in *Engineering*, to take Mechanics and Additional Maths.

LEEDS. For admission to courses for the *B.A.* a Latin qualification is required. Candidates taking Physics as a principal subject for the *B.Sc.* must produce evidence of an adequate knowledge of Mechanics. *Medical* and *Dental* students are ordinarily required to have passed in Maths. at the Matriculation Examn. Candidates for the *B.Com.* must have passed in at least one modern foreign language at the Matricn. Examn.

LIVERPOOL. Candidates for the *B.A.* are required to have passed in Latin or Greek at matriculation standard. *Engineering* students are recommended to include in the Matricn. Examn. Additional Maths. and one of: Mechanics, Physics, Chemistry; they may not include Music or Art. *Medical* and *Dental* students must have passed in Physics and Chemistry and have attained 17 years of age.

MANCHESTER. Candidates for the *B.A.* ordinary degree must pass the Intermediate Examn. in Latin or Greek. Those intending to enter upon any Honours course in Arts (save Archit., Economics, Philos., and Geog.) must ordinarily have passed in Latin or, for Hons. School of German or English, in Greek, unless prepared to devote 4 years to the course. For admission to a degree course in *Science* Maths. and Mechanics are required. Candidates for the *LL.B.* must have passed in Latin at matriculation standard. For admission to a course for a degree in the Faculty of (*a*) *Medicine*, (*b*) Science, (*c*) Technology, respectively, are required: (*a*) Latin, Maths., and Mechanics, (*b*) Maths. and Mechanics, (*c*) Maths.

SHEFFIELD. Candidates for the *B.A.* ordinary degree must pass the Intermediate Examn. in Latin or Greek, and no language course for the Intermediate Examn. may be entered upon without proof of an adequate elementary knowledge of the language. *Medical* and *Law* students must have qualified in Maths. and Latin respectively. *Engineering* students should present Maths. and include Mechanics or Physics or Chemistry.

(*b*) BRISTOL

The University recognizes as qualifying for Matriculation: 1. *Graduation* in a Univ. in the United Kingdom or some other approved Univ. 2. *Higher school certificate*. 3. (i.) *School certificate* with credit in 5 subjects from groups i., ii., iii., at least one subject being taken from each group, and one being: (*a*) for faculty of arts—either Latin or Greek; (*b*) for other faculties—mathematics. For the purposes of this qualification credit in religious or scriptural knowledge is not reckoned. (ii.) *School certificate* if the Senate is satisfied that such proficiency has been shown in a particular group of subjects as to qualify for curriculum for degree. 4. *Scottish* Education Department's *Leaving Certificate*. 5. Trained certificated *teacher's* qualifications, under certain conditions. 6. *Matriculation* examn. of any univ. of the United Kingdom; Oxford Responsions, including mathematics; Cambridge

Previous examn. 7. Sufficient qualification for original *research* in case of candidate for research degree. 8. In exceptional circumstances sufficient education and attainments in case of candidate *over 23 years of age.*

(*c*) CAMBRIDGE

The *Previous Examination* comprises: I. (*a*) Latin, (*b*) Greek, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish; II. (*a*) Maths. (elementary), (*b*) Maths. (less elementary), (*c*) Experimental Physics and Chemistry; III. (*a*) English essay and précis writing, (*b*) Holy Scripture (Gospels and Acts of the Apostles), (*c*) English History.

Candidates must pass in at least two of the languages in Part I., including (*a*) or (*b*), in II. (*a*) and either II. (*b*) or II. (*c*), and in III. (*a*) and either III. (*b*) or III. (*c*). The parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (*a*)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (*a*).

Exemption is obtainable by means of: 1. *School certificates*—(i.) with credit in 5 subjects (or in 4, one at least from each of groups i., ii., and iii.) of which one must be Latin or Greek, or (ii.) with less complete credit, giving only partial exemption; 2. *Higher School Certificates* and *Scottish Leaving Certificates*, subject to certain other conditions, 3. *Matriculation Certificates* (see below); 4. *Certificates of graduation* in any Univ. in Great Britain provided that in one of the examns. leading up to the degree the candidate passed in Latin or Greek; 5. *Affiliation* (see p. 53); 6. *Foreign Certificates* (see Appendix XXIII.).

Matriculation Certificates. A student who has passed one of the undermentioned "approved examinations" is exempted from Part I. of the Previous Examn. if he passed in 2 languages other than English, one of which is Latin or Greek, provided that both were taken on one and the same occasion; from Part II. if he passed in either Mathematics or Physics or Chemistry; from Part III. if he passed in English.

The "approved examinations" are: Oxford Responsions and the Matriculation Examn. of the other English Univs., the Univ. of Belfast, and the N.U.I. (see also Appendix XXIII.); the Preliminary Examn. in Arts or in Science of the Scottish Univs.; and examns. affording exemption from and examns. subsequent to matriculation in any of the above-mentioned Univs.

In exceptional circumstances the Council of the Senate may grant exemption in other cases.

(*d*) DURHAM

A Matriculation Examn. is held for admission to the *Durham Colleges* only. The subjects are (*a*) Modern History or English, (*b*) Mathematics, (*c*) Chemistry, (*d*) Physics, (*e*) Mechanics, (*f*) Logic, (*g*) Advanced Maths., (*h*) Latin or Greek, (*j*) French or German or Italian or Spanish, (*k*) Geography, (*l*) Botany, (*m*) Religious Knowledge, including Greek Testament, (*n*) Ancient History. Students in Arts or Theology must

take 5 subjects, including (*a*), (*h*), one of (*b*) to (*f*), and one of (*g*), (*k*), (*l*), (*m*), or (*n*) ; in Science—5 subjects, including (*a*) and (*b*), either (*c*) or (*d*). a foreign language, ancient or modern, and one of (*e*) to (*n*) [excluding (*f*) and (*g*)] ; in Music—any 4 of the above named or a foreign language and 2 other subjects.

The following are recognized for *exemption* from this examn. : (i.) *graduation* in any Univ. in the United Kingdom or other Univ. recognized by the Matriculation Board ; (ii.) *Higher school certificate* ; (iii.) *School certificate* with credit in not less than 5 subjects [other than Religious Knowledge and subjects in Group D (Music, Drawing, Needlework, Cooking, Business Knowledge, Geometrical and Mechanical Drawing)] and, for the Faculty of Arts, including a credit in Latin ; (iv.) Matriculation examn. of any Univ. in Great Britain or Trinity College, Dublin, provided that, for the faculty of Arts two languages other than English, of which one must be Latin or Greek, are included ; (v.) Oxford Responsions, including Mathematics , (vi.) Cambridge Previous ; (vii.) Scottish Leaving Certificate, higher or honours grade.

In exceptional circumstances when a candidate is *over 23 years of age* other sufficient evidence of previous education and attainments is accepted. The Board interviews such candidates (in July only) submitting them to such examn. as it may think necessary.

For matriculation in the *College of Medicine* the following are recognized : I. (i.) graduation in Arts in a Univ. of the British Empire ; (ii.) certain of the School and Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in Great Britain and Ireland, provided the candidate passed in English, Elementary Maths., Greek or Latin (Oriental Students—Sanskrit), French or German, or other approved modern foreign language, and one other subject from a list of 15.

For admission to *Armstrong College* the following are recognized subject to specified conditions as to required subjects (the candidate must have passed in either 5 at one examn. or 4 at one and 2 at a subsequent examn.) : certain of the School (with credit) or Higher School certificates, the Scottish Leaving Certificate, and Matriculation examns. of Univs. in England. The required subjects are English, Elementary Mathematics, one of Latin or Greek or French or German, and 2 other subjects (or 3 when the candidate passed in only 4 required subjects at one examn.) from a list of 17. Candidates for B.Sc. in Engineering or Naval Architecture or Mining or Metallurgy must have passed in Mechanics and either Experimental Science or both Physics and Chemistry (or in case of Engineering or Naval Architecture students—Advanced Mathematics).

Candidates of *more than 23 years of age* whose native language is English may be admitted on producing satisfactory evidence of educational attainments.

In special circumstances a special entrance examination may be taken by candidates who have been *engaged in technical pursuits* for 2 years approximately.

In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements.

(*e*) London

The University conducts 3 examns. qualifying for matriculation: 1. the ordinary Matricn. Examn., 2. the General School Examn., 3. the Examn. under Statute 116. As regards 2. and 3., see pp. 109, 640. To pass 1. a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths., and 3 of the following: (*a*) Latin, (*b*) Greek, (*c*) Botany, (*d*) Chemistry, (*e*) Heat, Light, and Sound, (*f*) Mechanics, (*g*) Electricity and Magnetism, (*h*) French, (*j*) German, (*k*) Italian, (*l*) Russian, (*m*) Spanish, (*n*) another approved language, (*o*) History—Ancient or English, or Modern European, or of the British Empire, (*p*) Geography—physical and general, (*q*) Logic, (*r*) Drawing—geometrical and mechanical, (*s*) Maths.—more advanced, (*t*) Zoology, (*u*) Geology, (*v*) Music—theory. One of the 7 subjects (*a*) to (*g*) must be included, and one of the subjects offered must be a language other than English. At the Intermediate Examn. in Arts it is compulsory to offer (*a*) or (*b*), whether taken at the Matricn. examn. or not. Law students are advised to offer (*a*) and English History at their Matricn. Examn.

Exemption may be obtained (1) by graduates of approved British, Colonial, and Indian Univs. and persons who have passed all examns. required for a degree in those Univs.; (2) subject to certain conditions, among them the passing with credit in five subjects at one and the same examn., persons who have passed the examns. numbered 7, 8 (*b*), 9, 10, 12 in Appendix XX.; (3) subject to other conditions persons who have passed examns. 2, 6, 8 (*a*), 19.

(*f*) Oxford

Responsions comprises: I. (*a*) Latin, (*b*) Greek; II. (*a*) English, (*b*) French, (*c*) German, (*d*) Italian, (*e*) Spanish; III. (*a*) Maths., (*b*) Natural Science. To pass a candidate must have satisfied the examiners *either* in both subjects from Group I. and in both subjects from Group III., *or* in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn. or in 3 at one examn. and in a fourth at a subsequent examn.

Exemption may be obtained: A. by persons qualified to become Affiliated, Colonial, Indian, or Foreign students; B. subject to certain conditions, including passing in two languages other than English, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn. or gained a class in the Final Senior Freshman Examn. of Dublin or a Scottish Preliminary Examn. Certificate, or passed any of the examns. numbered 3, 5, 6, 19 in Appendix XX., or the Intermediate Arts or higher examn. of Birmingham, Durham, Leeds, Liverpool, London, Manchester, or Sheffield.

(*g*) Wales

The Matriculation Examn., the passing of which is a condition of matriculation for students of the constituent Colleges who have not

passed an equivalent examn., is held at each of these Colleges about the end of June and early in Sept. each year. The subjects are (*a*) English, (*b*) Latin, (*c*) Greek, (*d*) Welsh, (*e*) French, German, other approved languages, (*f*) History, (*g*) Music, (*h*) Mathematics, (*j*) Dynamics, (*k*) Physics (including Mechanics), (*l*) Chemistry, (*m*) Botany, (*n*) Biology, (*o*) Geography. A candidate must pass at one and the same examn. in 5 subjects, including (*a*), one of (*b*), (*c*), (*h*), at least one language [and not more than two unless both (*b*) and (*c*) are offered] in addition to English, and either (*h*) or one of (*j*) to (*o*). No candidate may offer both (*j*) and (*k*) or both (*m*) and (*n*).

Examinations recognized as equivalent subject for subject: (*a*) The Matricn. examns. of London, of the Northern English Univs. Joint Board, or of Dublin, or the Preliminary Examn. of the Scottish Joint Board; (*b*) School Certificate Examns. (except Durham's), the Leaving Certificate (Higher Grade) of the Scottish Education Dept., the Intermediate Examn. (Senior Grade) of the Ministry of Education for Northern Ireland (with credit at one and the same examn. in each of the subjects required by the Welsh matricn. regulations). A pass in a " First Examn. " in Music gained in or before 1924 will not count for exemption nor will other passes before July 1, 1924, except in accordance with conditions for exemption then in force.

Candidates of 23 *or more years of age* may be exempted on the special recommendation of a constituent College.

(*h*) Scottish Univs., see p. 256

(*j*) Belfast

The Matriculation Examn. comprises English, Mathematics, and 3 of the following: (*a*) Greek, (*b*) Latin, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish, (*g*) Modern History, (*h*) Physics or Mechanics, (*j*) Geography, (*k*) Chemistry, (*l*) Botany, (*m*) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (*n*) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing, (*o*) for Commerce—Elementary Economics, and (*p*) Accounting. For Arts, Science, or Medicine one language other than English must be taken; for Commerce—French or German or Spanish.

For Engineering students there is a special Matricn. Examn. comprising English, Maths., Further Maths., Greek or Latin or French or German or Italian or Spanish, Physics or Chemistry, Modern History or Geography.

A candidate who has passed in at least 3 subjects, but failed to pass the examn. as a whole, is allowed to complete his matricn. at the next subsequent examn.

For *exemption* the Univ. recognizes 1. graduation in a British Univ.; 2. the Final Junior Freshman Examn. of Dublin, provided the candidate has passed in the subjects required by Belfast and, in the case of medical students, the subjects required by the G.M.C.; 3. for entry to any faculty the candidate would have been entitled to enter in the Univ. whose examn. he has passed—the examns. numbered 1, 2 (Parts I. and II.), 3, 5, 6, 13, 21 in the list in Appendix XX.; 4. subject for subject—

the examns. 8 (*a*), 8 (*b*) (with credit at one and the same examn. in all subjects), 9, 10, 11, 19 (Higher or Honours), 23 (*a*), and certain others.

Students of mature age (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit such candidates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case.

(*k*) Dublin

The Matriculation Examn., held five times a year, comprises English Composition, Mathematics, English History, Modern Geography, Latin, and one of: Greek, French, German, Italian, Spanish, Irish, Russian.

Exemption, partial or complete, may be obtained by candidates who have passed the Senior Grade Examn. formerly held by the Board of Intermediate Educn. or any other examn. regarded by the Senior Lecturer as equivalent thereto.

(*l*) National University of Ireland

The Matriculation Examn., held twice a year, comprises six groups of subjects: (*a*) Irish, (*b*) Latin or Greek, (*c*) any modern language approved by the Senate, (*d*) English, (*e*) Maths., (*f*) Latin, Greek, any modern language approved by the Senate, History *and* Geography, Applied Maths. *or* Physics, Chemistry, Botany (for women candidates only), Physiology, and Hygiene. Candidates must pass in 5 subjects, and none except engineering students may present more.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group I. Others may present in lieu of Irish either a second language or a second Science subject; they will be expected to attend a course in Irish Literature and History before obtaining a degree in the Univ. Students entering for Degrees in (1) Arts, Philosophy, and Celtic studies, (2) Law, (3) Medicine or Dentistry, (4) Science and Commerce, (5) Engineering, must take: (1) subjects in groups (*a*), (*b*), (*d*), (*e*), (*f*); (2) Latin, and subjects in (*a*), (*d*), (*e*), (*f*); (3) Latin, (*a*), (*d*), (*e*), and a fifth subject, but if already registered by the G.M.C., students may take the subjects prescribed for any other faculty; (4) or (5) one from each of (*a*), (*d*), (*e*), and two others from (*f*).

Exemption. Passes in the Intermediate Senior Grade or the Leaving Certificate Examn. in any of the subjects recognized for matriculation are accepted as equivalent to passes in these subjects at the Matricn. Examn. even though the former examn. was not passed as a whole. Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn.: the examns. numbered 1, 2 (Parts I. and II.), 9, 10, 19 (Higher), in Appendix XX., and the Scottish Preliminary Examn.

XXII

STUDENTS FROM OTHER COUNTRIES IN THE UNIVERSITIES AND UNIVERSITY COLLEGES OF GREAT BRITAIN AND IRELAND *

From AFRICA 1144, AMERICA 794, ASIA 1573, EUROPE 564, THE PACIFIC 310. Grand Total, 4385. The number of students from each of the countries which contributed largely to these totals is given below :

From EGYPT 309, including 66 at Birmingham, 19 at Cambridge, 18 at Leeds, 18 at Liverpool, 87 at London, 30 at Manchester, 20 at Edinburgh.

From MAURITIUS 31 (at London 24).

From SOUTH AFRICA AND RHODESIA 747 (at Cambridge 52, Liverpool 43, London 384, Oxford 65, Aberdeen 18, Edinburgh 76, Glasgow 27, Dublin 41).

From WEST AFRICA AND NIGERIA 46 (at London 12, Edinburgh 13).

From CANADA AND NEWFOUNDLAND 162 (at Cambridge 20, London 58, Oxford 56, Edinburgh 15).

From SOUTH AMERICA 78 (at Cambridge 15, London 24).

From U.S.A. 425 (at Cambridge 75, London 114, Oxford 179, Edinburgh 39).

From WEST INDIES AND BERMUDA 120 (at London 42, Oxford 11, Edinburgh 24).

From CHINA 111 (at London 43, Edinburgh 27).

From INDIA, BURMA AND CEYLON 1199 (at Birmingham 18, Bristol 24, Cambridge 152, Leeds 16, London 522, Manchester 51, Oxford 104, Sheffield 21, Edinburgh 152, Glasgow 90).

From JAPAN 93 (at Cambridge 12, London 53).

From PALESTINE 33 (at London 28).

From SIAM 79 (at Cambridge 15, London 20).

From AUSTRIA 11, BELGIUM 10, CZECHO-SLOVAKIA 16, DENMARK 25, FRANCE 48, GERMANY 34, GREECE 25, HOLLAND 40, ITALY 23, NORWAY 21, POLAND 26, ROUMANIA 23, RUSSIA 94, KINGDOM OF SERBS, CROATS AND SLOVENES 17, SPAIN 17, SWEDEN 21, SWITZERLAND 53.

From AUSTRALIA 188 (at Cambridge 30, London 70, Oxford 48).

From NEW ZEALAND 121 (at Cambridge 38, London 49, Oxford 15).

* Compiled from lists received from all Universities and University Colleges except the Medical Schools of St. Bartholomew's Hospital and Charing Cross Hospital. A consolidated list of names of the students has been printed, and can be obtained from the Universities Bureau. Many students from other countries study without enrolling in any university or university college. Among them are law students and students in technical schools and research institutes. None of these are included herein.

XXIII

ADMISSION AS UNDERGRADUATES OF THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND OF PERSONS EDUCATED ABROAD

The following notes relate to the admission of students from other countries proposing to take full courses for a First degree, excluding from consideration those who seek admission with advanced standing on the ground of having already pursued courses in other Univs.* and those who seek only to study without aiming at a degree.

A comparison of the regulations of the several Univs. in question governing admission of such students discloses a general agreement in principle, with divergencies in application.

The regulations are drafted on the understanding that the application to a student educated in another country of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications: ordinarily certifs. which would entitle to admission to a Univ. in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English.

The lines along which this policy has been applied in the several Univs. may be briefly indicated as follows:

At *Oxford and Cambridge* "Responsions" and the "Previous" Examn. respectively take the place of the Matriculation Examn. of other Univs. An *Adviser to Colonial and Foreign Students* is attached to the Univ. Registry at Oxford.

Exemption may be obtained, not only from Responsions (and also the Examn. in Holy Scripture) or the Previous Examn., but also from the Entrance Examns. of the other Home Univs., by passing the Oxford or Cambridge Senior Local Examns., which are held in various parts of the British Empire overseas.

Oxford Responsions. Exemption may be granted to persons who have passed the Baccalauréat in France, the Maturitäts-Prüfung in

* A résumé of Regulations regarding such concessions is given on p. 15.

Switzerland (Latin being one of the subjects in which they have passed), or at a Gymnasium in the German Empire, the Austro-Hungarian Empire, Russia, or Serbia, the Examn. for the Licenza Liceale in Italy, or the Eindexamen at a Gymnasium in Holland; also, provided they have satisfied the examiners in either Latin or Greek and in one other approved language (Greek, Latin, French, German, Italian, Spanish), to persons who have passed any of the following examns.:

Univ. of McGill Matricn., or First Year in B.A. course; Ontario Educn. Department's Junior Matricn.; Univ. of Toronto Senior Matricn., or First Year;

Univ. of Adelaide Senior Public; Univ. of Melbourne School-leaving (Class B); Univ. of Tasmania Public Leaving; Univ. of W. Australia School-leaving; New South Wales Educn. Department's Leaving Certif.;

New Zealand Matricn. or Entrance Scholarship;

S. African Univs. Joint Matricn. Board or the Transvaal Secondary School Certificate Examn., or the Cape Province Secondary School Senior Certificate Examn., with 60 per cent of the maximum marks in two of the above-named languages;

Univ. of Malta Matriculation;

Univ. of Hong-Kong Senior Local;

Part I. of the Baccalauréat de l'Enseignement Secondaire in France;

also to any person who has obtained the degree of B.A. or B.Sc. at an approved Indian Univ., provided that his course at his Indian Univ. included the study of English and one of the languages, Latin, Greek, French, German, Sanskrit, Arabic, Persian, Pali, Classical Chinese.

Cambridge Previous Examn. Exemption may be granted from the several Parts of the Examn. to a person who (i.) has passed the Matricn. Examn. of British Columbia, McGill, Toronto, Adelaide, Melbourne, Queensland, Sydney, Tasmania, W. Australia, New Zealand, or the Univ. of S. Africa or an examn. affording exemption from, or subsequent to the matricn. examn. in any of these Univs. (see also Appendix XXI.), or (ii.) holds a certificate qualifying for admission without further examn. into the Univ. of any European state, or (iii.) holds the Egyptian Govt. secondary education certif. and is not of European parentage, as follows:

(i.) From Part I. if he has passed in 2 languages other than English, one being Latin or Greek, provided that both have been taken on one and the same occasion;

From Part II. if in either Mathematics or Physics or Chemistry;

From Part III. if in English.

(ii.) From Part I. if he has passed (either in the Examn. in question or in another Univ. Examn. in the same country, certified by the authorities of the Univ. as ranking higher) in 2 languages other than his mother-tongue, of which one is Latin or Greek.

From Part II. if in either Mathematics or Science;

From Part III. if in a Modern Language other than that used for exemption from Part I.

(iii.) From Parts II. and III. and also, provided that in one at least of the 2 examns. for the certif. he has passed in French, from Part I.

The following is a list of Univs. approved by the Univ. of Cambridge for the purposes of acceptance of their graduates as *Affiliated Students*, who are exempt from the Previous Examn. : (1) In Great Britain and Ireland—all ; (2) in Canada—Alberta, Br. Col., Dalh., McGill, Manit., New Bruns., Queen's, Sask., Tor., Western Ont. ; (3) in Australia—all ; (4) New Zealand ; (5) in S. Africa—all ; (6) in India—Allah., Bom., Calc., Dacca, Madras, Panj. ; (7) in U.S.A.—Calif., Chic., Columbia, Corn., Dartmouth, Harv., Ill., Johns Hopkins, Mich., Minn., Penn., Prin., Virg., Wisc., Yale ; (8) Basle, Berne.

London accepts certifs. of matricn. of Colonial Univs., and (provided they indicate a standard *prima facie* involving an education equivalent in the student's own country to that required in England for matriculation in London) Indian or Foreign certifs., as grounds for exemption from the ordinary Matriculation Examn. of students of not less than 19 years of age, but requires all candidates so exempted, except those who have passed under prescribed conditions the Matricn. Examn. of Adelaide, Melbourne, or West Australia, to undergo in London a shortened form of this examn. under Statute 116 (see next paragraph). London also arranges for the holding of its own ordinary Matriculation Examn. in the Colonies and self-governing Dominions upon the application of the local Governments. As regards graduates, see p. 103.

The Examination under Statute 116 held in London, usually in March, May, Sept., and Dec., comprises four subjects, of which English and either Mathematics or Logic are compulsory. Any certificates that the candidates may present, or any examn. he may have passed, may be taken into account ; but in every case he is required to undergo a *viva-voce* examn., and a sound elementary knowledge of English is necessary. The written portion of the examn. lasts one day. The fee is £5 : 5s. No syllabus is published. Applications should be addressed to the External Registrar.

The Northern (English) Universities Joint Board. Subject to Special Regulations for Entrance to particular Faculties, exemption from the Matriculation Examn. is granted to a student who holds the Secondary Education Certif. of the Egyptian Ministry of Education, or has passed the Interm. Examn. in Arts, Sc., or Med. of an approved Indian Univ., and may, at the discretion of the Board, be granted to " applicants holding certifs of having passed examns. of a standard at least equal to " Oxford Responsions, Cambridge Previous, etc. The procedure at Liverpool is as follows : Applications, with references, from Foreign and Indian undergraduate students are receivable up to June 1, from Egyptian up to July 31. In respect of Indian and Egyptian undergraduate students the Students' Dept. of the High Commr. for India and the Egyptian Educational Mission are asked to certify as to the character, qualifications and suitability of applicants.

Leeds has an Overseas Students' Committee.

Durham. Foreign students may matriculate provided they satisfy a special Committee that they have passed in their own country an

examn. of a standard deemed sufficient for matriculation, and that they have sufficient knowledge of English to profit by the proposed course of study. The Matriculation Examn. of the Univ. of Sydney is recognized as exempting from that of Durham.

Durham Colleges: Graduates of Univs. in the U.K. or of other approved Univs. are admitted without further examn. A candidate educated elsewhere than in Great Britain may matriculate if he has passed examns. deemed by the Matricn. Board to be sufficient. Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

College of Medicine: Examns. qualifying for a degree in Arts of any Univ. of the British Empire are accepted, subject for subject, for exemption from the ordinary matricn. examn. Candidates from a British Colony who have passed an examn. which would admit them to a medical degree course in such Colony are accepted for matricn. if the examn. satisfies the requirements of the G.M.C. Candidates from India must have passed the Interm. Examn. of one of the recognized Indian Univs., and be registered on the books of the G.M.C.

Armstrong College: Foreign or Colonial students must have passed in their own country an examn. of English matriculation standard in the required subjects, and must have a sufficient knowledge of English to profit by the proposed course of study. In the case of Indian students no examn. lower than the Interm. of an Indian Univ. will be considered for this purpose.

Bristol. A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matriculation Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matriculation at Bristol; if from an oriental country, he may submit evidence of previous education in his own country and of ability to follow instruction given in English. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matriculation.

Wales. Candidates who have qualified by examn. for a degree of an approved Univ. or College, or passed the Matriculation Examn. of the Swiss Univs., or the secondary school certif. examn. of the Transvaal Education Department in the subjects required by the Univ. matricn. regulations, or, if certified by a Constituent College as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Science of an approved Indian Univ., may matriculate without further examn.

Scottish Universities. Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided (1) their knowledge of English is sufficient to enable them to follow the courses of instruction with profit; and (2) if candidates for degrees in Engineering, they have a knowledge of Mathematics of a certain specified standard. Those whose native language is other than English

are required to pass an examn., oral and written, in this language, including set books. Students from India are subject to the further condition that they have passed the Intermediate Examn. in Arts or Science, as the case may be, in a recognized Indian Univ.

Certificates which would entitle the holder to enter upon a regular course of study leading to a degree in Arts, Pure Science, or Medicine in any of the Univs. or Colleges approved by the Assocn. of American Univs. (see Appendix XXV.) are recognized for exemption from the Prelim. examn.

As regards students from foreign European countries, the B. ès L. and B. ès Sc. and similar " certifs. of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country " are accepted subject to the above-mentioned conditions as to knowledge of the English language. Certain Egyptian, Argentine and Chinese certifs. are also recognized. Provision is not made specifically for the acceptance of other foreign certifs., but the Board has a general dispensatory power in regard to applicants of not less than 21 years of age who satisfy it as to their fitness.

N.B.—In each Univ. the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

A Certificate submitted as proof of title to admission to Univs. abroad should be accompanied by an authenticated declaration by a Government Official or Official of an Agency-General, Embassy, Legation, or Consulate of the country to which the applicant belongs, testifying that it has the alleged value. If in a foreign language, certificates should be accompanied by certified English translations.

Belfast. Matriculated students of Univs. outside the British Isles may send written statements and certifs. which should, as a rule, cover all subjects required for matricn. in the Faculty concerned. When a certif. in any subject is not available, other evidence of proficiency may be furnished. The Matriculation Examn. of the Joint Matricn. Board of the Univs. of S. Africa is accepted as equivalent, subject for subject, to the Belfast Matricn. Examn. Entrants who are graduates of a British Univ. are not required to pass the Matricn. Examn.

Dublin admits students who have passed the Matricn. Examn. of any Univ. in S. Africa including English, Mathematics, Latin, and one other approved language. The Senior Lecturer is empowered to exempt from the Matriculation Examn. any student who has passed in the subjects required at matriculation at a public examn. which is, in his opinion, of equivalent standard. See, however, p. 306 regarding compulsory subjects in Arts course.

National University of Ireland. The Senior Public Examns. of Sydney, Melbourne, and Adelaide, the Jaffa Gymnasium Maturité, and the Matricn. Examns. of Sydney, Melbourne, and New Zealand, and of the Matricn. Board of S. Africa, are recognized as qualifying for exemption from the Matricn. Examn. The Matricn. Examns. of other Univs. in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn. in Arts or Science.

XXIV

INTER-UNIVERSITY SCHOLARSHIPS AND GRANTS FOR ADVANCED STUDY AND RESEARCH

Under the heading " SCHOLARSHIPS, ETC.," will be found in the sections of the Yearbook relating to the several Universities information regarding the extent to which they provide for the promotion of advanced Study and Research by the offer of Scholarships, Fellowships, etc., to their own graduate members. In this Appendix are given particulars of some other aids.

(i.) Funds administered by Universities and Colleges.
(ii.) Funds administered by the Board of Education and Local Education Authorities.
(iii.) Royal Commission for the Exhibition of 1851.
(iv.) Beit Memorial Fellowships for Medical Research and Beit Fellowships for Scientific Research.
(v.) Gilchrist and Sir Richard Stapley Educational Trusts.
(vi.) Funds administered by the Royal Society.
(vii.) British Academy, British Association, and Royal Institution.
(viii.) British School at Rome ; British School at Athens.
(ix.) Marine Biological Association.
(x.) Ramsay Memorial Fellowships.
(xi.) Albert Kahn Travelling Fellowships.
(xii.) Empire Cotton Growing Corporation's Research Studentships ; Free passages to Australasia ; Teachers' visits to America.
(xiii.) Cancer Research Funds.
(xiv.) Engineering and Naval Architecture Scholarships.
(xv.) Johnston Chemical and Salters' Institute Fellowships.
(xvi.) Grocers' Company Sanitary Science Scholarship.
(xvii.) Kitchener Scholarships.
(xviii.) Imperial Order Daughters of the Empire Scholarships.
(xix.) Central Bureau Loan Fund.
(xx.) British Empire Exhibition (1924) Fellowships.
(xxi.) Sir George Watson Chair of American History, etc.
(xxii.) American University and College Scholarships.
(xxiii.) French University Scholarships.
(xxiv.) Federations of University Women.
(xxv.) Government Grants and Co-ordinating Agencies.
(xxvi.) Ministry of Agriculture and Fisheries.
(xxvii.) Medical Research Council.
(xxviii.) Research in the Colonies.
(xxix.) Research in Canada, Australia, and Africa.
(xxx.) Research in India.
(xxxi.) Research in the U.S.A.

(xxxii.) Research in France.
(xxxiii.) International Foundations and Organizations for Research.

For *Rhodes Scholarships*, v. p. 205 ; for *Carnegie Trust* for the Univs. of Scotland, p. 259.

Information regarding centres of research may be obtained from the Universities Bureau, 50 Russell Sq., London, W.C.1.

(i.) FUNDS ADMINISTERED BY UNIVERSITIES AND COLLEGES

BIRMINGHAM: *Bowen Scholarships in Chemistry* (3), *Metallurgy* (1), *and Engineering* (2), £95 each. Open to candidates who have spent 3 yrs. in a Univ., preferably Birmingham.

CAMBRIDGE: *Almeric Paget Studentship*, £150, for Polit. Sc., Economics, etc., open to graduates of any Univ., or those about to graduate. Election after examn. (English Essay and questions on Polit. Hist. and Econ.). Applications, with 3 testimonials, evidence as to graduation and signed statement of age and proposed course of study, receivable up to July. Student to come into residence at Corpus Christi Coll. for the academic year succeeding election.

F. W. Maitland Memorial Fund. Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc., connected with these subjects.

Whewell Scholarships in International Law, one of £100 and one of £50, open to all persons whether already members of the Univ. or not who are under 25, tenable for 2 yrs. in the Univ.

J. L. Walker Studentship in Pathological research, £300 p.a. for 3 yrs. Candidate need not necessarily be a member of the Univ. Awarded for 1924–27 to H. W. Florey, B.A. Ox., M.B. Adel.

Balfour Studentship in Biological research, especially in Animal Morphology, £300 p.a. for 3 yrs. ; student need not be a member of the Univ., but must study in it for at least 3 terms.

Hort Memorial Fund, £65 p a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith.

Gordon Wigan Fund, £300 p.a., for scientific educn. or research.

Worts Fund for investigations in foreign countries respecting religion, laws, etc., or geographical discovery or antiquarian research therein.

Busk Studentship in Aeronautics, £150. Open to any man or woman being a British subject and of British descent under 25 yrs. of age. Address the Prof. of Aeronautical Engineering, Engineering Laboratory, Cambridge. Awarded in 1924 to J. C. Stevenson of Glasgow Univ.

Clare College Research Studentships, £125 p.a., not more than two at a time; graduate members of any Univ. may be elected, but preference to members of the College.

Emmanuel College Research Studentship. Value £150 p.a., tenable for 2 yrs. Open to a graduate or other qualified student, not less than

21 yrs. of age, from another Univ. beginning Research at Cambridge (v. p. 57). Applications should reach the Master not later than July 31, and should be supported by two certificates of character, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research.

Rooms in the College are reserved for the Lionel de J. Harvard Memorial student nominated by the President of Harvard Univ.

Peterhouse Research Studentship (Abercrombie Smith), £150 p.a. for 2 yrs. Open to graduates of any British or Foreign Univ. intending to proceed to Ph.D. degree. Applications receivable by Tutor up to July. Awarded in 1925 to H. S. Pruthi.

Trinity College Research Studentship and Dominion and Colonial Exhibitions. A Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £200 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge. Open to men who have graduated or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student (minimum age, 21 ; v. p. 57) and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, should reach the Senr. Tutor not later than July 25.

The *Exhibitions* for students residing in the Dominions and Colonies, annual value of £40, which may be increased by remission of College fees to £72 in cases of special need, are tenable for 2 yrs. and possibly for 3. Candidates must apply through the principal authority of the Univ. to which they belong. The Univ. authorities, if they think fit to forward an application, the candidate being in their opinion of marked ability and one of whom it may be confidently expected that he will profit by a further period of Univ. study, will send with it certificates of birth and character, record of scholastic career, etc.

Girton College Research Fellowships.—1. *Science.* £300 p.a. for 3 yrs. (renewable up to 6 yrs.) for research in Math., Physical and Nat. Sciences. 2. *Arts* (Pfeiffer Fellowship). £250 for 3 yrs. (renewable up to 6 yrs.) for research in Language and Lit., Moral and Polit. Sc., or History. Open to women who are graduates or have taken Honours in a final degree examn. of any Univ., and members of the Girton College Roll. 3. *First Girton,* £300 p.a. Fellows in 1925: 1. Miss M. E. J. Chandler; 2. Miss H. M. Cam, M.A.; 3. Mrs. Arthur Strong, Litt.D. (T.C.D.).

LEEDS: *Textile Research*—v. p. 85. LIVERPOOL: *Garrett International, Johnston Colonial, Lloyd's Register*—v. p. 96.

LONDON: *Dixon Fund for assisting Scientific Investigations.* Income available for grants—about £275. Applications receivable by the Principal between April 1 and May 15. Full information required as to nature and objects of research proposed, estimated amount required for it (detailed estimate to be given), any previous grant received

for same object, what apparatus of permanent value will be needed. Names of two referees to be given. Instruments, specimens, etc., purchased out of grants to be returned to the Univ. Published results of researches to refer to the Fund, and 25 copies to be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

Charles Graham Medical Research Fund. A Scholarship in Pathology, value not exceeding £300 p.a. for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work. Scholar for 1924–26 —N. D. Ball, M.B.

Keddey Fletcher-Warr Studentships for Post-Graduate Research in Science. Value £200 for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the Public Press.

Rogers Prize, £100, offered from time to time, for an Essay on a *Medical* or *Surgical* subject, named and appointed by the Univ. Open to all whose names appear on the Medical Register of the U.K.

Meyer Studentships in History and Geography of India. Endowment, £3000, tenable at Univ. College by graduates of Univs. of the British Empire studying for approved higher degrees in the Univ. of London.

Imperial College. Dominion Science Scholarships, 1924–25, £300 each, for graduate students (2) from the Univs. of each of the Dominions, Canada, Australia, New Zealand, S. Africa, and India.

London School of Economics. Research Studentship, open to graduates, £200. Metcalfe studentship, £60, open to any *woman* graduate of any Univ. of the United Kingdom.

Bedford College for Women. £150 for women graduate students of Sociology.

Westfield College (for women). Two research studentships open to graduates of any Univ. Value, £30 and £50 respectively, *plus* free board and lodging at the College (see p. 147). Applications, receivable in the Lent Term (in 1925—up to Feb. 20) for studentship for the ensuing academic year, should be accompanied by 3 copies of 3 testimonials and names of 2 references.

MANCHESTER: *Chemistry, Economics, Engineering, etc.*, v. p. 182.

OXFORD: *Philip Walker Studentship for Research in Pathology.* £200 p.a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men.

Weldon Memorial Prize (endowment, £1000), awarded once in 3 years, for contribution in 6 preceding years to *Biometric Science.*

Lady Margaret Hall. Susette Taylor Fellowship for independent study abroad.

WALES. *Aberystwyth University College.* Scholarship open to students of the Univ. of *Paris.*

ROYAL COLLEGE OF PHYSICIANS, London: *Streatfeild Scholarship,* £250 for 3 yrs. for research in Medicine or Surgery.

SCOTTISH UNIVS., *Ferguson, M'Cunn, Shaw,* v. p. 259.

GLASGOW: *Stevenson Citizenship Fund,* £20,000, established 1921 to provide for instruction, study, inquiry, and research, and thereby to emphasize the compatibility of civic or local with national patriotism and of both with full and free international co-operation. V. p. 283, Univ. Extension.

BELFAST: *Musgrave Research Studentships,* £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology.* Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—July 1.

BRITISH COLUMBIA. Three scholarships of $1200, each tenable for 5 years at French Univs., were presented in 1924 by the Lieut.-Govr. of the Province.

MCGILL: v. p. 362. TORONTO: *Mickle* Fellowship (endowment $25,000) awarded to a member of medical profession as reward for advancement of practical knowledge in med. art or science. Four of $500 with free tuition for M.A. or Ph.D.; preference to graduates of Canadian Univs. outside Ontario. Eight of $500 (tutorial fellowships) open to graduates of any Univ. V. also p. 409. The Mickle Fellowship was awarded in 1924 to Sir James Mackenzie, Consulting Physician to the King in Scotland (since deceased).

(ii.) FUNDS ADMINISTERED BY THE BOARD OF EDUCATION

Whitworth Scholarships. Six of £125 p.a. for 3 yrs. and two of £250 for 2 yrs.; open to British subjects under 21 and 26 years of age, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months; awarded on result of examn. held in May. Applications receivable up to Feb. 1. Regulations with syllabus obtainable (2d.) from H.M. Stationery Office, Kingsway, London.

Science Scholarships tenable at Imperial College of Science. Examn. in April-May, open to British subjects. Number, value, and tenure vary. In 1924 twenty "Royal Scholarships" carrying maintenance £60-£80 p.a. and free tuition, and 11 free studentships were awarded. The examn. includes drawing and 5 alternative groups of other subjects: (*a*) Engineering, (*b*) Physics, (*c*) Chemistry, (*d*) Biology, (*e*) Geology. The number of competitors and the number of awards in each group were: (*a*) 102, 10; (*b*) 42, 7; (*c*) 29, 9; (*d*) 1, 0; (*e*) 4, 1. Syllabus obtainable (6d.) from H.M. Stationery Office, Kingsway, London.

ROBERT BLAIR FELLOWSHIPS IN APPLIED SCIENCE AND TECHNOLOGY

Two awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs. of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 30.

SCHOLARSHIPS FOR ADULT STUDENTS ENGAGED IN INDUSTRY

The Education Committee of the Lancashire County Council in 1925 offer Scholarships (1 or 2) of value probably not less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. The Scholarships will be tenable for a year and renewable for a year or two more. The Scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved institution. Entry forms obtainable from the Director of Educn., County Offices, Preston.

(iii.) SCHOLARSHIPS AWARDED BY THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851

I. *Science Research Scholarships offered to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 years to research work under conditions most likely to equip them for practical service in the scientific life of the Empire. Value, £250 p.a., with supplements in certain cases, tenable ordinarily for 2 yrs., renewable in exceptional cases for a third year, at any institution approved by the Commrs., but not, except in very special circumstances, in the Dominion in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) over 26 yrs. At present not less than 8 (Canada 3, Australia 2, S. Africa, N.Z., and Irish Free State, 1 each) are offered annually; recommendations receivable (South Africa, Irish Free State, May 1) (Australia, N.Z., and Canada, June 1) from the following Univs.: Alb., B.C., Dal., McG., Manit., Queen's (Ont.), Sask., Tor., and any of the Univs. of Australia, N.Z., S. Africa, and the Irish Free State. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs. Recipients in 1924: G. I. Hoover (Toronto), R. H. F. Mauske (Queen's), D. C. Rose (Queen's), P. G. Carter (Sydney), N. B. Lewis (Melbourne), G. Myers (N.Z.), F. W. R. Brambell (Dublin).

II. *Senior Studentships*, at present 5 in number, each of £400 p.a. with supplements in certain cases, for 2 yrs. or, in special cases, for longer; open to British subjects of age not (except in very special circumstances) more than 30 yrs, on recommendation, receivable up to May 1, by Profs. and Heads of Depts. through the executive authorities of such Institutions as may be invited by the Commrs. to nominate; tenable at any Institn. at home or abroad approved by the Commrs. The Student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs., be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Commrs. may modify the value of the studentship. Recipients in 1924. T. M. Cherry (Maths.), Cambridge; M. Dixon (Biochem.), Cambridge; R. D. Haworth (Org. Chem.), Oxford; R. W. Lunt (Phys. Chem.), London; G. M. Morant (Anthropology), London.

III. *Post-graduate Scholarship in Naval Architecture.* £250 p.a. for 2 yrs. for research work (for which no emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have passed with marked distinction through a course of study and practical training in N.A. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or Armstrong College. The nominations are reported on by the Council of the Inst. N.A. Recipient in 1924: J. L. Taylor (Durham).

IV. *Industrial Bursaries* of not more than £150 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British subjects under 25 recommended from one of the Univs. of Gt. Britain, including the Imperial Coll. of Sc. and Tech., Heriot-Watt Coll., or Univ. Coll., Nottingham. A candidate must have been a *bona fide* student of Science for a term of 3 yrs., should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within 1 month of election obtain, an industrial post to be approved by the Commrs., and is in need of pecuniary assistance to enable him to hold such a post. Twenty-seven bursaries awarded in 1924.

V. *Rome Scholarship in Architecture*, £250 p.a. for 3 yrs. Open to British subjects under 27 by competition conducted by the Faculty of Arch. of the School at Rome. A Student or Associate of the R.I.B.A. who is placed next in order of merit to the winner will be recommended for the Jarvis Studentship of £250 p.a.

Rome Scholarships in Sculpture and in Decorative Painting, £250 p.a., tenable for 3 yrs. at the British School at Rome. Open to British subjects under 30 and 27 respectively by competition conducted by the Faculties concerned. The Faculty of *Engraving* administers a Scholp. of the same value. Recipients in 1924: Archit., none; Sculpture, J. R. Skeaping (R.A. Schools); Painting, Robert Lyon (R.C.A.); Engraving, W. E. C. Morgan (Slade).

General. Women are eligible for all the Scholps. except III. and IV. Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7. Entries for the Rome Scholps. are receivable up to October 15 (Architecture), December 31 (Ptg., Sculp., and Engraving) by the Hon. General Secy., British School at Rome (same address).

(iv.) BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH

Founded in 1909 by Sir Otto Beit, K.C.M.G., in memory of his brother Alfred, " to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Six, each of £350 p.a. and usually tenable for 3 yrs., with a possible extension of 1 yr. at £400, are awarded in July. Open to graduates, men or women, in any Faculty of a British Univ. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £600 p.a. tenable for 3 yrs. may also be awarded to persons who have already held Junior Fellowships. Special grants have been made from time to time for, or in aid of, particular objects of research. *Address* of Hon. Sec. to the Trust—Sir James K. Fowler, K.C.V.O., C.M.G., 35 Clarges St., Piccadilly, London, W.1. Fellows elected in 1924: Margaret A. Boas, B.Sc. Lond. (Lister Inst.); H. Cohen, M.B. Liverpool; Miss H. B. Fill, B.Sc. Edin. (Cambridge); H. F. Holden, M.A. (Cambridge); A. S. Parkes, B.A. Camb., Ph.D. Manc. (Univ. Coll., London).

BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH

Founded by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £250 p.a. for 1 yr. with possible maximum extension of 1 yr. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College. Fellows for 1924–25: O. M. B. Bulman, W. E. Downey, L. A. Harvey, and R. Quarendon of R.C.Sc.

(v.) GILCHRIST EDUCATIONAL TRUST

Most of the Scholarships, etc., awarded by the Trust are for students of particular institutions. The following are not so restricted :

Scholarships in *Turkish* (1) and *Chinese* (1). £50 tenable at the School of Oriental Studies, London, or, in the case of a student of the School of 1 yr.'s standing, in an Oriental country. Open to candidates of European origin. Awarded on results of an examn. held in July in Grammar, History of the Language and its Relationships, 2 set books, unseen translation. Applications (in a prescribed form) receivable by the Director of the School up to May 15.

Several Scholarships of £30 tenable for 1 yr. in a *Training College for Women*. Open to graduates of a British or other recognized Univ.

Studentship tenable at the *British School at Rome*, £75 for 1 yr. At least 5 months to be spent in Rome. Open to men and women under 25 for a definite course of study for which Rome offers advantages and calculated to assist them in their profession. Applications with statement of previous training and proposed course, copies of not more than 3 recent testimonials based on personal acquaintance with candidate and his work, and any references, should reach the Secy. of the School, 19 Bloomsbury Sq , London, W.C.1, by July 31st.

Scholarship in *Economics and Home Science*. £50 tenable for 1 yr. at King's College for Women, London. Open to graduates of any approved Univ. or students who have successfully completed the 3 yrs.' course in these subjects. Evidence required of knowledge of not less than 2 of the following : Bact., Biol., Chem., Economics, Physics and Hygiene, Physiol., Psychol. Applications with account of educational career and not more than 3 recommendations should reach the Warden by June 8.

Studentship in *Geography*. £80 (in special cases, £100) for a definite course of advanced work extending in general over 9 mos., to be approved by the Trustees. No other work to be undertaken without written consent of the Trustees during the tenure of the Studentship. Open to Teachers of either sex who have had experience in teaching Geog. Applications, stating age, career, training in Geog., experience in teaching Geog., proposed work, time to be devoted to it, name of Headmaster, etc., to whom reference can be made, to reach Prof. Lyde, University College, Gower Street, London, W.C 1, by Feb. 1. The student is required to sign a declaration of intention to continue to be a teacher of Geog. for 2 yrs. after expiry of the Studentship.

Address of the Secy. to the Trustees : 1 Plowden Buildings, Temple, London, E.C.4.

SIR RICHARD STAPLEY EDUCATIONAL TRUST

Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In five years it has assisted between 600 and 700 students at universities. In 1924 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities. *Address*—33 Bloomsbury Sq., W.C.1.

(vi.) FUNDS ADMINISTERED BY THE ROYAL SOCIETY

Foulerton Research Fund. (*a*) Research Professorship, the stipend being £1400 p.a. *Duties*: To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Prof. shall devote the whole of his time to research. Tenable for 5 years in the first instance, the appointment being thereafter renewable for further periods of not more than 5 years at a time. (*b*) Research Studentship of £700 p.a., restricted to British subjects. *Duties*: To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Committee, to whom the student will be required to report from time to time on the progress of his work. Tenable for 3 years and renewable from year to year, with a maximal total tenure of 6 years from the first award. Incumbents: (*a*) Prof. E. H. Starling (v. p. 117), (*b*) Dr. H. W. C. Vines (v. p. 45).

Yarrow Research Professorships for research (whole-time) in Math., Physical, Chem., or Engineering Sciences. Value, £1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 years, the appointments being renewable for further successive periods of 5 years. Incumbents: Prof. A. Fowler, Prof. G. I. Taylor, and Prof. O. W. Richardson.

Mackinnon and Moseley Research Studentships. Each of the value of £300 p.a. Tenable in the first instance for 2 years, but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 years. *Mackinnon Studentship* for "furthering Nat. and Physical Sc., including Geol. and Astron., and . . . original research and investigation in Path." *Moseley Studentship* for "the furtherance of experimental research in Path., Physics, and Chem., or other branches of science, but not in Pure Maths., Astron., or any branch of science which aims merely at describing, cataloguing, or systematizing." Incumbents: L. T. Hogben, D.Sc., and P. M. S. Blackett.

Sorby Research Fund for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield. The last appointment, 1921: N. K. Adam, M.A.

For all the above appointments applications are invited by public advertisement.

Scientific Relief Fund (income about £700 p.a.) to aid scientific men or their families requiring assistance.

Minor Funds: Tyndall Mining Research, income about £35 p.a., for a studentship; Gunning, about £30 p.a.; Joule, about £50 p.a.; Lawrence, about £160 p.a., for research in Diseases in man and animals.

Government Grants for Scientific Investigations. The conditions are notified annually in time for applications to be received by Jan. 1.

Only British subjects are eligible. Appropriations in 1924 numbered 126, the amounts ranging between £5 and £450.

Medals. Copley, for Philosophical research (any country); Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe; Royal, for advancement of National Knowledge; Davy, for Discovery in Chemistry in Europe or Anglo-America; Darwin (with grant of £100, biennial), for work in Darwinian field; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice; Sylvester (with money grant, triennial), for Mathematical Research; Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The 4 last are open to foreigners as well as to British subjects.

Address of the Society—Burlington House, Piccadilly, London, W.1.

(vii.) BRITISH ACADEMY

Rose Mary Crawshay Prize for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats. *Address*—Prof. Sir I. Gollancz, King's College, Strand, London, W.C.2.

Cromer Greek Prize, £40. Open to British subjects under 26. Address—The Secretary of the British Academy, Burlington House, Piccadilly, London, W.1.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Research Committees of the Association are constantly at work either conducting researches or preparing reports. Committees of the Sections concerned with different departments of Science consider *inter alia* the financing of proposed researches by such Research Committees. *Address* of the Assocn. — Burlington House, Piccadilly, London, W.1.

ROYAL INSTITUTION OF GREAT BRITAIN

Davy-Faraday Research Laboratories, 20 Albemarle St., London, W.1. Director—Sir Wm. Henry Bragg, K.B.E., M.A., D.Sc., F.R.S.

(viii.) BRITISH SCHOOL AT ROME STUDENTSHIPS

In addition to the scholarships mentioned above under (ii.) V. and (v.) a Studentship (Bernard Webb) worth not less than £250, tenable for one year, is offered for the encouragement of the historical and critical study of Architecture; open to students not over 32 years of age who have been members of the Archit. Assocn. for 4 years. Student for 1923—Miss I. M. Chambers. The Pelham Studentship in Archæology (£100), awarded by the Univ. of Oxford, is open only to members of that Univ.

BRITISH SCHOOL AT ATHENS STUDENTSHIP

A studentship of value £100 tenable for one year is placed at the disposal of the Univs. of Oxford and Cambridge alternately. All students admitted to the School are expected to spend at least 3 months in Greece and to be engaged on some research work. They can, on payment of a small rent, reside in the School *Hostel*, and are admitted to use of the library. They also obtain special facilities for working in Museums and in travelling. Students of the British School at Rome are *ipso facto* admitted as students at Athens. *Address* of the Secy., 19 Bloomsbury Sq., London, W.C.1.

(ix.) MARINE BIOLOGICAL ASSOCIATION

A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs. of Oxford and Cambridge) and Founders of the Marine Biological Assocn. of the United Kingdom. The Ray Lankester Fund provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. For full particulars application should be made to the Director of the Laboratory, Citadel Hill, Plymouth.

ZOOLOGICAL SOCIETY'S RESEARCH FELLOWSHIPS

One (Milner) in Comparative Pathology, value £800 p.a., awarded in conjunction with the London School of Hygiene and Trop. Med. Fellow in 1925, Dr. H. H. Scott of the London School. One of £350 (Aquarium Research) awarded in 1925 to Dr. F. P. Stowell of the Univ. of Liverpool.

(x.) RAMSAY MEMORIAL FELLOWSHIPS

The Trustees (Chairman, Sir Hugh Bell, Bt.; Secy., Dr. Walter W. Seton, University College, Gower St., London, W.C.) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs., for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the undermentioned Dominion and Foreign countries. The value in each case is £300 a year, except that the Japanese is £460. Fellows for 1924–25: British —S. Coffey, Ph.D.; A. F. Titley, D.Phil.; S. W. Saunders, B.Sc.; T. S. Stevens, B.Sc. (Glasgow). Canadian—E. H. Boomer, Ph.D. Danish—K. J. Pedersen. Dutch—Dr. J. Kalff. French—M. Marcel Mathieu. Greek—Dr. N. Oeconomopoulos. Italian—Dr. A. Nasini. Japanese—Dr. Kameyama. Norwegian—Mr. L. Lindemann. Spanish —Dr. Miguel Crespi. Swedish—Mr. E. G. Rudberg, Phil.Lic. Swiss—Dr. Walter Feitknecht.

(xi.) ALBERT KAHN TRAVELLING FELLOWSHIPS

Founded by M. Albert Kahn of Paris " to enable men of proved intellectual attainments to enjoy during one yr. or more sufficient leisure and freedom from all professional pursuits or pre-occupations to enter into personal contact with men and countries they might otherwise never have known; to issue from the world of books and their narrow sphere of habitual interests into the broader world of various civilizations, and all such human interests, struggles, and endeavours as go to the making of general civilization." Value £660 (namely, £600 for travelling expenses and £60 for books and souvenirs), temporarily increased to £1000. Open to British subjects, men or women, who have graduated, or qualified for graduation, at a Univ. in the U.K. No age limit is imposed, but preference will probably be given, other things being equal, to persons between 25 and 35. Elections are made not later than May 31 each yr. on nominations made by any of the Vice-Chancellors of the Univs. in the U.K., or the President of the Royal Society, or the President of the British Academy. *Address* of the Secy. to the Trustees (F. J. Port, LL.B.): University of London, South Kensington, S.W.7. Fellow for 1924–25: B. Ifor Evans, M.A. (Lond.), nominated by the V.-C. of the Univ. of Manchester.

(xii.) EMPIRE COTTON GROWING CORPORATION'S RESEARCH STUDENTSHIPS (v. also p. 670)

In 1924 twelve were offered to provide opportunity for men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, mycology, entomology, etc. Value £250 each, with additional allowances for books and travelling expenses. A number of studentships for graduates will be offered in 1925.

(xiii.) CANCER AND TUBERCULOSIS RESEARCH FUNDS

The *Imperial Cancer Research Fund* (capital £131,000), which is under the direction of the R.C.P. London and the R.C.S. England, has research laboratories and publishes reports of researches. Lord Atholstan has promised the sum of £20,000 in 10 instalments for special researches to be carried out by it. An anonymous donor has founded an " Alice Memorial Fellowship " for Cancer Research amounting to £500 per annum, under the auspices of the Fund. *Address*— 8-11 Queen Square, London, W.C.1.

Lord Atholstan has also offered a prize of $100,000 to the graduate or student of any recognized Univ. who, within 5 years from the date of his offer (1921), is the first to discover a medicinal treatment for the effective cure of cancer. The decision to be left to the R.C.P. London and the R.C.S. England.

In 1924 Lord Atholstan offered to contribute $500,000 towards an *anti-consumption* campaign to be undertaken by the Quebec Government.

The British Empire Cancer Campaign was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from the Imperial Cancer Research Fund and from each of the principal hospitals with cancer research departments. Chairman, Viscount Cave, G.C.M.G. The Scientific and Advisory Committee of the Campaign is set up jointly with the Royal Society and the Medical Research Council of the Privy Council and the Campaign. *Address*—Sir Richard Garton, G.B.E., Hon. Secy., 19 Berkeley St., London, W.1.

Information as to Cancer Research at Middlesex Hospital, at Manchester, and at Aberdeen is given on pp. 162, 176, 264.

(xiv.) ENGINEERING AND NAVAL ARCHITECTURE

[See also (ii.) and (iii.) III.]

THE INSTITUTION OF NAVAL ARCHITECTS, 5 Adelphi Terrace, London, W.C.2, offer for 1925 scholarships tenable 4 years at Glasgow Univ., 3 years at Armstrong College, Liverpool Univ., R.N. College, and City and Guilds (Engineering) College, London. In Naval Architecture, one of the value of £150 p.a.; in Marine Engineering, 2, £150 and £100 p.a. Open to British apprentices or students. Also one in Marine Engineering, of the value of £75 p.a. Open to Public School or Secondary School boys under 19 (British subjects) who have not begun their apprenticeship.

NORTON AND GREGORY LD., 1 and 2 Castle Lane, Westminster, London, S.W.1, offer scholarships in Engineering, one of £100 p.a. and one of £50 p.a., tenable for 3 years at any Univ. in the U.K. or British Dominions. Open to candidates domiciled in U.K. aged 17-19. Applications receivable up to Jan. 31, 1925.

The BRITISH ELECTRICAL AND ALLIED MANUFACTURERS' ASSOCN., 36 Kingsway, London, W.C.2, granted in 1924 10 scholarships in Engineering of £100 *plus* college fees tenable at Univs. and Univ. Colleges in Great Britain. Open to apprentices or students of British birth.

(xv.) JOHNSTON CHEMICAL SCHOLARSHIP

Value £150 for 1 yr., awarded on the results of an examn. in Chem. with Crystallography or Mineralogy, and tenable at Armstrong College, involving at least 24 hours per week throughout the session. Open to B.Sc. of any British Univ. of not more than 3 yrs.' standing from graduation. Evidence of previous training and ability to conduct an original Chem. investigation is required. Awarded in 1924 to M. G. Thomson.

SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY

Fellowships, usually of the annual value of £250, are offered to graduates in chemistry who intend to enter chemical industry. Particulars can be obtained from the office of the Institute at Salters' Hall, St. Swithin's Lane, London, E.C.4.

(xvi.) GROCERS' COMPANY'S SCHOLARSHIPS

Three, £300 each, for 1 yr., renewable for 1 or 2 yrs., for inquiry into Causation of Prevalent Disease or as to means of Prevention of Premature Death. Cost of apparatus, etc., will be defrayed up to £300 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2. Held in 1925 by Mrs. S. D. Thompson, M.B. at Univ. of Liverpool; Eric Holmes, B.A., B.Ch., Cambridge School of Biochemistry; J. Mills, M.B., Pathological Laboratory, Cambridge.

(xvii.) KITCHENER SCHOLARSHIPS

For Study and Training. Maximum value in any year £200 for maintenance *plus* tuition fees and, in case of study abroad, approved travelling expenses. Maximum period, 6 yrs.; minimum age, 17. Open to sons of officers and men of H.M. Forces—as a rule, sons of deceased officers and men. Value and length of tenure will in each case be such as to enable successful candidates to undertake a complete course of advanced education at any Univ. or other approved institution. Scholarships are offered annually in Jan., conditions being advertised about the middle of the month. The number awarded in 1924 was 61.

Application for full information should be made to the Secy., Lord Kitchener National Memorial Fund, 34 Norfolk St., Strand, London, W.C.2.

(xviii.) IMPERIAL ORDER DAUGHTERS OF THE EMPIRE SCHOLARSHIPS

Undergraduate, 36, held in Canadian Univs. by sons and daughters of deceased or totally disabled soldiers and sailors. Graduate, 4, held at Oxford in 1923–24. *Address* of the Order—Dominion Bank Chambers, 238 Bloor Street East, Toronto.

(xix.) CENTRAL BUREAU LOAN FUND

The Central Employment Bureau for Women and Students' Careers Association (incorporated), 54 Russell Square, London, W.C.1, has established a fund to help educated women who must be self-supporting, and are without the means of paying for training or for adequate preparation. For University Education, Research Work, Training as Teachers and Training in Medical Work, Midwifery, Nursing, and Massage, 50 loans amounting in the aggregate to £2662 were made in 1924.

(xx.) BRITISH EMPIRE EXHIBITION (1924) FELLOWSHIP

A subscription of 2 guineas entitles to membership of this organization and admission to the exhibition at all times. A percentage of

the funds will be used to grant scholarships for Empire settlement and education. *Address*—16 Grosvenor Gardens, London, S.W.1.

(xxi.) SIR GEORGE WATSON CHAIR OF AMERICAN HISTORY, LITERATURE AND INSTITUTIONS

Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each yr.'s course will usually comprise about 6 lectures by an eminent authority, American or British. The courses will be given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O.M., in July 1921. This has been published in England by the Cambridge Univ. Press, together with the lectures of 1922 by Dr. A. T. Hadley (ex-President of Yale) and of 1923 by Dr. Nicholas Murray Butler (President of Columbia). In 1924 Prof. A. F. Pollard of University College, London, lectured on Factors in American History. The Lecturer for 1925 is Sir Robert Falconer, President of Toronto University, Canada, who will take as his subject, "The United States as a Neighbour." The foundation is administered by the Sulgrave Institution and Anglo-American Society, 1 Central Buildings, Westminster, London, S.W.1.

(xxii.) AMERICAN UNIVERSITY AND COLLEGE SCHOLARSHIPS FOR BRITISH STUDENTS (v. also p. 670)

Rose Sidgwick Memorial Fellowship. Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of University Women. Value $1000 (providing tuition and residence during term for 1 yr., and about $400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. English friends of Rose Sidgwick have raised a fund to supplement the Fellowship by providing for outfit, etc., in case of need up to £30. Open to British women (preferably from 25 to 35 years of age) of graduate standing. Applications (with 6 copies of not more than 2 recent testimonials and 2 references) giving date of birth and information as to qualifications, experience, work proposed to be done during tenure of Fellowship, and any experience of speaking in public, should be sent before May 1 to the Secy., British Federation of Univ. Women, 92 Victoria St., London, S.W.1. The award is made on the nomination of the Committee on International Relations of the Federation.

Choate Memorial Fellowship, $1850, of the Harvard Club of New York City, 27 West 44th Street. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb. to study in any department of Harvard Univ. 1924–25—L. H. Titterton, B.A. St. John's.

Clarence Graff Fellowship, £250 *plus* tuition fees, open to unmarried men, graduates of Oxford or Cambridge, for advanced study at an institution of learning in the American Middle West (between the Allegheny and Rocky Mountains). Preference to candidates who have had a liberal university training and whose interests are humanitarian rather than commercial or narrowly scientific, the object being to foster a better understanding in Great Britain of social conditions and currents of opinion in the U.S.A. and to establish friendly contacts.

Henry P. Davison scholarships (6), $1500 *plus* tuition fees (about £50) tenable at Harvard, Yale, and Princeton, for one year. Open to Oxford and Cambridge undergraduates and B.A., unmarried, with preference to those in their second year intending to read for honours and to resume residence in their own (Oxford or Cambridge) Univ. Scholars are chosen on basis of character, scholarship, and fitness to represent the Univ. No examn. 1924–25: R. Hewick and C. L. Chamberlain to Harvard, W. D. Scott and C. R. N. Winn to Yale, J. A. Mackintosh and D. S. Heesom to Princeton.

Laura Spelman Rockefeller Memorial Fellowships, $1800 each *plus* travelling allowance. Awarded only to unusually able, mature graduate students in the Social Sciences (economics, sociology, and political science, principally; also history, psychology, and anthropology, etc.). Fellows are expected to be candidates for a degree in the institution in the U.S.A. in which they are studying whenever this is at all feasible. 8 fellowships were awarded in 1924 to students in Great Britain and Ireland for work at Harvard (3), Yale, Chicago, Washington, N. Carolina, and New York School of Social Studies.

SCHOLARSHIPS FOR WOMEN: BRYN MAWR COLLEGE. Three of $720 (covering fees for tuition and, during term only, board and residence during one academic year). Open to English, Scottish and Irish women qualified for graduate study. Applications receivable up to April 1. SMITH COLLEGE, Northampton, Mass.—Six fellowships, $500 and tuition, open to women graduates either of Smith College or of other Colleges of equal rank. *Rose Sidgwick*—v. *supra*.

UNION THEOLOGICAL SEMINARY, N Y. CITY. Fellowship in Theol., $1200 for 1924–25, for advanced graduate work. Open to theol. students of high grade in Great Britain of any ecclesiastical communion who have completed a regular theol. course. Applications receivable by the Rev. the Principal, Mansfield College, Oxford, Prof. G. S. Duncan, St. Mary's College, St. Andrews, or the Registrar of the Seminary. Latest date, May 31.

PRINCETON. Jane Eliza Procter Visiting Fellowships. Three of $2000 each annually, for 2 British scholars (to be nominated by the Univs. of Oxford and Cambridge) and 1 French, tenable for one year, with possibility of renewal, in Princeton Graduate College, for independent advanced study and investigation in purely liberal arts and sciences, exclusive of professional, technical or commercial subjects; open only to men holding a degree in distinctively liberal studies and of reasonably good health, high character, and exceptional scholarly power. Nomin-

ated in 1924: H. Butterfield (Camb.) and J. H. Wolfenden (Ox.). Also ten Charlotte Elizabeth Proctor Fellowships of $1200 each annually are open to duly qualified graduates of American, British and other univs. in the field of distinctively liberal studies. Applications for an ensuing academic year should be made directly to the Dean of the Graduate School, Princeton, New Jersey, U.S.A., before March 1.

MICHIGAN. *The Riggs Foundation* under the auspices of the English Speaking Union. Fellowships for British graduates. $1200 each, tenable in the Univ. of Michigan, one year. Preference to students of History and Economics. The Secretary to the American University Union, 50 Russell Sq., London, W.C.1, is Secretary to the Selection Committee.

Many American Universities having "Graduate Colleges" offer Research Scholarships and Fellowships of from $300 to $2000 p.a. which are ordinarily open to Foreign as well as to American students. Nearly all the American Univs. other than State Univs., and a few of the latter, offer each year fellowships of from $200 to $800 which are open to Foreign students. Most American Univs. close their scholarship lists about March 1. The Institute of International Education (522 Fifth Avenue, New York) published in 1923 lists of fellowships, etc., offered to Americans for study abroad and *vice versa*. These may be seen at the American University Union, 50 Russell Sq., London, W.C.1.

A tentative plan for the establishment of fellowships for British subjects in American Univs. which was formulated by President Frank Aydelotte of Swarthmore College, American Secretary of the Rhodes Scholarship Trust, in 1922, has, to some extent, been realized in the Laura Spelman Rockefeller and Commonwealth Fund Fellowships.

(xxiii.) FRENCH UNIVERSITY SCHOLARSHIPS

A scholarship of 8000 fr., open to Australians on the completion of studies in England. Office National des Universités et Écoles Françaises, 96 Bd. Raspail, Paris (6e).

"La Bienvenue Française," 33, Rue du Faubourg Saint-Honoré, founded in 1923, offers every scholastic year hospitality to one student of science of each of the following nationalities: French, British, Belgian, Italian, Czecho-Slovakian.

(xxiv.) INTERNATIONAL FELLOWSHIPS, ETC., OF FEDERATIONS OF UNIVERSITY WOMEN

The American Assocn. of University Women offers $1000 to enable a member of the International Federation of University Women to carry on a year's research in some country other than her own during 1925–26. Applications receivable up to March 1, 1925, through the Secretaries of the National Federations. Further information obtainable from the International Federation, 92 Victoria St., London, S.W.1.

Awarded in 1924 to Dr. Gertrud Ruud of the Univ. of Oslo. *Address*—Prof. Agnes L. Rogers, Smith College, Northampton, Mass.

The Canadian Federation has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the International Federation.

(xxv.) GOVERNMENT GRANTS AND CO-ORDINATING AGENCIES

The estimates for 1924–25 provided under the head "Scientific Investigation, etc.," £201,500, of which £140,000 was for the Medical Research Council—v. *infra* (xxvii.), £36,000 for the National Museum and Library of Wales, £9000 for the Royal Society—v. *supra* (vi.), £3000 for the Solar Physics Observatory, £3000 for the Edinburgh Observatory, and smaller sums for 10 other bodies.

The Mineral Resources Bureau (2 Queen Anne's Gate Buildings, London, S.W.1) undertakes, in addition to collecting, compiling and disseminating information, to advise on the development of mineral resources. The budget of the Bureau is about £8000.

The total expenditure estimated for 1924–25 of the DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH is £557,000. This included Headquarters Administration, £33,000, Research Boards and Committees, £84,500, Fuel Research Board, £51,000, Geological Museum and Survey, £63,000, National Physical Laboratory, £176,500, other grants for investigation and research, £48,000.

Grants to individual research workers (£48,000) are made on recommendations by individual professors. Notes on the conditions under which such grants are made were republished by the Dept. in 1923, price 2d., and the Annual Report of the Dept. for 1922–23 contains an explanation of the principles determining these conditions and an account of the working of the system (Cmd. 1937, price 4s.). During 1923–24 the Dept. made 244 allowances to students for training in research in Univs. and Colleges; 35 grants to research workers to undertake independent research or act as scientific assistants to investigators of standing; 12 grants to scientific workers to enable them to employ laboratory or clerical assistants or to purchase equipment. The system is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research.

Up to August 1924 the number of *Industrial Research Associations* licensed by the Dept. and in operation was 23.

Developments in the organization of research in the Overseas Dominions are described in an Appendix to the Report for 1923–24.

(xxvi.) MINISTRY OF AGRICULTURE AND FISHERIES

GRANTS FOR AGRICULTURAL (AND VETERINARY) RESEARCH. For some few years past the Ministry has awarded annually Research Scholarships (£200 p.a. for 3 yrs.) to assist promising students—usually honours graduates in Science of a British Univ.—to qualify as research

workers. In 1924, 11 were awarded to students of London, Leeds, Aberystwyth, Edinburgh, and Rowett Research Institute. In 1921 the Ministry instituted Travelling Research Scholarships for members of staffs of aided research institutions. In 1924 4 were awarded to members of the staffs at Cambridge, Leeds, Rothamsted, and Wye; in addition the Ministry met the expenses of the representatives of British Agr. Research at the World's Dairy Congress, America, the International Pedological Conference, Italy, and the International Poultry Conference, Spain.

The Ministry has allocated (with a view to the concentration at one institution or at institutions working in combination, of the scientific work in each of certain definite groups of subjects) grants-in-aid for the maintenance of research departments of institutions as follows: *Agr. Engineering*—Oxford Univ.; *Agr. Parasitology*—London School of Hygiene and Tropical Medicine; *Fruit-growing*—Bristol Univ., Cambridge Univ., East Malling Research Station (near Maidstone); *Animal Nutrition*—Cambridge Univ.; *Plant-breeding*—Cambridge Univ., University College of Wales, Aberystwyth; *Plant Physiology*—Imperial College of Science; *Economics of Agr.*—Oxford Univ.; *Dairying*—Univ. College, Reading; *Plant Nutrition and Soil Problems and Plant Pathology*—Rothamsted Experimental Station, Harpenden, Herts; *Crop Improvement and Seed and Potato Testing*—Nat. Inst. of Agr. Botany, Cambridge; *Animal Pathology*—Royal Vet. College, Camden Town, London, N.W.1, Cambridge Univ., and the Ministry's Vet. Laboratory, Addlestone, Weybridge.

In addition to the above, grants are made for research in Animal-breeding (poultry and rabbits) to Cambridge, Bee-culture to Rothamsted Exptl. Station, Glasshouse culture to Waltham Cross Research Station, Silver-leaf disease research to Camb. Univ., Testing new varieties of fruit trees to Royal Hortic. Soc.

A grant has also been made to enable the Agr. Depts. of the following institutions to supplement in cases calling for special scientific knowledge and training the advice usually given by members of the county Agr. Staffs: Armstrong Coll., Bristol, Cambridge, Leeds and Manchester Univs., Aberystwyth, Bangor, Cardiff, and Reading Univ. Colleges, Midland, S. Eastern (Wye), Harper-Adams (Newport), Midland (Sutton-Bonnington, Notts.), and Seale-Hayne (Newton-Abbot) Agr. Colleges. Grant for 1924–25, £40,000.

Special research grants amounting in the aggregate to £3150 for work in 1924–25 are being made to Cambridge, Leeds, and Bristol Univs., the Imperial College of Science, the London Sch. of Economics, London Univ. College, Rothamsted Experimental Stn., East Malling Research Station, Aberystwyth, Armstrong, Reading, S. Eastern Agr. (Wye), Midland and Bangor Colleges.

In a leaflet (197) issued by the Ministry in Sept. 1920 (amended Sept. 1924) information is given regarding some of the above-mentioned grants and generally regarding Agr. Education and Research in England and Wales. V. also p. 579.

FISHERY RESEARCH. Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for

advances from the Development Fund as follows: 1. *Grants-in-aid of the general work of Independent Marine Institutions*, to aid fundamental researches forming part of the Institution's continuous programme of work. Departments of a Univ. engaged principally upon education which may be eligible for grants administered by the Univ. Grants Committee are not as a rule eligible for these. Applications in prescribed form are receivable by H.M. Treasury up to Sept. 30 for grants to be made in the ensuing financial year. They will be referred to the Ministry for report, and may involve informal inspections by representatives of that Dept. and of the Development Commission.

2. *Grants for Specific Researches.* (*a*) Directed to definite economic ends of use to the Fishing Industry; or (*b*) "Free" researches. Communications with a view to grants under head (*a*) should be addressed to the Secretary to the Ministry. As regards grants to Instns. under head (*b*), the work may be carried on either by members of the staff or by workers temporarily attached to the Instn. or by research students working under the guidance of members of the staff, whose qualifications are approved and who are definitely recommended by the Head of the Institn. The Development Commrs. will also be prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff to prosecute special lines of inquiry. Applications should be addressed to H.M. Treasury and will be dealt with in the same way as those under par. 1. In special cases applications for grants under either (*a*) or (*b*) in respect of researches by workers not attached to any recognized Instn. may be considered.

The amount provided in the Ministry's estimates for 1924–25 for grants under 2 (*a*) was £825.

For detailed information regarding the promotion of scientific research by the DEVELOPMENT COMMISSIONERS (6A Dean's Yard, Westminster, London, S.W.1), reference should be made to their annual reports, obtainable from H.M. Stationery Office.

(xxvii.) MEDICAL RESEARCH COUNCIL

The Medical Research Council (15 York Buildings, Adelphi, London, W.C.2), formerly the Medical Research Committee established in 1914 under the Nat. Health Insurance Act, are now under the direction of a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. Grants are made to qualified investigators in respect of approved programmes of research work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches. Rockefeller Medical Fellowships tenable in the

U.S.A. are also awarded to graduates in medicine or related branches of science: the recipients for 1924–25 were—R. K. Cannan, J. J. Conybeare, J. R. Learmonth, Ethel M. Luce, J. W. McNee, and W. Robson.

(xxviii.) RESEARCH IN THE COLONIES

A Committee, appointed in Nov. 1920 by Lord Milner, then Secy. of State for the Colonies, to consider what steps could be taken to secure the assistance of the Univs. in carrying out research work for the Colonies and Protectorates, reported (Cmd. 1472, price 2d.) in April 1921 that there should be such substantial augmentation of scientific workers in our Univs. as will not only foster research among students but also enlarge the corps of scientific experts to whom the Empire may turn for help in the hour of need. They drew attention to the large number of appointments which the Colonial scientific departments offer to men adequately equipped for them (Agric. 254, Forestry 106, Analytical Chemists 18, Vet. 77, Geol. 20, Med. 649) and recommended that for appointments requiring research qualifications selection should not be by competitive examination but based on recommendations by Universities or Colleges.

The Imperial College of Tropical Agriculture is described on p. 417.

(xxix.) RESEARCH IN CANADA, AUSTRALIA, AND AFRICA

CANADA. An Honorary Advisory Council for Scientific and Industrial Research was constituted in Nov. 1916 under a sub-committee of the Privy Council of Canada which had been formed in the same year to have charge of all measures to foster the scientific development of Canadian Industries. It consists of 11 members chosen from the Univs., the Engineering Profession and the Industries of the Dominion. With the help of Associate Committees comprising over 140 of the leaders of science and industry it has undertaken or promoted important researches in regard to the utilization of peat and of low-grade lignites, methods of re-forestation, Canadian iron ores, action of alkaline waters on concrete, rust in wheat, and some 60 other subjects. By the foundation of *Bursaries*, *Fellowships* and *Studentships* tenable in Canadian Univs. provision is made each year for the training of young graduates in the methods of scientific investigation. On Feb. 20, 1922, the Administrative Chairman presented a report including, in addition to a general account of the work of the Council, special notes on overlapping and duplication of effort in scientific and technical work, and on proposals for a *National Research Institute*, for which the Government has made a special grant of $100,000. The expenditure of the Council in 1922–23 was $106,370, including $36,000 for fellowships, studentships, and bursaries for training research workers, and $33,000 for assisted researches.

A *Catalogue of Scientific Periodicals in Canadian Libraries*, prepared by G. R. Lomer, the Librarian of McGill Univ., and Margaret Mackay, Asst. Secy., Canadian Bureau of the International Catalogue of Scientific

Literature, was published in 1924 by McGill Univ. in co-operation with the Council.

The *Banting Medical Research Foundation* was established in April 1924 to raise funds for the support of the Banting and Best Chair of Medical Research at Toronto and for otherwise aiding medical research workers.

The Province of Ontario provides annually five scholarships of $1200, open to local graduates, for research study in France with a view to subsequent commercial, industrial, scientific, or professional work in the Province.

AUSTRALIA The *National Research Council* was founded in 1921 to represent Australia in the International Research Council, and also serves as a national academy of pure and applied science (all branches). It consists of Members (limited to 100) and Associates. An established reputation for original research is an essential qualification for election to either class. It works through an executive committee (R. H. Cambage, Mines Department, Sydney, Hon. Sec.) and numerous special committees, and also holds periodic general meetings. In 1923 it organized the Second Pan-Pacific Science Congress, which met in Melbourne and Sydney, and was attended by representatives of all the countries having interests in the Pacific area. [In 1926 another session of the Congress is to take place in Japan.]

The *Commonwealth Institute of Science and Industry* (Sir George H. Knibbs, C.M.G., Director, 314 Albert Street, East Melbourne) was constituted by Act of Parliament in 1921, a temporary organization having been active since 1916. It is concerned with the application of science to the Australian primary and secondary industries, and works in co-operation with the State departments, the Universities, and other institutions. Its own laboratories are as yet incompletely developed and staffed. It carries on a public information bureau, and was largely instrumental in the formation of an Australian Engineering Standards Association. It has published numerous bulletins on animal and vegetable pests, the utilization of native raw materials, etc. The Government grant to the Institute for 1923-24 was £21,356 In 1924 two of the most important investigations in progress were in connexion with the prickly pear pest and the manufacture of paper-pulp from Australian trees.

The Australian *Institute of Tropical Medicine*, Townsville, North Queensland, is under the control of the Commonwealth Department of Health. The staff, consisting of a Director (R. W. Cilento, M.D.), 3 medical officers, and 2 entomologists with technical assistants, etc., performs educational and diagnostic as well as investigational functions.

The Federal Government has agreed to contribute £1000 p.a. towards the estimated cost (£2500) of a Department of Anthropology in the Univ. of Sydney. A Cancer Research committee was formed in Sydney in 1924. The Peter Waite Institute for Agricultural Research at Adelaide was opened in 1924.

The NEW ZEALAND Institute, established in 1867, controls 3 funds which are available for grants to aid scientific workers: the Govern-

ment Research Grant Fund, Hutton Memorial Fund, and N.Z. Institute Endowment Fund. The Cawthron Institute of Scientific Research at Nelson concerns itself specially with agriculture and fruit-growing. The State Forest Service conducts experiments in regard to the value of the Dominion's timbers.

S. AFRICA. The Research Grant Board of the Union of S. Africa, created in 1918 as part of the subsidiary organization of the Advisory Board of Industry and Science, considers questions of detail by which the spirit of research may be fostered amongst students and members of the staffs of Univs., Research Laboratories, and Museums. It has provided (*a*) Grants of from £25 to £200 in aid of Research by members of the staffs of Univs., etc., awarded in the main to persons who have carried out previous research; (*b*) Research Scholarships of £80 to £130 p.a. for students at Univs., etc., who have taken their B.Sc. degree and show an aptitude for research, administered under the supervision of heads of Departments of Institutions; (*c*) Scholarships (temporarily suspended) for study of Commerce and Industries Overseas, £250 p.a., of which 4 were awarded in 1920. Since its inception the Board (now attached to the Division of Industries) has allotted 26 scholarships and 61 grants. Experimental work is conducted by the Depts. of Agriculture, Forests (Research Station at Deepwalls), Mines and Industries, and Marine Survey (Marine Biological Laboratory at Cape Town).

SOUDAN. At the Gordon Memorial College, Khartoum, are established the Wellcome Tropical Research Laboratories, where research and a large number of routine examinations are carried out by Government Bacteriologists, Chemists, and Entomologists.

(xxx.) RESEARCH IN INDIA

Under the new Constitution the development of industries is a Provincial transferred subject and the Government policy in regard to research work is to a large extent determined provincially. An account of the *Indian Institute of Science* is given on p. 561; there are *Research Institutes* at Pusa (Agricultural), Dehra Dun (Forestry) and Cawnpore (leather, vegetable oils and tinctorial chemistry, etc.); at Muktesar Bacteriological Laboratory some research in animal diseases is done; an Indian Lac Assocn. has been formed (financed by a cess on exports); projects are in hand for a School of Mines and Geology at Dhanbad, and a Forest Research Institute in Burma. An *Indian Central Cotton Committee* representing the growers and manufacturers of cotton has been formed at Bombay, which places grants-in-aid at the disposal of Provincial departments of Agriculture for research work on cotton. A *Technological Research Laboratory*, in which spinning tests will be carried out for the Agricultural departments, is in course of construction at Bombay. *Medical Research* is carried out at the Central Research Institute, Kasauli, the Calcutta School of Tropical Medicine and Hygiene, the Bombay Bacteriological Laboratory, the King Institute of Preventive Medicine, Madras, and at

Pasteur Institutes situated in Kasauli, Coonoor, Shillong and Rangoon. The Indian Research Fund Association finances researches into special diseases in connexion with one or other of these laboratories, and publishes the results in the *Indian Journal of Medical Research*, which is issued quarterly.

The *Bose Research Institute*, Calcutta, was founded in 1917 by Sir J. C. Bose, M.A., D.Sc., LL.D., F.R.S., C.S.I., who continues to direct its work. This is concerned especially with Plant Biology. Publications: *Life Movements in Plants*, vols. i., ii., iii.; *Physiology of the Ascent of Sap*.

(xxxi.) RESEARCH IN THE UNITED STATES

The NATIONAL RESEARCH COUNCIL of the U.S.A., an organization supported during the war largely by the Government but now entirely by private bodies and firms, has published an inventory (Bulletin, Vol. 2, No. 9, March 1921, $1, obtainable from the Council Office, 1701 Massachusetts Avenue, Washington, D.C) of funds, other than Federal and State Funds, available in 1920 for the encouragement of Scientific Research. It gives particulars of 529 University and College Funds of which the aggregate annual value was 2½ million dollars and of 170 other Funds worth over 18 million dollars per annum. Rockefeller and Carnegie benefactions alone provide over 17 million dollars p.a. In 1923 the Rockefeller Foundation provided fellowships for 636 persons who were preparing for teaching or administration in public health, medicine, biology, physics, chemistry, medical and pre-medical education and nursing. Of these the China Medical Board granted 135, the Division of Medical Education 51, National Research Council 113, a German committee 194, British Medical Research Council 4. Of the fellows 213 pursued studies in countries other than their own. The expenditure on fellowships amounted to $302,838. A revised and enlarged edition of the section of the Bulletin devoted to fellowships and scholarships for advanced work in Science and Technology was issued in Nov. 1923.

The UNIVERSITY CENTRE FOR RESEARCH IN WASHINGTON, constituted in 1921, is maintained by a voluntary association of scholars, to promote and facilitate research in archives, libraries and other collections located in the District of Columbia, on the part of students in the graduate departments of American and Foreign Univs. and of others. Technical Divisions of History, Polit. Sc., Internat. Law and Diplomacy, Economics, and Statistics have been established. Students in foreign Univs. and other investigators desiring to avail themselves of its services should apply to the Director of the American Council on Education, 24-26 Jackson Place, Washington, D.C.

(xxxii.) RESEARCH IN FRANCE

Les Ressources du travail intellectuel en France, by MM. Tassy and Léris (Gauthier Villars, 1921), contains lists of "Encouragements et Aides Financiers." The annual value of prizes distributed in France

by the national academies and by societies dependent on private initiative is stated to exceed 1,500,000 francs, and an almost equal amount is said to be devoted to subventions to missions, travelling fellowships and other aids to research.

(xxxiii.) INTERNATIONAL FOUNDATIONS AND ORGANIZATIONS FOR RESEARCH

FONDATION UNIVERSITAIRE, 11 rue d'Egmont, Brussels, founded in 1920 with a capital of 55 million francs derived from the unexpended balance of the funds of the Commission for Relief in Belgium, aims (1) at helping impecunious young Belgians to take courses in Institutions for higher education and (2) at developing scientific production in Belgium. It makes loans for the first purpose and grants and subsidies for the second. In the year 1921–22 its loans for University study amounted to 844,500 francs, its subsidies to 617,280 francs. The subsidies included grants for study in Brazil 21,208 fr., in European Univs. 28,000 fr., for training in Scientific Research 86,416 fr., for research workers 128,589 fr., to periodical publications 332,903 fr. Grants for study in American Universities were made to 34 Belgian graduates and grants for study in Belgian Universities were made to 24 Americans. The Foundation arranges exchange visits of Professors. A club-house was established at 11 rue d'Egmont in 1922 for Belgian Univ. Professors. It is open also to foreign professors invited by members of the club.

ELLEN RICHARDS RESEARCH PRIZE, $1000, for a thesis written in *English by a woman* on a scientific subject. Latest date, Feb. 28. Particulars obtainable from Dr. Lilian Welsh, Goucher College, Baltimore, Md., U.S.A.

AMERICAN-SCANDINAVIAN FOUNDATION. Travelling Fellowships of $1000 each for travel and study by American graduates in Scandinavian Univs. and *vice versa*, 20 for America, 5 for Denmark, 10 for Sweden, and 5 for Norway. Address—25 West 45th Street, New York City. Applications receivable up to March 15.

FRANCO-AMERICAN SCHOLARSHIP EXCHANGE. Administered by the Institute of International Education, 522 Fifth Avenue, New York. Fellowships for American graduates in French Univs. (Free tuition, 16; free tuition plus maintenance, 4; 5000 fr., 2). About 28 scholarships for American women in French Lycées and Écoles Normales: board, room, and tuition and 30 p.c. discount on passage each way. About 50 scholarships for French women in American Colleges.

AMERICAN FIELD SERVICE FELLOWSHIPS FOR FRENCH UNIVERSITIES. For 1924–25 not more than 10 were to be awarded, value $1200, tenable for one year, renewable for a second year in certain circumstances. Open to American graduates. Secretary—Dr. I. L. Kandel, 525 West 120th Street, New York.

NOBEL PRIZES, founded by Alfred Nobel who died in 1896, awarded for contributions to the common good by workers in (*a*) Physics, (*b*) Chemistry, (*c*) Medicine or Physiology, (*d*) Literature, (*e*) the Pre-

servation of Peace. The prizes, worth from Kr. 120,000 to Kr. 150,000 each, are awarded for (*a*) and (*b*) by the Swedish Academy of Science, for (*c*) by the Stockholm Faculty of Medicine, for (*d*) by the Swedish Academy of Literature, and for (*e*) by a committee elected by the Norwegian Storthing. Among the categories of persons qualified for candidature for prize (*e*) are University Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Norlandsgatan 6, Stockholm, Sweden. Among prize-winners of past years the following have a special interest for English-speaking students: (*a*) 1904, Lord Rayleigh; 1906, J. J. Thomson; 1907, A. A. Michelson; 1915, W. H. Bragg and W. L. Bragg; 1917, Ch. G. Barkla; 1923, R. A. Millikan; (*b*) 1904, Sir Wm. Ramsay; 1908, E. Rutherford; 1914, T. W. Richards; 1922, F. Soddy, F. W. Aston; (*c*) 1902, Sir Ronald Ross; 1912, Alexis Carrel; 1922, A. V. Hill; 1923, F. G. Banting and J. J. R. Macleod; (*d*) 1907, Rudyard Kipling; 1913, Rabindranath Tagore, (*e*) 1903, Sir W. R. Cremer; 1906, Theodore Roosevelt; 1912, Elihu Root; 1919, W. Wilson; 1923, W. B. Yeats. Awards in 1924: (*e*) W. St. Reymont of Poland; (*d*) W. Einthoven, Prof. of Physiology at Leyden.

FONDATION GEORGE MONTEFIORE offers triennially a prize of the value of 22,000 francs " au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation." Work should be received by April 30, 1925, by M. le Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liége (Belgique). It may be in English or French.

VISSER INTERNATIONAL LAW PRIZE (triennial). Administered by Leyden Univ. 5000 guilders. Next competition, 1926.

PRIX HOLLANDAIS for work in physical or prehistoric anthropology, 3500 fr. triennially beginning 1924. Institut International d'Anthropologie, 15 rue de l'École de Médecine, Paris, vi.

INTERNATIONAL RESEARCH COUNCIL, Palais des Académies, Brussels. General Secretary—Sir Arthur Schuster, Royal Society, Burlington House. This body has been constituted with effect from Jan. 1, 1920, in pursuance of a resolution adopted in Nov. 1918 at a Conference in Paris at which the principal Allied Academies were represented. Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Pure and Applied Chemistry, Mathematics, Physics, Radio-Telegraphy, Biological Sciences, Medical Sciences, and Geography.

UNION ACADÉMIQUE INTERNATIONALE for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political and Social Science. The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres. Its address is Palais des Académies, Bruxelles.

Continued from p. 655]

(xii. *a*) FREE PASSAGES TO AUSTRALIA AND NEW ZEALAND AND BACK

The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the Universities Bureau for graduates of the Univs. of Great Britain and Ireland who wish to visit these Dominions (*a*) for the purpose of holding temporary teaching-posts, or (*b*) for the purpose of prosecuting research work into problems connected with their development and resources. Application must be made to the Bureau by the authorities of the graduate's Univ.

Regarding free passages *from* Australia and N.Z. and back, see pp. 423, 451.

(xii. *b*) CITY OF LONDON VACATION COURSE SCHOLARSHIP

£250 to enable a teacher, actively engaged in teaching work in any part of Great Britain or Ireland, to proceed to America for some months in order to conduct research work in the field of education of children between 6 and 14. Address the Secy., City of London Vacation Course, Montague House, Russell Sq., London, W.C.1.

(xii. *c*) ENGLISH-SPEAKING UNION'S SCHOLARSHIPS

For British Women Teachers. *Page Travelling Scholarship*, £50 and complete hospitality in America during the summer vacation. *Chautauqua Scholarships* (2), for the summer school, July and August, in the State of New York; covering cost of lectures and complete hospitality for 6 weeks. Applications receivable up to April 11 by the E.S.U., 1 Charing Cross, London, S.W.

Continued from p. 658, AMERICAN UNIVERSITY FELLOWSHIPS]

Commonwealth Fund Fellowships, established 1925. Twenty to be awarded annually. Value about £600 each per annum, tenable ordinarily for two years in one of the 26 institutions belonging to the Association of American Universities (see list in Appendix XXV.). Candidates (who must be unmarried and not over 30 years of age) are to be nominated by universities in Great Britain and Ireland, and the final selections will be made by a Committee of Award, of which H.R.H. the Prince of Wales is Honorary Chairman, and Sir Walter R. Buchanan-Riddell, Principal of Hertford College, Oxford, Chairman. The office of the Committee is at 50 Russell Square, London, W.C.1. Among other conditions of tenure is a requirement that at least 3 months must be spent in travel in the U.S.A. at the close of the first year of study.

XXV

NOTES ON FOREIGN UNIVERSITIES

THE LEAGUE OF NATIONS COMMITTEE ON INTELLECTUAL CO-OPERATION has established an International University Information Office which issues a Bulletin. *Address*—League of Nations, Geneva.

The CONFÉDÉRATION INTERNATIONALE DES ETUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czecho-Slovakia, France, Luxembourg, Poland, Roumania and Spain, and unofficial representatives of students of 10 other countries — Denmark, England, Greece, Holland, Italy, Norway, Sweden, Switzerland, U.S.A., and Yugoslavia—which had, at that time, no national unions. The Council of the C.I.E. met at Brussels in 1920 to organize the first Congress, which was held at Prague in 1921. At this Congress National Unions of England and Wales, Finland, Holland, Norway, Scotland, Switzerland, Sweden and Yugoslavia were admitted as full members, and a representative of emigrant students from Ukraine as an unofficial member. The Council met again at The Hague and at Oxford in 1923, and the Second Congress took place at Warsaw in Sept. 1924, when the National Unions of Bulgaria, Esthonia, Hungary, Lithuania, and Turkey were admitted as full members, and the following as unofficial members: National unions of New Zealand and South Africa and "Oreso" (association of Russian emigrant students), and representatives of students of Georgia and of Hong-Kong; and it was decided to collaborate effectively. with the national union of German students (Deutschestudentenschaft).

The central office is at Brussels. Administrateur—J. Baugniet, Dr. Jur. Avocat, 82 Avenue Molière. Executive Committee: President, J. Balinski-Jundzill, 11 rue Wiejka, Warsaw; First Vice-President, Ivison Macadam, c/o N.U.S., 3 Endsleigh St., London, W.C.1; Vice-Presidents, H. Stahel, Seestrasse, 59 Zollikon-bei-Zürich; B. Mothe, 52 Cours d'Alsace Lorraine, Bordeaux; H. Graessler, Roesenvangets Alle, 16, Copenhagen; F. Deak, Uloï ût 4/1 Buda Pest VIII. Secretary-General, Frantisek Munk, Akademicky Dum Prague III. Joint-Secretary, Orazi Spartaco, via Gaeta, 19, Rome 21. Treasurer, M. I. Macdonald, c/o S.R.C., The University, Edinburgh.

The WORLD'S STUDENT CHRISTIAN FEDERATION, 16 Boulevard des Philosophes, Geneva, publishes annually a list of *Foyers, Student Hostels, and Addresses of Secretaries.*

Among other international student organizations are the *Leyden International Bureau,* founded 1923, for contact between the non-dogmatic religious youth movements in the world, Nieuweweg 6, Lochem, Holland; and *Pax Rômana* (Catholic Students), Gambach 30, Fribourg, Switzerland.

AN INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded

in 1920 " to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." Branches in Australia, Canada, Great Britain, Ireland, India, New Zealand, South Africa, Austria, Belgium, Czecho-Slovakia, Denmark, Finland, France, Holland, Italy, Norway, Spain, Sweden, Switzerland, United States. Total membership, 28,000. The Federation assists travelling members by providing introductions, and by the establishment of club-houses in such centres as Paris, London, Brussels, New York, Washington, Philadelphia, etc. It provides travelling fellowships for women graduates (v. Appendix XXIV., xxiv.), and promotes the exchange of university and secondary school teachers between different countries. Officers (1924–26): *President*, Dean Virginia C. Gildersleeve, Barnard College, Columbia Univ.; *Vice-Presidents*, Docent Ellen Gleditsch, Univ. of Oslo; Prof. Winifred Cullis, Univ. of London; Mlle. M. Mespoulet, Paris; *Treasurer*, Mrs. Thomas R. White, Philadelphia; *Secretary*, Miss Theodora Bosanquet, 92 Victoria Street, London, S.W.1.

The UNIVERSITIES RELIEF COMMITTEE, formerly under the auspices of the Imperial War Relief Fund, was created in July 1920 on the initiative of Lord Cecil. The aim of this Committee has been to relieve professors, men of letters and science, and students, attached to the Universities of Central Europe and Russia, by the collection and distribution of books, scientific periodicals, food and clothing. These gifts are administered either through committees in each University, or in the case of students and professors in Russia, through the European Student Relief Committee of the World's Student Christian Federation. The British share of such gifts amounted in the four academic years, 1920–24, to over £114,000. This academic year, 1924–25, the Universities' Relief Committee is concentrating its main effort on the relief of Russian refugee students in the various countries of Europe, though these refugees are principally in Serbia and Czecho-Slovakia. *Address*—Annandale, North End Road, Golders Green, London, N.W.11. Address of the European Student Relief Committee—16 Boulevard des Philosophes, Geneva.

A DIRECTORY OF THE UNIVERSITIES and other learned institutions of the world somewhat similar to *Minerva* (Walter de Gruyter & Co., Leipzig) has recently been established in Paris under the name *Index Generalis* (56 Rue de Vaugirard, Paris 6; London Agents, Dent & Sons, Ld., 10 Bedford St., W.C.2).

AUSTRIA

The principal institutions for higher education are the Univs. of VIENNA, GRAZ, and INNSBRUCK, the College of Catholic Theology at Salzburg, Polytechnics at Graz and Vienna, School of Mines at Léoben, Schools of Agric. and Vet. Med., Superior Commercial College, Academy

of Fine Arts, College of Music, and School of Oriental Languages at Vienna. A report on the condition of intellectual life in Austria, prepared in August 1922 by Prof. de Reynold of the Univ. of Berne for the League of Nations (Committee on Intellectual Co-operation), was circulated in Nov. to Univs. and learned societies in all countries with an appeal to save Austria " from the fate of seeing its higher education and learning disappear from sheer want," and suggested, among other means, utilising the Arbeitsmittelbeschaffungsanstalt, associated with the Univ. of Vienna Zentralrat der geistigen Arbeiter, for the supply of books, periodicals, and instruments. Since then some philanthropists have contributed towards the maintenance of the Univs. of Austria.

VIENNA

Rektor (1924–25): Dr. Hans Sperl. *Faculties* and numbers (for 1923–24) of professors and regular students: Catholic Theol.—10 (and 3 Priv. Doz.), 168; Evang. Theol.—6, 41; Law—24 (and 49 Pr. Doz), 2529; Medicine—80 (and 244 Pr. Doz.), 2789; Philos.—96 (and 118 Pr. Doz. and 42 Lekt.), 3955. Correspondents: Dr. Karl Luick, Prof. of English, Wien 19/1, Gatterburggane 6; Dr. A. F. Pribram, Prof. of History, Wien 19/1, Billroth Str. 32; Dr. J. Redlich, Prof. of Law, Wien 19/2, Armbrustergane 15.

A special leaflet for foreign students is published, and can be obtained (postage should be prepaid) from the Rektor or Dr. Adolf Kronfeld, Vienna ix., Porzellangasse 22. Students of the Philos. Faculty can obtain information at the " English Seminar " of the Univ.

An " International Summer School " is held every September. Information can be obtained from the " Sekretär der Wiener Internat. Hochschul Kurse," Vienna ix., Boltzmanngasse 16.

Advanced Medical courses of from 2 to 3 weeks' duration are held at least 4 times a year, and special medical courses for foreigners at any time. Information can be obtained from the Kursorganisation der Wiener medizinischen Fakultät, Vienna ix./1, Porzellang 22 (postage should be prepaid). Dates fixed for 1925: Feb. 9 and June 15. There is an Assocn. of American Physicians with headquarters at Spitalgasse, Cafe Klinic. Information about board and lodging can be obtained from Minerva Buro viii., Schlösselgasse 22.

GRAZ: Karl-Franzens-Universität

Numbers of full-time students: Theol.—102; Law—545; Medicine —1017; Philos.—631. Correspondents: for general subjects and for Faculty of Philos., Prof. Dr. Albert Eichler (English Lang. and Lit.); for Fac. of Law, Hofrat Prof. Dr. Adolf Lenz (Criminal Law); for Fac. of Medicine, Hofrat Prof. Dr. Otto Loewi (Pharmakology).

Vacation course for medical practitioners planned for 1925. Extension lectures in winter and spring on literary and scientific subjects. There is a " Studentischer Hilfsausschusz," which arranges exchanges of graduate students.

INNSBRUCK

Rektor (1924–25): Dr. Theodor Rittler. Numbers of professors (p.), dozenten (d.), and students (s.). Rom. Cath. Theology—12 p., 2 d., 358 s.; Law, including Political Science and Economy—11 p., 4 d., 353 s.; Med.—21 p., 14 d., 369 s.; Philos.—38 p., 12 d., 10 Lektoren, 269 s.

Prof. of Engl. Philol., Karl Brunner, conducts an Englisches Seminar. Univ. Library about 300,000 vols., including several MSS. and valuable first prints. College for Theology Students (Canisianum). Ample new buildings, constructed 1912–14, were opened in 1924.

BELGIUM

Of the four Universities Gand and Liége are State institutions administered under the control of the Ministère des Sciences et des Arts, which also controls some secondary schools. In order to qualify for the State degrees which alone are recognized for the purposes of the laws relating to professional and certain public functions it is necessary to have obtained a Certificat d'Études moyennes evidencing the satisfactory completion of six years' study in secondary schools or, in the case of degrees in Physical and Mathematical Sciences or for Engineering, five years' study in professional schools.

Brussels is the seat of the headquarters of various International bodies concerned with higher education and research (see Appendix XXIV. (xxxiii.)), and the Conféd. Internat. des Étudiants. A Semaine Sociale Universitaire is held at Brussels during the summer vacation: Secy.—F. Van Langenhove at the University. The Anglo-Belgian Union, 35 Albemarle St., London, W.1, and 22 rue de la Pépinière, Brussels, has a sub-committee for "échanges intellectuels et universitaires," to whom British students may apply for general information; while special inquiries should be addressed to the respective Secretaries of the four Universities. For particulars of the "Fondation Universitaire," v. Appendix XXIV. (xxxiii.). The "Université Internationale" created in 1920 will not be in session in 1925.

There is a State School of Veterinary Medicine at Cureghem, Brussels (Director—G. Gracia). An Agricultural Training College recently established on the Hosseghem estate, Laeken, Brussels, arranges interchange of members with similar institutions in other countries. The Institut des Hautes Études de Belgique, 67 rue de la Concorde, comprises sections for Maths., Physics and Chem.; Nat. Sc., History and Philology; Social, Polit. Econ., and Jurid. Sciences, Arts and Letters (Secretary: C. Van den Borren). The Belgian State School of Tropical Medicine is at Brussels.

At Antwerp is an Institut Sup. de Commerce with about 20 Profs. The "Colonial University," inaugurated at Antwerp on Nov. 22, 1923, by the King of the Belgians, originated as the École Coloniale Supérieure in 1920. It provides courses of instruction in political and administrative sciences.

There is a "Musée Colonial" at Tervueren.

At Gembloux a State School of Agriculture with about 20 Profs.

At Gand an "Institut Supérieur des Fermentations," rue du Lac, and a School of Agriculture in which the courses are conducted in Flemish.

At Liége an École des Hautes Études Commerciales et Consulaires with about 25 Profs.; École Libre d'Anthropologie, with 16 Profs.

At Mons an École Sup. du Commerce with about 20 Profs., an "Institut des Industriels du Hainaut," and a well-equipped and largely attended École des Mines.

At Verviers an École Sup. des Textiles with about 20 Profs.

BRUXELLES (UNIVERSITÉ LIBRE)

Président du Conseil: Maurice Vauthier. *Secrétaire de l'Université*: M. Jean Willems. *Recteur*: A. Brachet. *Présidents des Facultés*: Philos. et Lettres—M. Huisman; Droit—H. Rolin; Sciences—A. Lamure; Méd.—A. Depage; Sc. appliquées—L. Baes. École des Sc. Polit. et Soc.—G. Bigwood; École de Commerce—L. Wodon. Number of students (full-time), 1923–24: Philos., 238 (including women—86); Law, 228 (w.—12); Sc., 371 (w.—87); Med., 538 (w.—48); Sc. App., 312; Sc. Pol., 89 (w.—12); Ped., 31 (w.—9); Comm., 142 (w.—6).

The new School of Medicine, which will be in close connexion with the City Hospital, has received large endowments enabling it to offer ample facilities for advanced study and research. In addition to the regular courses for undergraduates, "Cours libres" in many special subjects, suitable for graduates and practitioners, are given by more than 20 Profs. The "M.D. Brussels" examns. have been discontinued.

A section of Maritime Law was opened in 1922.

The new School of Applied Sciences is also well equipped for research. It has depts. of Archit., Aviation (6 Profs.), Industrial Chem., Engineering, Mining, Metallurgy, Railways. Admission to the school is by examn.—the same for Belgians and foreigners.

It rests with the Faculty concerned to decide on questions of equivalence of foreign academic records with the ordinary Belgian qualifications for admission to Univ. courses. Of 435 recipients of Diplômes scientifiques in 1923–24, 90 were foreigners. Total number of students in 1923–24: 1949. A "Maison des Étudiants" Co-operative Society managed by students provides cheap and wholesome food and assists students in finding lodgings. A home for girl students offers cheap lodging in comfortable surroundings. Furnished rooms about 150 fr. a month; board and lodging from 500 to 900 fr. a month. Inquiries by foreign students should be addressed to the Secretary of the Univ., 14 rue des Sols.

The Commission for Relief in Belgium promised in 1922 to build a new library, buildings for colleges of law and philos., and 2 houses for students (men and women), which are now in course of construction.

GAND (GHENT)

Rector: Prof. G. v. d. Bossche. Number of full-time students: Philology, 121; Archæ., 23; Law, 93; Comm., 62; Sc., 107; Engineering, 370; Arts and Manuf., 433; Med., 297; Physical Educn., 15; Total, 1521.

Correspondent—Prof. Dr. H. Logeman. Of special interest to foreign students are the short courses provided by the École Spéciale de Commerce and facilities for advanced study offered by the Institut Supérieur d'Éducation physique. British students who have passed examns. qualifying for admission to degree courses in a British Univ. can be admitted to degree courses at Gand without further examn. Flemish is the official language of the Univ., but instruction in the technical schools of the Univ. continues to be given in French as well as Flemish.

LIÉGE

Recteur: Eug. Prost. Number of full-time students: Philos., 303; Law, 207; Comm., 257; Sc., 376; Engineering, 852; Med., 433; Technology (Arts, Manuf., and Mines), 529; Total, 2957.

Correspondents: Profs. J. Mansion (Comp. Philol.), C. De Jace (Law), M. Huybrechts (Chem.), J. Duesberg (Anat.), J. Firket (Pathology), C. Breyre (Laryng.), J. Halkin (Geog.), L. Danoël (Mining).

It rests with the Faculty concerned to decide on questions of equivalence of foreign academic records with the ordinary Belgian qualifications for admission to degree courses. A special examn. in Maths. is required for admission to the Faculty of Technology.

LOUVAIN (UNIVERSITÉ CATHOLIQUE)

Rector Magnificus: Mgr. P. Ladeuze, D.D. Number of full-time students (1923): Divinity, 83; Law, 385; Med., 898; Philos., 391; Sc., 415; Pol. and Soc. Sc., 29; Comm., 182; Superior Philos., 79; Engineering, 481; Agric., 221; Brewery, 20; Prep. Inst. for Tech. Schools, 42. Total, 3356.

Correspondents: L. v. d. Essen, Prof. of History; H. de Vocht, Prof. of English Philos.; D. Carnoy, Prof. of Greek and Oriental Philol.

For admission to the Schools of Applied Science an entrance examn. must be passed. Otherwise British students qualified for admission to British Univs. may be admitted to courses for the State degrees if their qualifications are considered equal to the Belgian Certif. d'Études moyennes; they may also enter without such qualifications for Academic or Scientific non-State degrees.

Special Advantages for Foreign Students. Both French and Flemish may be easily learnt. Students can attend, in addition to the special branches selected, the courses of Language and Literature (especially French) in the Faculty of Philosophy and Letters. Louvain

being merely a Univ. town and centre of intense intellectual life, they have all facilities for acquiring a thorough knowledge of Belgian Art, Lit., and Culture, either through the various series of conferences organized by the Univ. and Schools, or in the numerous clubs, societies, and seminaries amongst the students, with a professor as chairman, which are most flourishing, and constitute a highly interesting feature of Louvain Univ. life. This is the oldest of the Belgian Univs., having been founded in 1425. Much of the original College buildings may still be seen.

The Library is being rapidly restored, and it now includes 500,000 vols., including 280,000 sent from Germany in fulfilment of the Peace Treaty.

BULGARIA

SOFIA

Rector: V. N. Zlatarsky. Correspondents and numbers of professors and students: Hist.-Philol.—St. Mladenov, 42, 322; Law—St. Kyroff, 25, 496; Med.—C. Pashef, 27, 528; Phys.-Maths.—W. Tchakalof, 26, 318; Agronomy—J. G. S. Chlebarof, 13, 181; Theol.—St. Tsankof, 6, 35; Veterinary—St. Anghelof, 5, 23; Lecturer in English—Constantine Stephanof.

CZECHO-SLOVAKIA

[The following notes are based mainly on information supplied by the Czecho-Slovak Bureau of Information, 8 Grosvenor Place, London, S.W.1.]

Universities and High Schools can be established only by law, and the whole of the educational system is administered by the State. School attendance is compulsory for children from 6 to 14 years of age. In the gymnasia and "real schools" which receive pupils at or above the age of 10, courses covering 8 years and 7 years respectively lead to Maturity certificates qualifying for admission to the Univs. and High Schools. Adult education is provided for by univ. extension lectures. In order to be admitted as a regular student of a Univ. it is necessary to pass an exam. in Latin. Time spent in foreign univs. may be included in the prescribed period of study for the doctorate—ordinarily 8 (Med., 10) semesters. In 1924 the Univs. and Technical Institutions of Univ. standing had 26,000 students.

The Univ. founded in 1348 by Charles, King of Bohemia, and amalgamated in 1654 with the Jesuit College of Prague under the name "Charles-Ferdinand," was in 1882 divided into two—a Czech (the Charles) and a German Univ. There are also at Prague Czech and German Technical High Schools, having about 5000 and 2100 students respectively, a Higher Commercial School with a 3-years' course, a State Conservatoire of Music, an Academy of Fine Arts, and an

Observatory. A French Institute was founded in 1920, an Italian in 1923, an American in 1925. The Czech Univ. has about 250 professors and lecturers, and over 8000 students, including about 1500 women. The German Univ. has about 3000 students.

An institution formerly known as the "English University College," and not affiliated to either of the Univs., was established at Prague in 1920; it gives instruction, both elementary and advanced, to students of English.

At Brno (Brünn) are the MASARYK Univ. (founded in 1919), with faculties of Philos., Science, Med., and Law; Czech and German Higher Technical Schools; Higher Agric. and Vet. Schools.

At Bratislava (Pressburg) is the KOMENSKY Univ. (founded in 1919), with faculties of law, medicine, and philos. It offers excellent opportunities for research in folklore.

There is a Mining Academy at Pribram. Olomouc has a Catholic theological faculty.

SPECIAL FACILITIES AVAILABLE FOR ENGLISH-SPEAKING STUDENTS. The Director of English Seminar, Prague i., Veleslavinova, 96, is prepared to answer inquiries by students proposing to study at Prague. Many of the Profs. speak English or French. Free Czech courses for English-speaking foreigners arranged. American students' club-house. An American Institute, with library and reading-room, founded 1925, provides instruction in English and lectures on economic and technical subjects.

PRAGUE

UNIVERSITA KARLOVA. *Rector*: Otacar Kukula, M.D. Numbers of professors and students: Theol. (R.C.)—9, 47; Laws—19 (and 14 lectrs.), 3090; Philos.—46 (and 54 lectrs. and readers), 1628; Med.—38 (and 33 lectrs.), 2231; Science—28 (and 35 lectrs., etc.), 1189.

DEUTSCHE UNIVERSITAT. *Rector*: Prof. Dr. S. Steinherz. Number of professors: Theol.—8 (and 3 dozenten); Law and Pol. Econ.—13 (and 4 doz.); Med.—38 (and 37 doz.); Philos.—24 (and 22 doz. and lect.); Sciences—12 (and 18 doz.). Correspondent—Otto Funke, Prof. of English.

DENMARK

(Contributed by the President, Anglo-Danish Students' Bureau, London Branch)

THE UNIVERSITY OF COPENHAGEN has always been, and is at present, the only Univ. of the country. For some time past there has been a general desire to have one more, and the incorporation of the Danish part of Slesvig in 1920 has intensified this need. There are now plans of establishing a second Univ. in Jutland, and the seat of this institution is most likely to be *Aarhus*, the largest city but one (about 100,000 inhabitants), which has many advantages for the realization of such a plan in its great hospitals, library, and museum.

HISTORY AND CONSTITUTION. The Univ. was opened in 1479, in accordance with a Papal Bull of June 19, 1475. Beginning as a School of Theology, and by degrees adding the other faculties when the need for them arose, the Univ., faithful to its historical traditions, still contains only five faculties: Theology, Law (including Political Econ.), Medicine, Arts (Det Filosofiske Fakultet), Science (including Maths.). Other subjects, which are in England generally treated as Univ. subjects, are taught at special institutions at Copenhagen, not being incorporated in the Univ., but, like it, under State supervision: *Engineering* at the Polytekniske Læreanstalt; *Agriculture* at the Royal Vet. and Agr. College; *Fine Arts* at the Royal Academy of Art; *Music* at the Academy of Music (Musikkonservatoriet).

The academical year is divided into 2 terms (Semestre), beginning on Sept. 1 and Feb. 1 respectively. Christmas holidays: Dec. 23–Jan. 6. Easter holidays: Wed. before till Tues. after Easter. Whitsuntide: Sat. before till Tues. after Whitsunday. Long vacation: June 9–Sept. 1. The number of matriculated students of the Univ. proper was on Sept. 1, 1924: 3923 (including 670 women) as follows: studying Theology—455 (13 women); Law—997 (49 women); Economics and Actuarial Science—201 (21 women); Medicine—985 (138 women); Arts subjects—677 (183 women); Maths. and Natural Sciences—262 (42 women); others—346 (224 women).

The Univ. is a self-governing and, to a great extent, a self-supporting institution besides being a State Univ. Thus it relies for its income partly on large endowments of bygone ages, and partly on State aid. The rector is elected each year by the joint body of the professoriate called Lærerforsamlingen, and the deans of faculties are elected by the faculties. *All tuition is free*, and a very great number of scholarships and fellowships are available to Danish students, often including free residence at one of the colleges. Nearly all lectures are open to the public without fee or ticket. The only fees charged to students are a Matricn. fee of a little more than £1, and a similar fee for examns.

Rector Magnificus for 1924 is Prof. *F. E. Torm*, Dr. Theol. *Administrator* is Prof. *H. Munch-Petersen*, Dr. Jur.

ADMISSION. (I.) According to the Statutes any student who wishes to study at the Univ. must matriculate. The matricn. is, however, not an examn., as the entrance examn. will generally have been passed by the student as a Final examn. on his leaving the school or institution at which he has been prepared for the Univ. Thus the matricn. simply consists in paying down a fee once and for all of 22 kroner. Candidates must bring: (i.) a certificate from the school or other Univ. attended; (ii.) birth certificate. The student will then in due time receive the document styled "Akademisk Borgerbrev" in proof of his being admitted as "Civis Academicus."

(II.) Any matriculated student who wishes to attend the teaching of the Univ., and enter for examns., must enter his name on the annual list kept of all students in the course of the month of Sept. of each year. The student will then receive without any fee or payment an *Identity Card* for the year, enabling him to obtain cards of admission to lectures,

courses, laboratories, etc. In brief, with this Identity Card in his possession he enters into his rights as "Civis Academicus."

UNDERGRADUATE STUDIES. There is no fixed time for the duration of the courses of studies, the candidate can enter for his examn. when he thinks fit. However, the courses of studies at Copenhagen are generally longer than those at British Univs., the minimum being usually 5 yrs.

BRITISH STUDENTS with a Matricn. certificate from their own Univ. will be admitted on the same conditions as Danish students, and degrees and certificates will be open to them. For advanced study and research, British students will be admitted to all laboratories, seminaries, and other scientific institutions, provided accommodation is available. Knowledge of English is very widespread in Denmark.

DANISH DOCTORS' DEGREES will, no doubt, be open to foreign students, but are considered some of the most difficult to obtain, and, as far as can be ascertained, have never yet been taken by any foreigners. After having had his thesis recognized by several censors of the Professoriate, appointed by the Univ., the candidate is required to publish it, and then on an appointed day defend his thesis in public, not only against the said censors as chief opponents, but against any one from the audience who wishes to take part in the disputation. Theses should ordinarily be written in Danish, but a summary in a foreign language may be appended. In special cases, *e.g.* when the subject of the thesis, or the public for which it is intended, makes it advisable, permission may be given to employ a foreign language (as a rule, only English, French, or German). A summary in Danish should then be appended to the thesis.

STUDENTS' REPRESENTATIVE COUNCILS have been founded by the students of the Univ., as well as those of cognate institutions for each college respectively. The joint representative body of these different councils is the *Danish Students' National Council.*

FELLOWSHIPS. The only Fellowships for foreign graduates who want to study at the Univ. are the *Exchange Fellowships* between the U.S.A. and the Scandinavian countries offered by the *American-Scandinavian Foundation.* There are 5 each year, and the subjects mentioned in the prospectus of the Foundation are the following: Industrial Organization, Co-operative Agriculture, Agricultural Sciences, Bacteriology, Chemistry and Physics, Folk High Schools, Language and Literature, other Humanistic subjects.

All applications for these Fellowships, which are of the value of one thousand dollars per annum each, should be directed to—The Assistant Director of Students, The American-Scandinavian Foundation, 25 West 45th Street, New York City.

The following paragraphs are taken from an account contributed by N. P. Sørensen (Secy. to the Danish Students' Information Bureau) to the official Yearbook for 1924 of the Danish Ministry for Foreign Affairs:

FACILITIES FOR FOREIGN STUDENTS. Opportunities for post-

graduate study and research in the following subjects, among others, are available: *Physics*: Institute of Theoretical Physics, Principal, Prof. Niels Bohr (Nobel Prize, 1922); thanks to recent endowments from the Rockefeller Institute, larger laboratories are now under construction. *Physiology*: Prof. Aug. Krogh (Nobel Prize, 1920); this branch of Science, too, has recently been endowed by the Rockefeller Foundation. *Bio-Chemistry*: Carlsberg Laboratories. *Chemistry*: Univ. and Engineering College. *Heredity*: Prof. W. Johannsen. *Old Norse* (Icelandic): large collections of mediæval manuscripts at Univ. Library. *History*: especially in relation to Scandinavia and the Baltic, rich archives. *Marine Biology and Hydrography*. *Archæology*: exceedingly rich collections from Stone and Bronze Age. *Medicine*: Finsen Institute, Cancer Research, Hospital Organization. *Natural Science*: Museums and collections. *Animal Husbandry*. *Co-operative Farming*. *Physical Training*. *Adult Education*. For information apply to: Dansk Studieoplysningskontor, University, Studiestraede 6, Copenhagen, or its branch offices: Anglo-Danish Students' Bureau, 50 Russell Square, London, W.C.1; Bureau franco-danois des renseignements universitaires, 25 Rue Servandoni, Paris vi.; American-Scandinavian Foundation, Information Office, 25 West 45th Street, New York.

English, German, and French, especially the first two languages, are widely spoken and understood in Denmark, so that foreigners need not hesitate to study in Denmark for fear of not being understood.

J. H. HELWEG.

January 1925.

EGYPT

Higher Schools of the Egyptian Government: School of Medicine, Cairo, attached to which are Depts. of Pharmacy and Midwifery; Royal School of Law, Giza; School of Engineering, Giza; Higher School of Agriculture, Giza; Higher Training College, Cairo; Higher School of Commerce and Accountancy, Cairo; Veterinary School, Giza; Dar El-Ulum (Teachers' Training College for graduates of El-Azhar).

At Cairo are two institutions commonly referred to as universities, although they have but little in common with European universities: the Mussulman University of El-Azhar, Cairo, to which are affiliated the Theological Institutions of Tanta and Alexandria; and the Egyptian University, Cairo, founded in 1908, which has a faculty of Letters and a Department of Law and confers degrees, which are, however, not recognized by the Government.

Information regarding Institutions for higher education in Egypt can be obtained at the office of the Educational Mission in England, 28 Victoria Street, Westminster, S.W.1.

ESTHONIA

TARTU (DORPAT)

The State University of Tartu, founded 1632 by Gustavus Adolphus (Universitas Dorpatensis), reorganized 1918 (year of independence of Esthonia), has Faculties of Theology, Law (including Economy), Medicine (including Pharmacy), Philosophy, Mathematics and Natural Science, Veterinary Science, and Agriculture (including Forestry). On Dec. 1, 1924, the number of professors and other teaching staff was 250; of students, 4414, including 1271 women. Students in each faculty (1923–24): Theol., 66; Law, 1692; Med., 556; Arts, 535; Science, 601; Vet. Med., 69; Agric., 276. Prof. of English—H. Mutschmann, M.A., Ph.D. In Esthonia are also a "Technicum" and higher schools for music and art.

The Union of Students of Esthonia published in 1923 a 34-page pamphlet in French, giving a general account of the University and the Union.

FINLAND

HELSINGFORS (founded in Abo in 1640)

This, the only State Univ. in the country, is organized on the same lines as those of the Scandinavian countries. Foreigners who are members of a Univ. of approximately the same standing may carry on their studies in the several faculties and obtain the degrees. All lectures are given in one of the two national languages of Finland, Finnish and Swedish, which are also used in all examns., written and oral. Doctors' dissertations may be in these or any of the great living European languages, or in Latin. The number of immatriculated students is 2950, of whom 30 per cent are women. Female students have in every respect the same rights as men. Rector—Prof. H. Suolahti.

DEGREES conferred in the several Faculties: Theol.—Sacr. Min. Cand.; Theol. Cand., Lic., Dr. (Hon.). Law—Jur. Utr. (Justice and Administration) Cand., Lic., Dr. (Hon.). Med.—Med. Cand., Lic.; Med. et Chir. Dr.; Odont. Cand., Lic., Dr. Philos.—Cand., Mag. (Hon.), Lic., Dr. (Hon.) Phil.

Examns. also held in Pedagogy, Metallurgy, Agric., Forestry, Gymnastics. Exemptions from the various examns. may, if corresponding examns. have been passed in a foreign country, be granted by the Chancellor, on the recommendation of the Faculty and the Senate.

Number of students (1924): Theol., 122; Law, 835; Med., 620; Philos., 700; Science and Maths., 477; Agric. and Forestry, 353; Gymnastics, 57.

At Helsingfors also are a State TECHNICAL HIGH SCHOOL, founded 1908, giving a Diploma and a Doctorate of Engineering, and a COM-

MERCIAL HIGH SCHOOL, founded 1911, giving a M. Com. Sc.; also an INSTITUTE OF GEODESY, founded in 1919.

THE ACADEMY OF ABO (Swedish)

Founded 1917, opened 1919. Faculties: Humanities, Maths. and Nat. Sc., Polit. Sc., Applied Chem. Degrees: Master and Dr. Phil.; Dip. and Doct. Engin. Library, 100,000 vols. Teachers, 34; students, 160. Rector—S. Johansson, D.Ph. Scientific publications: *Acta Academiæ Abœnsis* (two series: *Hum.* and *Physica et Math.*).

Number of students (1924): Humanities, 59; Sc. and Maths., 14; Pol. Sc., 26; Chem., 59; Theol., 4.

The FINNISH UNIVERSITY OF ABO (Turku), founded 1920, opened 1922. Faculties: Humanities, Nat. Sc. Degrees: Cand., Mag., Lic., and Dr. Phil. Library, 130,000 vols. Teachers, 20; students, 120. Rector—A. H. Wirkkunen.

Number of students (1924): Humanities, 71; Nat. Sc., 105.

FRANCE

For full information regarding the French Univs. students in the U.K. are recommended to apply to the Office National des Universités et Écoles françaises, London Branch, 1-7 Cromwell Gdns., S.W.7. This organization, which is under the direction of M. Petit-Dutaillis, one of the Inspectors-general of the Department of Public Instruction of France, has branches also in America (at the Institute of International Education, 419 West 117th St., New York), Spain (Madrid and Barcelona), Portugal (Lisbon), Switzerland (Fribourg), Holland (Amsterdam), and Italy (Florence). It has recently published a volume (Expansion Scientifique et Universitaire de la France; Les Presses Universitaires de France, 49 Boulevard St. Michel, Paris, 1923), containing (1) reports on its own activities and on the Instituts Français of Florence, Naples, Madrid, Barcelona, London, Prague, and Buenos-Ayres, and the French University Mission in Roumania; (2) regulations regarding foreign service by professors; (3) conventions and agreements concerning scientific and university and other educational relations with Italy, Roumania, Jugo-Slavia, Belgium, Luxembourg, Poland, and Czecho-Slovakia; (4) Special examination for foreign students for admission to French University courses; (5) recognition of foreign academic records as equivalent to baccalauréat, licence, etc.; (6) statistics of foreign students in French Univs. (in 1921–22, 5926, including Jugo-Slavians, 821; Roumanians, 751; Egyptians, 437; British, 410).

The French Univs. which grant degrees and most of the other Institutions of Higher Learning in France, as well as the Lycées and Primary schools, are under the direction of the Minister of Public Instruction. The degrees, diplomas and certificates obtainable at the Univs. are of two kinds—those of the State and those of the Univ.;

the latter, while attesting with equal authority the same and other courses of study, do not confer the right to practise a profession in France. Further, the unified control of the Univs. has resulted in giving to the degrees granted by all of them a uniform value. In this connexion it is noteworthy that the word " Université " is frequently used to denote not what is signified by the English word, but the entire system of French State Higher Education, *e.g.* " Professeur de l'Université " means a person *qualified* to teach as such, whether in a university or a lycée or college. Uniformity in the essentials of administration does not, however, prevent each Univ. from having a character of its own, and their differentiation is accentuated by the practice of devoting special attention to the study of Local History, Dialects, Industries, and Economic Conditions. The excessive separation from each other of the several Faculties which was enforced during the nineteenth century for political reasons has given place to a close collaboration which greatly furthers the interests of study and research. Associated with the Univs. are numerous Institutes and Schools for the cultivation of special branches of knowledge, Technology and Research. The Office National draws special attention to the advantages for foreigners of studying in a provincial Univ., where initiation into French life is easier and more intimate relations with teachers and fellow-students can be established than in Paris, and where the cost of living is appreciably lower.

Admission to courses of lectures in the Faculties of Science and Letters of the Univs. can ordinarily be obtained on payment of the prescribed fees by foreign students of either sex, without difficulty and without any preliminary test of their qualifications, and in many places " sections étrangères " have been organized for their benefit, and, for students of the French Language, Literature, History, Institutions, etc., " Cours spéciaux d'études françaises." It is, however, advisable in all cases and necessary for " immatriculation " (entitling, to take part in all the work of the Univ. and utilize its libraries, collections, etc.), that the student bring with him a passport or birth certificate, and (though the Dean of the Faculty may allow matricn. without this if satisfied on other grounds as to the candidate's qualifications) an academic diploma or certificate. It is also advisable to have the latter as well as the former *visé*-d by a French Consul. On arrival in France a declaration of residence must be made at the Préfecture de Police or Mairie and a certificate, " récépissé," of the declaration obtained (free of charge). It may also be necessary to obtain official translations by a " traducteur juré " of the passport, etc.

The method of qualifying for a degree is somewhat similar to that prescribed for London External students: continuous residence and attendance on prescribed courses are not required, the candidate's fitness being ascertained merely by examinations. For all the State and some of the Univ. degrees and diplomas, however, " inscription " at intervals of 3 months is required, but not necessarily at one and the same Univ., and in practice it would be difficult in most cases to pass the examns. unless the student had followed the preparatory courses in the Univ.

" Inscription " is effected on each occasion by the student himself attending at the office of the Secretary and paying a fee, ordinarily 30 fr. *plus* a library fee of 10 fr. and, for some courses, laboratory fees. At the first "inscription" must be presented a duly *visé*-d passport or birth certificate with official translation, a diploma or certificate equivalent to the French Baccalauréat and the " récépissé " mentioned above. The Baccalauréat does not correspond with our bachelorship, but marks the satisfactory completion of a course of secondary education. A matriculation certificate of a Univ. in the U.K. is regarded as equivalent to it, but the document, whether a matricn. certif. or one of equivalent or higher standard, should be accompanied by an official translation and a formal request on stamped (2 fr.) paper (obtainable from any stamp-vendor) addressed to the Ministry of Public Instruction for an " équivalence du baccalauréat." All these documents—passport, etc., certificate, translations, " récépissé " and request—must be delivered personally to the Secy. of the Faculty or School in which it is desired to register. Graduates seeking to obtain a Doctorat would similarly apply for an " équivalence " of the Licence instead of the Baccalauréat. An order of Oct. 6, 1924, gives a list of certain degrees which will be accepted without question as equivalent to the French " licence " for admission to candidature for the doctorates in law, science and letters. They include First-class Honours degrees of all the Univs. of the U.K. and the LL.B. of Scottish and Irish Univs. and various degrees of many other countries.

In nearly all the Univs. there are special committees who make it their business to assist foreign students in obtaining all needful information. Students under 28 years of age attending holiday courses in French Univs. may obtain tickets at half the ordinary fares for the journey from London and back. In order to get the benefit of these concessions students should apply to the Secretary of the Holiday Course for the requisite vouchers for journeys beyond Paris at least 15 days beforehand, and to the Director of the Office National, 1-7 Cromwell Gardens, London, S.W.7, for the journey between London and Paris.

Information regarding details of arrangements for travel to and in France can be obtained free of charge from the Office Français du Tourisme, 56 Haymarket, London, S.W.1. Information regarding classes in the French language in London can be obtained from the Institut Français, 1-7 Cromwell Gardens, London, S.W.7. The Director of this Institut (D. Saurat, D. ès L., Prof. in the Univ. of Bordeaux) is likewise Director of the London branch of the Office National.

AIX-MARSEILLE

Recteur: Padé (at Aix). *Faculties*: at Aix—Droit et Lettres; at Marseille—Sciences (Laboratoire de zoologie maritime sur le rivage, Musée Colonial), École de plein exercice de Médecine et de Pharmacie, Institut de Médecine et de pharmacie coloniales, Institut du Cancer, Observatoire, Institut technique supérieur, École de Chimie, École d'Ingénieurs, Faculté libre de Droit.

ALGER

Recteur: E. Ardaillon. *Faculties*: Lettres (Doyen—P. Martino); Droit (M. Morand); Sciences (L. Rouyer); Méd. et Phm. (J. Hérail). Certif. d'études fr. and Diplôme d'études universitaires for foreign students.

BESANÇON

Recteur: M. Alengry. *Faculties*: Sciences (Doyen—M. Chaudier); Lettres (Cloché). Ecole de Chimie Industrielle. École préparatoire de Méd. et Phm. Inst. de Chronométrie. Cours de Français pour les étudiants étrangers under direction of M. Villat, prof. d'Hist. Moderne à l'Université (both in terms and vacation). Vacation courses, reorganized in 1920, July 1 to Oct. 31. Registration for whole period, 225 fr.; 2 weeks, 75 fr.; 1 mo., 120 fr., etc. Certif. d'études fr. (Diplôme d'Univ.) obtainable by 3 mos.' vacation course and examn. Instruction also given by correspondence. Special booklet for foreigners. Comité de Patronage (30 rue Mégevand) will supply all necessary information gratuitously. Courses, open to foreigners, lead to Diplomas in Indust. Electricity (2 yrs.), Chem. Engin. (3 yrs.), Agric. (2 terms of 6 months each).

BORDEAUX

Recteur: F. Dumas. *Faculties*: Droit (Doyen—L. Duguit); Méd. et Phm. (C. Sigalas); Sciences (P. Cousin); Lettres (G. Cirot). Observatoire. Marine Zool. station at Arcachon. Special courses for foreigners are provided during the sessions but not in vacations. Schools of Indust. and Agric. Applied Chem., of Wireless Teleg., and of Timber and Resinous Products. *Address*—Office universitaire de logement et de renseignements, 16 place de la Bourse. The president of the *Comité de patronage des étudiants étrangers* is P. Berger, Prof. of English. Number of students (1923–24): Law, 677; Med. and Phm., 1292; Sc., 452; Letters, 331; Total, 2752.

CAEN

Recteur: Maigron. *Faculties*: Droit (Doyen—Nézard); Sciences (A. Bigot); Lettres (A. Barbeau). École prép. de Méd. et Phm. Marine Zool. station at Luc-sur-Mer. Inst. de Droit Commercial. Inst. Technique de Normandie. Cours de Français pour les étrangers, Easter to June 30. Fee, 220 fr. Certif. d'études fr. de l'Univ. or Diplôme élém. de Fr., 30 fr. *Livret de l'étudiant étranger* and all requisite information obtainable from the Comité des étudiants étrangers, which keeps a list of lodgings. Facilities for research in Geol., Bot., Hist. of Normandy. Number of students (1922–23): Law, 294; Sc., 217; Arts, 222; Med., 49. Associated with the Univ. is a Chemical Institute at Rouen.

CLERMONT-FERRAND

Recteur: J. Gheusi. *Faculties*: Sciences (Doyen—R. Chavastelon); Lettres (A. Audollent). École de Méd. et Phm.; Inst. de Géog.; Faculté Libre de Droit; Observatoire Météor.; Station Limnologique de Besse, open Aug. and Sept.; Inst. de Chimie et de Tech. Industrielles. Publications: *Annuaire* and *L'Univ. de C.-F. et le pays d'Auvergne*, 248 pp. Cours de vacances pour les Étrangers, July 15 to Aug. 31, in French, Phonetics, Language, Literature, and Civilization. *Address*—Faculté des Lettres, 4 Rue Pascal. Number of students: Sciences, 139; Letters, 168; Med., 54; Law, 228; Total, 589.

DIJON

Recteur: Th. Rosset. *Faculties*: Droit (Doyen—Deslandres); Sciences (Queva); Lettres (G. Davy). École prép. de Méd. et Phm. (Dr. Leclerc). École de Notariat (M. Besson). Special French courses for foreigners during terms and vacations. Vacation courses: Phonetics, Grammar, Vocabulary, Literature, Civilization, July 1 to Oct. 31; Cours Commerciaux, July 22 to Sept. 1. Inscription, 1 month, 100 fr.; 6 weeks, 140 fr.; 2 mo., 160 fr.; 3 mo., 190 fr.; 4 mo., 220 fr. Academic year fee, 270 fr.; half-year (Nov.-Feb. or March-June), 160 fr. List of lodgings and other information obtainable from M. P. Martenot, 3 rue de Metz, Dijon. Number of students: Law, 371; Sc., 145; Letters, 268; Med., 61; Vacation courses, 421.

GRENOBLE

Recteur: H. Guy. *Faculties*: Droit (Doyen—L. Balleydier); Sciences (E. Gau); Lettres (P. Morillot). École de Méd. et Pharmacie; Inst. Polyt. (Electrotech. and Paper Manuf.); Inst. d'Électrochimie et d'Électrométallurgie; Inst. de Géog. Alpine; Inst. de Phonétique; Inst. d'Enseigt. Comm.; Inst. at Florence and Naples.

Courses specially designed for foreigners are provided during the academic year (Nov. 3 to June 30), and vacation courses July 1 to Oct. 31. Fees (Droits d'inscription): During the academic year—190 fr. each semester; vacation—one month 140 fr., two months 210, three 260, four 300. No diploma required for matricn. for these courses. The Certif. d'études fr. may be obtained by examn. after one semester or 2 months of the vacation course; Dipl. des hautes études de langue et lit. fr., or Dipl. d'études sup. de phonétique fr., after 2 semesters or 1 semester *plus* vacation course; Doctorat d'Univ. (examn. fee, 100 fr.), after 4 semesters, including at least 2 full attendances (partial dispensation in exceptional cases). The vacation courses have been provided annually for many years, are highly organized, and are attended by foreigners in large numbers. Full information obtainable from Comité de Patronage des étudiants étrangers at the Univ. There is a hostel and club for women, founded in 1919 (Foyer de l'Étudiante. *Address*—Mme. la Directrice). Correspondent for advanced study or research—Prof. A. J. Farmer, Faculté des Lettres. Number of students

(1923–24): Law, 317; Sc., 949; Letters, 791; Med., 58; in Vacation courses (1924), 842.

LILLE

Recteur: A. Chatelet. *Facultiés*: Droit (Doyen—C. Mouchet); Méd. et Phm. (P. Charmeil); Sciences (M. Maige); Lettres (G. Lefèvre). Inst. de Chimie, d'Electrotech., de Pédag., de Géog., de Papyrologie. Laboratoire de Phonétique. Lab. of Marine Biology at Portel. At Lille are also Catholic Faculties: Theol., Droit, Méd. et Phm., Lettres, Sciences; andm any important tech. and professional schools. Courses for Diplôme d'études fr., Diplôme sup. pour l'enseignement de la langue et de la lit. fr. à l'étranger, and Diplôme d'études sup. de phonétique fr., Nov. 1 to June 30; fee—175 fr. for 2 semesters. Partial courses, 1 mo., 30 fr., etc. Facilities for research with a view to Doctorat de l'Univ. in letters, economics, science, pharmacy, medicine. Diplomas in Russian, dentistry, elec. engin., chem. Address—Prof. André Lirondelle, Office des étudiants étrangers, 9 rue Auguste Angellier. Vacation courses at Boulogne-sur-mer and Calais (490 students in 1924), July 20 to Aug. 29; supérieur (littéraire, pratique, or commercial), moyen, and élém. Instruction in French Literature, with special reference to Univ. of London, B.A., Pass and Honours examinations. Fees—2 weeks 60 fr., 3—80 fr., 4—100 fr., 5—120 fr., 6—140 fr. For particulars apply to M. Guerlin de Guer, Directeur des Cours, 103 rue de Paris, La Madeleine (Nord). Lille has established an Inst. Français in London, 1-7 Cromwell Gardens, S.W.7. Number of students: Law, 383; Med., 348; Sc., 368; Letters, 329.

Lille has also a State-supported *Industrial Institute of Northern France* which trains (3 yrs.) elec., mech., spinning-trade, and chem. engineers.

LYON

Recteur: J. Cavalier. *Facultiés*: Droit (Doyen—L. Josserand); Méd. et Phm. (I. Lépine); Sciences (C. Depéret); Lettres (Ehrhard). École de Chimie Indust.; École de Tannerie; Inst. Bact.; Inst. de Chimie; Inst Agron.; Station de Biol. Marine de Tamaris-sur-Mer; Observatoire; Laboratoires de Photométrie et de Photog.; Inst. de Droit Comparé; Inst. Franco-Chinois; Schools of Law and of Engin. at Beirut (Syria). At Lyon are also Catholic Faculties of Theol., Droit, Lettres, Sciences; École Centrale (Tech.); École Nat. Vét. Comité de tutelle des étudiants étrangers (Quai Claude Bernard). Correspondents for advanced study and research: Profs. P. Courmont (Medicine), Thomas (English), Mlle. Villard (American Lit.).

MONTPELLIER

Recteur: J. Coulet. *Facultiés*: Droit (Doyen—M. Moye); Méd. (J. Evzière); Sciences (Godechot); Lettres (J. Vianey); Pharmacie (G. Massol). Inst. de Biol., Botanique, Electrothérapie et Radiog.; Jardin des Plantes; Marine Zool. Station at Cette. Special courses (Elem. and Sup.) for foreigners during terms at Institut des Étudiants

Étrangers, 12 rue des Carmes (Director, Prof. Grammont, Faculté des Lettres). For information regarding board and lodging apply to Prof. Valéry, Faculté de Droit, Sec. du Comité de Patronage des Étudiants Étrangers. At Montpellier are also an École Nat. d'Agr., an École Sup. de Commerce, a Conserv. Nat. de Musique, and an École Nat. des Beaux-Arts. Secrétariat de l'Université : Jardin des Plantes Secrétaire ; M. Fourcade.

NANCY

Recteur : Ch. Adam. *Faculties* : Sciences (Doyen—P. Petit) ; Méd. (L. Spillman) ; Droit (F. Gény) ; Lettres (B. Auerbach) ; Pharmacie (L. Brunz) ; Inst. Sérothérap. ; Inst. Dent. , Inst. Chim., Electrotech. et de Méc. app., Métall. et Minier, Agr , Colonial, Géol. app., de Brasserie et de Malterie, de Laiterie ; Inst. Commercial ; Diplômes d'Ingénieur de l'Univ. Special courses for foreigners, July 6–Sept. 25 : Classes in Literature, History, Geography, and Civilization of France of to-day, and exercises in French Phonetics, Grammar, etc. Candidates prepared for the examns. of l'Alliance Française. Enrolment fee, 85 fr. a month. Bureau de Renseignements de l'Univ., 13 place Carnot, publish a leaflet of Renseignements généraux.

PARIS

Recteur : P. Appell. *Faculties* : Droit (Berthélemy, Doyen) ; Médecine (H. Roger) ; Sciences (Molliard) ; Lettres (Brunot) ; Pharmacie (Radais). École Normale Sup. (Dir., G. Lanson) ; Inst. de Méd. coloniale, de Méd. légale, de Puériculture, de Chimie Appliquée, Radium, Aérotechnique, de Statistique, de Criminologie, des Hautes Études Internationales, de Physique du Globe, de Pédag., School for preparation of professors of French in foreign countries, and numerous other Insts. in the Faculty of Letters.—Special courses for foreigners are provided at the Sorbonne under the care of the Société des Amis de l'Univ. de Paris. The special courses are conducted in vacations as well as during the "année scolaire." No diploma is necessary for admission. Fee for 4 months' course, 300 fr. ; 1 month 100 fr. The Vacation courses at the Sorbonne are from July 1 to Sept. 30—France of the past, and Oct. 1-31—France after the war (literature, fine arts, philos., politics). Accounts of the numerous official and other Institutions of higher learning in Paris, of the Libraries, Laboratories, Museums, etc., and of the Associations organized for the benefit of students are included in the *Livret de l'Étudiant*, issued by the Bureau des Renseignements at the Sorbonne. Number of students in 1923–24 in the faculty of Law, 9030 ; Méd., 4971 ; Sciences, 3270 ; Lett., 3894 ; Pharmacie, 903.

Correspondents for advanced study and research : Law—Profs. Pol Collinet (Pandects), C. Rist (Pol. Econ.), H. Levy-Ullmann (Comp. Civ. Law), Germain-Martin (Legisln. and Industry), G. Jèze (Pub. Finance), A. de Lapradelle (Internat. Law) ; Medicine—Profs. Faure (Gynæc.), Brindeau (Obst.), Hartmann (Surg.), Lecène (Path. Ext.), Legueu

(G.-U.), Achard (Med. Clin.), Guillain (Neur. Clin.); Sciences—Profs. Fabry (Physics), Caullery (Zool.); Letters—Profs. Legouis, Cazamian, Huchon, and Guyot (English) and Cestre (American); Pharmacy—Profs. Behal (Org. Chem.), Coutière (Zool.), Guérin (Nat. Hist.).

POITIERS

Recteur: L. Pineau. *Facultes*: Droit (Doyen—A. Girault); Sciences (J. Welsch); Lettres (P. Boissonnade). École prép. de Méd. et Phm.; Lab. d'analyses agr.; special practical courses, open to candidates without diploma, in the departments of Industrial Electricity and Industrial Chemistry. Special courses for foreigners. Special Certif. d'études littéraires for foreigners (examn. fee, 20 fr.), Certif. d'apt. à l'enseigement du Français à l'étranger (examn. fee, 50 fr.), Doct. de l'U., mention "Lettres" (examn. fee, 100 fr.). Vacation courses at Tours, July 1 to Sept. 30. M. Genévrier, Directeur, 1 rue de la Grandière. Comité de Patronage assists foreigners in arranging for board and lodging, Secy.—M. Castelain, Prof. of Engl. Lit., 18 place de la Liberté. Illustrated booklet in French and English. Number of students: Law, 517; Sc., 228; Letters, 267; Med. and Phm., 47; Total, 1059.

Correspondents for advanced study and research: Law—Profs. Girault and Solus; Sc.—Welsch; Letters—Rivaud, Plattard, Fauconnet, Tourneur-Aumont.

RENNES

Recteur: H. Gérard-Varet. *Faculties*: Droit (Doyen—M. Turgeon); Sciences (G. Moreau); Lettres (G. Dottin). École de plein exercice de Méd. et Phm. Special French courses (French Phonetics, French Lit. and Hist.) for foreigners during terms; vacation courses at St.-Servan in August, in French Lang., Hist., and Lit., and exercises in conversation. Address—M. Duchêne, Office des Étudiants étrangers, Faculté des Lettres, place Hoche, Rennes. Number of students: Law, 470; Science, 505; Letters, 210; Med., 284. At Rennes are an École Nat. d'Agr., a Technical School (2 yrs.' course), and a School of Engineering (3 yrs.).

STRASBOURG

Recteur: S. Charléty. *Faculties*: Théol. Cath. (Doyen—Abbé Martin); Théol. Prot. (Ehrhard); Droit (Beudant), Méd. (G. Weiss); Sciences (Muller); Lettres (Pfister); Pharmacie (Jadin). Observatoire; Inst. de Chimie et de Physique; Centre d'études médiévales; Inst. commercial d'enseignement sup. Special courses of the Inst. d'études françaises modernes, Nov. 1 to Feb. 28 and March 1 to June 30. Vacation courses in French and in German, July 1 to Sept. 20. Special facilities for research in Physics and Maths., Chem. Engineering, Geophysics (Inst. de Physique du Globe), Petroleum (advanced Chem. studies), Bact., Civ. Law, Comparative Lit., Mediæval Studies, etc. Inquiries may be addressed to Bureau de Renseignements pour les

étudiants étrangers at the Univ. Correspondents for advanced study or research: Prof. Koszul and M. Pons.

TOULOUSE

Recteur: J. Dresch. *Facultiés*: Droit (Doyen—M. Hauriou); Méd. et Phm. (E. Abelous); Sciences (P. Sabatier); Lettres (F. Durrbach). Inst. Agricole de Chimie; Électrotech. et de Méc. app., d'études méridionales; Inst. normal d'études françaises; Inst. d'Hydrologie; d'Hydrobiologie et de Pisciculture; Station d'essais de semences et de path. végétale; Observatoires (Toulouse; Bagnères-de-Bigorre et Pic du Midi); Union of French and Spanish students of the French Inst. of Madrid and Barcelona. École Nat. de Méd. Vét. Vacation courses at Bagnères-de-Bigorre (M. Rotschild, prof. au Lycée de Tarbes, Htes.-Pyrénées) and Burgos (M. Belaygue, prof. au Collège de St. Gaudens, Hte.-Garonne) in July, Aug., Sept., including French for foreigners and Spanish for French and others. The Inst. Français organizes each year in important towns in Spain series of conferences attended by distinguished French professors of various branches of Science. Bureau de Renseignements, 4 rue de l'Université. Number of students: Law, 622; Med., 464; Sciences, 941; Letters, 429.

GERMANY

For the following statistics of German institutions for higher education the Universities Bureau is indebted to Dr. Remme, Director of the Deutsches Institut für Ausländer in the University of Berlin. This institute offers to foreign students information concerning opportunities for study and scientific training, assistance in securing accommodation in the homes of cultured German families, and private instruction in German and other languages and all branches of Science and Art. It conducts throughout the year courses of instruction in German, lectures on German literature, art, history, education, and economic relations, visits to museums, etc., excursions, student tours, and social evenings (in Lessing Museum). It has a library (2000 vols.) of works on cultural life in Germany, and publishes monthly *Mitteilungen*. The Akademisches Auskunftsamt an der Universität Berlin (Address—C 2, Universitätsgebäude) has published a leaflet in English containing a convenient summary of conditions of study in German Universities and Colleges, and offers, as does the Amtliche Akademische Auskunftstelle at Leipzig University (Schillerstr. 7), to give advice in matters regarding study on receipt of a request accompanied by a remittance to cover postage on the reply. Inquiries regarding student organizations, etc., may be addressed to Auslandsamt der Deutschen Studentenschaft, Charlottenburg, Berliner Str. 137. Prospectuses of the courses can be obtained from the several universities in Feb. and June for the summer and winter semesters respectively.

Admission of foreign students to Univs. in the occupied area is granted by the Ministerium für Kunst, Wissenschaft und Volksbildung at Berlin on application to the Univ. Certificates qualifying for

admission to a British or Irish Univ. ensure admission without difficulty. Fees for foreign students are the same as for Germans, viz.—matricn. 25 M., general lecture fee 50-60 M., special (seminars with special libraries) 2½ M. for one hour per week, and benefit funds about 10 M. Science laboratories and Medical clinics might bring total charges to 170-220 M. per semester. The Sommer Semester is from last week of April to July 31, Winter, last week Oct. to end Feb. In nearly all the Univs. there is an " Englisches Seminar."

Vacation courses for foreigners at Berlin (1) for beginners, July 6 to Aug. 29, 1925; (2) for advanced students, leading to Diploma of Teacher of German in other lands, Aug. 3 to 29, 1925. Followed by a study tour in South Germany, Sept. 1-8. Address—Deutsches Institut für Ausländer. Jena offers a vacation course, Aug. 3-15, 1925, in Philos., Pedagogy, Natural Sciences, Polit. Econ., Domestic Econ., and Language. Address—Frl. Blomeyer, Jena, Karl-Zeiss-Platz. Bonn announces a vacation course, April 14 to 18, in Classical and Modern Literature, Mod. Langs., Science, Comp. Religion, and Med. Radiology; a course is in preparation for October also.

N.B. The letters ET, CT, L, P, LP, E, M, V, A = Faculties of Evangelical Theology, Catholic Theology, Law, Political Science, Legal and Political Science, Economic Science, Medicine, Veterinary Science, and Arts (including Philosophy, Natural and Mathematical Sciences, etc.) respectively. The figures show first the number of Professors, Lektors, and Privat-Dozents in 1924–25, and second the number of students in the Summer Semester, 1924.

UNIVERSITIES

BERLIN. ET 26 : 237—L 34 : 2333—M 239 : 1667—A 296 : 5713.

BONN. ET 13 : 63—CT 22 : 358—L 20 : 496—M 65 : 498—A (and AGRIC. SCHOOL AT BONN-POPPELSDORF) 117 : 1593.

BRESLAU. ET 13 : 61—CT 14 : 234—LP 20 : 1720—M 71 : 627—A 124 : 1511.

ERLANGEN. ET 12 : 176—L 7 : 462—M 38 : 210—A 43 : 640.

FRANKFURT A./M. L 15 : 432—PE 36 : 1402—M 75 : 226—A 111 : 623.

FREIBURG. CT 15 : 312—LP 24 : 1157—M 55 : 579—A 90 : 865.

GIESSEN. ET 10 : 38—L 10 : 329—M 39 : 189—V 7 : 90—A 78 : 977.

GÖTTINGEN. ET 15 : 144—LP 19 : 811—M 44 : 268—A 123 : 1159.

GREIFSWALD. ET 18 : 74—LP 12 : 457—M 35 : 295—A 64 : 280.

HALLE. ET 20 : 144—LP 17 : 648—M 58 : 252—A 104 : 1337.

HAMBURG. LP 38 : 1330—M 97 : 235—A 140 : 857.

HEIDELBERG. ET 11 : 80—L 20 : 680—M 59 : 448—A 113 : 1111.

JENA. ET 7 : 27—LE 22 : 754—M 51 : 408—A 101 : 844.

KIEL. ET 14 : 41—LP 24 : 690—M 46 : 446—A 95 : 547.

KOLN. PE 39 : 2543—L 15 : 752—M 47 : 110—A 71 : 756.

KÖNIGSBERG. ET 13 : 57—LP 25 : 690—M 59 : 289—A 81 : 703.

LEIPZIG. ET 18 : 159—L 19 : 1164—M 79 : 683—V 21 : 102—A 166 : 2470.

MARBURG. ET 18 : 150—L 16 : 716—M 37 : 359—A 82 : 928.

MÜNCHEN. CT 16 : 210—L 19 : 2092—PE 21 : 936—M 128 : 1373—V 14 : 168—A 148 : 2452.

MÜNSTER. ET 12 : 50—CT 18 : 370—LP 26 : 1218—A 105 : 1167.

ROSTOK. ET 6 : 85—LE 10 : 316—M 44 : 272—A 45 : 257.

TÜBINGEN. ET 13 : 459—CT 8 : 146—LE 23 : 765—M 39 : 328—A 61 : 752.

WÜRZBURG. CT 14 : 154—LP 13 : 1113—M 47 : 596—A 52 : 641.

COLLEGES OF TECHNOLOGY

AACHEN 1001, BERLIN 3387, BRAUNSCHWEIG 951, BRESLAU 1077, DARMSTADT 2177, DRESDEN 2999, HANNOVER 2228, KARLSRUHE 1382, MÜNCHEN 4373, STUTTGART 1703.

GREECE

The National University in Athens was established in 1837 as "Otto's University," by which name it was known until 1862. In 1912, owing to some clauses in the will of a wealthy Greek in Russia, who 100 years ago left a substantial sum for the establishment of a Greek Univ. in independent Greece, the National Univ. was divided into two distinct sections, viz., the NATIONAL UNIVERSITY OF ATHENS, comprising faculties of Theology, Medicine (with Institute of Dentistry and College of Pharmacy), and Law; and the KAPODISTRIAN FACULTY (after the name of the first President of Greece, Count Kapodistria), comprising faculties of Maths. and Natural Science and of Philosophy or Letters. The University Authorities are common for both. They grant the degree of Doctor and, except in the Medical Faculty, a "Licence." The period of studies is: in Medicine—5 years, including one year of practical work in hospitals; in other Faculties—4 years. Annexed to the Univ. are Laboratories of Experimental Psychology and Pedagogy, and Botanical Gardens.

The staff comprises 75 Professors and 6 Privat-Docents. Number of students (1924–25): Theol., 265; Law, 6608; Med., 2745; Dent., 388; Phm., 755; Philos., 1688; Math. and Physical Sciences, 1126; Total, 13,565, including 660 women.

There is a POLYTECHNIC COLLEGE at Athens with departments of Engineering, Machine Construction, Electrotechnics, Architecture, Painting, etc. A Greek *Academy* is to be established on the lines of the Institut de France. There are a British School of Archæology at Athens (see Appendix XXIV. viii.) and an influential Archæological Society.

A law has recently been passed for establishing a University at Salonika.

HOLLAND

For full information regarding the Netherlands Univs. students are recommended to apply to the Office of the Netherlands Committee for international academic relations—temp. address, 33 Wasstraat, Leyden. This Committee was established in 1921 with a view to promoting the study of foreigners in the Netherlands and *vice versa* and to strengthening the relations between Dutch and foreign Univs. A *Guide-book for Foreign Students in Holland*, in English, has been published by it. The Committee's Secretary has kindly supplied the Universities Bureau with the following summary.

The Netherlands Univs.—by which term are also denoted here the so-called " Hoogescholen " or High Schools, which are on equal footing with the ordinary Univs.—are governed by a Board of Curators, which forms an intermediate body between the Univs. and the Government, the Municipality, or the Private Corporation by which they are controlled. Internal matters are regulated by the Academical Senates, consisting of the entire body of professors and presided over for annual terms by one of them, called Rector Magnificus. Owing to their relatively modern origin, the Dutch Univs. have never possessed the college system. The teaching staffs, though quite adequate, are not so extensive as in some other countries, since the system of private lecturers is not very much developed. The equipment in the way of laboratories and other means of research is generally excellent, and the attendance at the Dutch Univs. being comparatively small, they provide excellent opportunities to students for research and post-graduation work under the direct supervision of the professors.

The ordinary courses of lectures are open to everybody at an annual fee of 300 guilders. Persons not entering for examns. are allowed to follow one or two single courses at a fee of 40 guilders each.

Admission to examns. is granted—as far as British students are concerned—to holders of one of the following certificates, which have been specially recognized: Bachelor, Master or Doctor in the Faculty of Arts of any Univ. of the U.K. or Laval, Montreal, Toronto, Victoria (Toronto), Adelaide, Melbourne, Sydney, N.Z., Cape Town, Allahabad, Bombay, Calcutta, Madras, Panjab. Other exemptions may be granted on application in individual cases by the Minister concerned on advice of a Faculty and the Senate.

The so-called Academical Statute of 1921 has fundamentally altered the studies at the Univs. proper, and leaves the students considerable liberty in the choice of their subjects. Full particulars will be found in the guide-book mentioned above. The degree of Doctor is acquired after having passed the doctorate examn. by writing and defending a dissertation accompanied by at least 6 theses. Other languages than Dutch are allowed. Exemption from one or more of the Univ. examns. may be granted to individual foreigners in possession of diplomas or degrees by the Minister concerned on the advice of a Faculty and the Senate, as above.

Division of the Academical year in semesters or terms is unknown in

Holland. The Academical year begins about Sept. 20 and lasts until about July 10.

The cost of living, everything included, may at present be estimated at about £150-£200.

A *Summer School* of Philosophy is conducted at Amersfoort. It is not a University institution.

AMSTERDAM: MUNICIPAL UNIVERSITY

Rector Magnificus: Prof. dr. O. Lanz. *Secy. of Senate*: Prof. J. H. Scholte. *Deans of the Faculties*: Theol.—Prof. dr. H. Hackmann; Law—Prof. dr. P. Scholten; Med.—Prof. dr. P. Ruitinga; Maths. and Physics—Prof. dr. Hk. de Vries; Philology and Philos.—Prof. dr. Tj. de Boer. Commercial—Prof. dr. N. W. Posthumus. *Foreign Correspt.*: *Prof. dr. Ph. Kohnstamm.

AMSTERDAM: FREE UNIVERSITY

Rector Magnificus: Prof. dr. L. Bouman. *Secy. of Senate*: Prof. dr. G. Ch. Aalders. *Faculties*: Theology, Law, Philology and Philosophy. *Foreign Correspt.*: *Prof. dr. R. H. Woltjer.

DELFT: TECHNICAL UNIVERSITY

Rector Magnificus: Prof. C. Feldmann. *Secy. of Senate*: Prof. G. A. F. Molengraaff. *Presidents of the Sections*: Universal Science—Prof. dr. W. A. Versluys; Hydraulics and Road Constn.—Prof. C. K. Visser; Archit.—Prof. A. W. M. Odé; Mechanics and Naval Archit.—Prof. L. A. van Royen; Electrotechnics—Prof. G. J. Elias; Chemical Technology—Prof. dr. F. E. C. Scheffer; Mining—Prof. R. W. v. d. Veen. *Foreign Correspt.*: *Prof. G. A. F. Molengraaff, Vice-President of the Committee.

GRONINGEN: STATE UNIVERSITY

Rector Magnificus: Prof. dr. F. M. Th. Bohl. *Secy. of Senate*: Prof. dr. J. A. Barrau. *Deans of the Faculties*: Theol.—Prof. dr. J. Lindeboom; Law—Prof. dr. H. van Goudoever; Med.—Prof. dr. E. D. Wiersma; Maths. and Physics—Prof. dr. F. M. Jaeger. *Foreign Correspt.*: *Prof. dr. J. F. van Bemmelen.

LEYDEN: STATE UNIVERSITY

Rector Magnificus: Prof. dr. A. J. Blok. *Secy. of Senate*: Prof. dr. W. de Sitter. *Deans of the Faculties*: Theol.—Prof. dr. R. N. Roessingh; Law—Prof. dr. D. van Blom; Med.—Prof. dr. P. Th. L Kan; Maths. and Physics—Prof. dr. J. J. Blanksma; Philology and Philos.—Prof. dr. A. W. Nieuwenhuis. *Prof. dr. N. van Wijk, Chairman of the Committee for International Academic Relations. *J. J. L. Duyvendak, Secy. of the Committee.

NIJMEGEN: ROMAN CATHOLIC UNIVERSITY

(Founded 1923, by the Foundation St. Radbaud.)

Rector Magnificus: Prof. dr. G. de Langen Wendels. *Secy. of Senate*: Prof. dr. J. van der Grinten. *Faculties*: Theology, Law, Philology and Philosophy. *Foreign Correspt.*: *Prof. dr. N. de Vries van Hukelingen.

ROTTERDAM: NETHERLANDS UNIVERSITY FOR COMMERCE

Rector Magnificus: Prof. dr. N. J. Polak. *Secy. of Senate*: Prof. dr. Z. W. Sneller. *Foreign Correspt.*: *Prof. dr. H. R. Ribbius.

UTRECHT: STATE UNIVERSITY

Rector Magnificus: Prof. dr. H. F. Nierstrasz. *Secy. of Senate*: Prof. dr. J. P. Suyling. *Deans of the Faculties*: Theol.—Prof. dr. A. Noordtzy; Law—Prof. dr. C. W. Star Busmann; Med.—Prof dr. H. J. Laméris; Maths. and Physics—Prof. dr. N. Schoorl; Philology and Philos.—Prof. dr. W. Vogelsang. *Foreign Correspt.*: *Prof. dr. E. J. Cohen.

UTRECHT: UNIVERSITY FOR VETERINARY SCIENCE

Rector Magnificus: *Prof. dr. J. H. Hartog. *Secy. of Senate*: Prof. dr. L. de Blieck.

WAGENINGEN: UNIVERSITY FOR AGRICULTURE

Rector Magnificus: Prof. dr. J. van Baren. *Secy. of Senate*: Prof. J. W. Dieperink. *Foreign Correspt.*: *Prof. dr. J. C. Kielstra. Departments of Study: Agriculture, Colonial Agr., Horticulture, Forestry, Colonial Forestry.

(The professors whose names are starred,* being members of the Committee for international academic relations, are prepared to supply applicants with information concerning studies in the Netherlands.)

HUNGARY

UNIVERSITY OF BUDAPEST

(Budapesti Királyi Magyar Pázmány Péter Tudományegyetem)

Rector: A. Zubriczky, D.D. Numbers of profs. and students: Theol.—18, 101; Law—42, 2281; Med.—145, 2127; Arts—146, 1026. Vacation courses, Aug. 25–Sept. 15, in history, literature, oriental

studies, modern languages, art, geography, economics, constitutional law and Central European politics. There is a committee for patronage of foreign students (Külföldi Hallgatók Bizottsága). *Secy.*: Dr. Arthur B. Yolland, Prof. of English, VI. Munkácsy-utca, 23, Budapest. Students attending vacation courses are entitled to diplomatic visé and special facilities for boat journey Vienna—Budapest. There is an Anglo-Hungarian Society (Pres., Count Gyula Andrássy) under the auspices of the Hungarian League of Nations Union (Houses of Parliament, Budapest). Of special interest to foreign students are Dr. Yolland's lectures which are delivered in English, and those on French, German, and Italian literature which are delivered in French, German, and Italian respectively. Cost of full board and lodging in private family from £8 to £12 a month.

The "Royal Hungarian Joseph" UNIVERSITY OF TECHNICAL SCIENCE offers 8-semester (4 yrs.) courses in each of 5 branches—Archit., Highways, Mechanics, Chemistry, and General; and 2-semester post-graduation courses in Economic Science (as applied to Engineering). Number of students? 4000.

At Budapest are also Schools of Economics and of Veterinary Science, Academies of Art, of Music, of "Reformed Theology," of Commerce, and Research Institutes of Geophysics, Meteorology, Seismology, Chemistry, Animal Physiology, and of Oriental Studies.

ITALY

ROYAL UNIVERSITIES: Bologna, Florence*, Genoa, Macerata*, Milan*, Modena*, Naples, Padua, Parma*, Pavia, Pisa, Rome, Siena*, Turin; in Sicily—Catania*, Messina*, Palermo; in Sardinia—Cagliari, Sassari*. Those marked * are not entirely State-supported.

FREE UNIVERSITIES: Camerino, Ferrara, Perugia, Urbino, Univ. Cattolica del S. Cuore at Milan.

OTHER INSTITUTIONS OF UNIVERSITY GRADE: Polytechnics at Bologna, Milan, Naples, Padua, Palermo, Pisa, Rome, and Turin; High Commercial Schools under the Ministry of Commerce at Turin, Genoa, Milan, Venice, Rome, Bari, and Catania.

The Universities are all under State control, exercised through a Directorate-general for Higher Education, a department of the Ministry of Public Instruction, but the degree courses are no longer prescribed by the State, nor are the standards and legal values of the degrees uniform throughout the country, because a *Royal decree* of Sept. 30, 1923 (n. 2102), has given a measure of scientific and administrative autonomy to the Universities, so that, still under superior control, each may have its own regulations in conformity with a general State regulation, and its special program of degree courses. These have only an academic value, as after the University studies special State

examns. are prescribed for admission to the exercise of professions. The University system is articulated to a Secondary School course of 8 years (5 in the Ginnasio and 3 in the Liceo), culminating in a " Licenza Liceale " obtained normally at the age of 18.

STAFF. The chief administrative officer in each University is the *Rettore*, who is appointed triennially by the Government. At the head of each Faculty or School is a *Preside* (appointed by the *Rettore*) or *Direttore* respectively. The instructional Staff consists of Professori *di ruolo* (about 1200 in all—excluding the Free Universities) who receive fixed State salaries, and Professori *incaricati* paid by the Univ.

ORGANIZATION OF STUDIES. The ordinary faculties are: Law; Medicine and Surgery; Physical, Mathematical and Natural Sciences; Letters and Philosophy. In these four faculties the only degree (laurea) is that of Dottore. The degree course covers 4 (in Medicine 6) years. In Engineering a 5 years' course leads to the degree of Ingegnere or Architetto. Attendance at lectures (which are freely open to the public) is optional, and intermediate examinations are not held, the sole conditions for qualifying for degrees being registration and passing the examn. (esame speciale) at the end of each course and the esame di laurea or general examn., at which a dissertation is presented and publicly discussed and theses are orally defended. Requirements for degrees have hitherto included the following:

In the Faculty of *Law*, 18 obligatory courses.

In the Faculty of *Letters and Philosophy* candidates for degrees take 12 courses. The following are compulsory subjects for the degree in (1) Letters or (2) Philosophy respectively: (1) Italian, Latin and Greek Literatures, History of Philosophy or Theoretic Philosophy; (2) Theoretic Philosophy, Pedagogy, Moral Philosophy, History of Philosophy, Experimental Psychology, Italian and Latin Literatures, either Greek or some Modern Literature or Ancient or Modern History.

In the Faculty of *Physical, Mathematical and Natural Sciences* the doctorate may be taken in Mathematics or Physics or Chemistry or Natural Sciences. A scheme has been prepared for mixed degrees in Physical Science and Maths., and in Physical Science and Nat. Sc., intended for teachers who are required to instruct in a group of scientific subjects.

In *Medicine* the instruction is of an eminently practical character. *Dentistry* is taught as a branch of Medicine, and there is in connexion with each Medical Faculty a School of *Pharmacy* which confers after a 4 years' course a diploma giving the right to practise the profession of Pharmacy, and after a 5 years' course the degree of Doctor of Chemistry and Pharmacy.

For the degree of *Engineering* or *Architecture* the first 2 years, devoted chiefly to Mathematics, Chemistry, Elementary Architecture, and Ornamental Design, may be taken in any Univ., and the 3 subsequent years in the Polytechnic at Turin, the Higher Technical Institute at Milan, the Engineering School at Padua, or the Naval School at Genoa. Post-graduate courses leading to a special diploma are provided in Turin and Milan.

The *Veterinary* School course covers 4 years and leads to the degree of Dottore in Zooratria.

ADMISSION OF FOREIGNERS. Foreigners who have completed the entrance requirements of an approved Univ. in their own country may enter the Italian Univs., and those who have already completed one or more years of study in their own Univs. may be given advanced standing, even to the extent of being allowed, if their studies have already included courses equivalent to those prescribed for an Italian degree, to present themselves forthwith for the final examn. without taking any further courses. Except in very exceptional cases, however, a candidate who has not completed at least a year's work in the Italian Univ. is not likely to succeed in passing the examn. It is important that foreigners should bring with them properly authenticated academic records and birth certificate countersigned by an Italian consul. Foreign students are exempted from all university fees, and are even eligible for maintenance grants from a fund (200,000 lire annually) from which grants are also made to Italians studying abroad. Foreign students who wish to obtain a grant from this fund should put forward an application addressed to the Royal Ministry of Instruction (Direzione Generale Istruzione Superiore), either sending it direct to Rome, or through the Italian Representatives abroad. These applications must be presented before the beginning of the Scholastic Year (*November*). Unmatriculated "uditori" may obtain certificates of attendance at courses and of passing examns.

SPECIAL NON-PROFESSIONAL DEGREES (laurea speciali rilasciate a titolo di particulare cultura scientifica). These were instituted in 1917 specifically for foreigners, but are also open to Italians. Like the regular professional degrees they imply 4 years of study and at least 12 courses, but the student is allowed more freedom in his selection of courses and they confer no right to practise a profession. A graduate, whether of an Italian or of an approved foreign Univ, need not spend more than one year in residence. The degrees are conferred only by the Royal Univs.

RESIDENCE. The Universities do not provide or undertake any responsibility in regard to lodgings. Living expenses are in general lower than in England, especially in Naples, Bologna, Florence, and most of the smaller cities.

TEACHING POSTS IN SCHOOLS. Candidates for posts as teachers of modern foreign languages in Secondary Schools are required to pass written and oral tests in Italian and in the foreign language, and to give a demonstration lecture. These examns., which are rather severe, are open to foreigners who can produce satisfactory evidence of having had a good general education.

The SERENA FOUNDATION, 1,000,000 lire, for the encouragement of the higher study of English at Italian Univs, is administered by a Committee of the British Italian League. The income is to be divided between the Universitá Bocconi of Milan and the British Institute of Florence.

L'ISTITUTO INTERUNIVERSITARIO ITALIANO invites foreigners to apply for information and advice, especially regarding courses for foreigners, to their Segretaria Generale, R. Palazzo Venezia, N. 118, Roma. It publishes a monthly review—*Il Concilio.*

BOLOGNA

R. UNIVERSITÀ. Number of students: Law, 400; Med., 800; Science, 400; Letters, 200; School of Pharmacy, 300; Obstet., 100; Dent., 25. The Univ. Institutes are numerous and well equipped. Annexed to the Univ. are an Engineering School with 200 students, and a School of Industrial Chemistry with 150.

R. ISTITUTO DI BELLE ARTI. 100 students. Archit., Sculp., Geom.

Bologna has also Institutes of Agric. and of Vet. Med. and a graduate school for teachers.

CATANIA

R. UNIVERSITÀ. Number of students in Law, 550; Med., 450; Science, 350; Philos. and Letters, 300; School of Pharmacy, 60; Normal School, 170. Observatory of Astrophysic and Volcanic phenomena.

FIRENZE (FLORENCE)

R. UNIVERSITÀ. Number of students of Philos. and Philol., 239; Med., 551; Science, 214; Pharmacy, 41; Obstet., 48; Dent., 8; in Graduate School for Teachers, 462. The Doctorate is conferred in Letters, Philos., Nat. Sc., Chem., Med., Pharmacy. *Spring* and *Summer courses* for foreigners in Italian lang. and lit., art, hist., and geog. were held in May and July–Sept. 1924. Fee for course, 150 lire; examn., 50 lire. Average *en pension* terms, 25-35 lire a day. For enrolment and information apply to Segretario Corsi per Stranieri, 2, Piazza S. Marco, Florence, who undertakes to find lodgings if requested.

At Florence are also an Inst. of Social Science providing training for Government offices and public life, Training School for Women Teachers, Schools of Fine Arts, Music, Forestry, Colonial Agric.

The BRITISH INSTITUTE, Palazzo Antinori, Piazza Antinori, 3, comprises a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (finishing) courses, a reading-room and library, and the organizing of lectures, concerts, etc. Its Higher Diploma is of the standard of the Doctorate of an Italian Univ. Director —Dr. H. Goad. Profs.—G. Ferrando, A. Ricci. Teachers—Mme. C. Orsi-Plucknett, Miss H. M. R. Cox, Miss M. Cavé. Number of students about 140. About 75 classes or lectures weekly during 8 months.

GENOVA (GENOA)

R. UNIVERSITÀ. Number of students in Law, 400; Med., 375; Nat. Sc. and Maths., 375; Philos. and Letters, 120. Numerous special schools for medical experts, apothecaries, teachers of elementary

schools, and numerous Institutes for practical exercises. The Botanic Garden has recently acquired the Bicknel herbarium of Bordighera.

Among other Institutions for Higher Educn. in Genoa are: R. Sc. Sup. Navale, R. Ist. Sup. di Studi Commerciali (600 students), Accademia di Belle Arti (3 years and higher courses, 340 students).

MILANO

R. Università. Constituted in 1923. Number of students: Law, 280; Philos. and Letters, 240; Languages, 119; Med., 204; Obst., 56; Science, 138. At Milan are also:

R. Istituto-Tecnico Superiore. About 2700 students. Among the subjects provided for in special Schools and Labs. are Paper manuf., Electrotechnics, Electrochemistry, Textiles, Oils and Fats.

RR. Istituti Clinici di perfezionamento for advanced study and research, open only to Medical graduates. The Dental School is of very high standard. The Clinic for Occupational Diseases has served as a model for other countries.

R. Sc. Sup. di Med. Vet., 125 students.

R. Sc. Sup. di Agricoltura, 200 students.

R. Accademia di Belle Arti, about 10 profs.

R. Conservatorio di Musica, about 30 profs.

R. Istituto Lombardo di Scienze e Lettere.

R. Osservatorio Astronomico di Brera.

Universita Commerciale Luigi Bocconi (independent), about 300 students and 30 profs. and lectrs. Confers a degree of Doctor of Econ. and Com. Sc. (4 yrs.' course). Receives half the income of the Serena Foundation (v. *supra*). Number of students, 556; professors, 26.

Summer Vacation courses at Varese (37 m. N.W. from Milan) arranged by the Italo-America Assocn.

NAPOLI (Naples)

R. Università. Number of students in Law, 2300; Med., 2350; Philos., 650; Science, 3300; in Normal School, 700; Pharmacy, 500. Notable Botanic Gardens, Astron. Observatory, Vesuvian Observatory, Zoological Station with Museum, Aquarium, and Laboratories providing unequalled facilities for study of Marine Biology.

Vacation courses in Italian Literature, History, Archæology, etc., for foreign students were held in Aug.–Sept. 1924.

R. Sc. Sup. Politecnica. 1600 students. Provision for specializing in Civil, Industrial,(Chem. or Electro-mech.), and Naval Engineering.

R. Sc. Sup. di Med. Vet. 700 students.

R. Istituto Orientale. Sections: Languages; Colonial Culture; Experimental Station of Hygiene and Colonial Biology.

PADOVA (Padua)

R. Università. *Faculties*: Law, 450 students; Med., 750; Science, 350; Philos. and Letters, 200. School of Pharmacy, 230.

Annexed to the Univ. is an Engineering School (2750 students), with provision for specialization in Hydraulics (4 Special Laboratories), Drainage, Chemical E., Electrical E.

The courses (Nov.–June) in Italian and Romance Literatures, History of Italian Law, Polit. Econ., Statistics, etc., are arranged so that each term's work is a self-contained unit and they can be taken with profit for a single year. Facilities for research in History of Fine Arts, Slavonic Langs. and Lit., Hydraulics. Exemption from fees allowed to students obtaining high percentage of marks. A *Mensa Universitaria* provides good meals at low prices for Profs. and students.

PALERMO

R. UNIVERSITÀ. Number of teachers, 90 ; students in Law, 560 ; Med., 750 ; Science, 460 ; Philos. and Letters, 300 ; School of Pharmacy, 120. Correspondent for advanced study and research : Prof. Anna Benedetti, Head of the Department of English Studies. There is a State Engineering School with 36 teachers and 500 students. There are also State Institutes of Fine Arts and Music, Royal High School for Commercial and Colonial training, and a Royal College for girls (foreign as well as Italian).

PAVIA

R. UNIVERSITÀ. Number of students in Law, 450 ; Med., 500 ; Science, 200 ; Philos. and Letters, 100. Schools of Pharmacy and Indust. Chem.

11th centenary celebrations, May 1925.

PERUGIA

LIBERA UNIVERSITÀ. Number of students in Law, 100 ; Med., 100 ; Vet. Med., 125 ; Phm., 50 ; Obstet., 10.

Vacation courses in History, Music, and Literature, and (for foreign students) the Italian language were held in Aug.–Sept. 1924.

PISA

R. UNIVERSITÀ. Number of students in Law, 250 ; Med., 350 ; Science, 400 ; Philos. and Letters, 150 ; in Engineering School, 150 ; Agric., 140 ; Vet. Med., 100 ; Pharm., 120 ; Obst., 25. Notable Institute of Experimental Physics and Meteorology. Connected with the Univ. is a Higher Normal School for Teachers for Secondary Schools.

ROMA

R. UNIVERSITÀ. *Rettore* : Dr. F. Severi. Presidents of Faculties : Philos. and Letters (with School for Teachers, Schools of Archæology and of Oriental Studies, advanced courses in Art, Philology, and Pedagogy)—Dr. N. Festa ; Mathematics, Natural and Physical Science

(with School for Teachers and special course of Sciences as applied to Agri.)—Dr. G. Fano; Jurisprudence (with Applied Criminology)—Dr. A. Salandra; Medicine and Surgery (with Pharmacy)—Dr. E. Pestalozza.

A school of political science has been instituted at the Univ. The normal course is 4 years, and advanced " refresher " courses will also be held for Government officials.

Summer School for American students, in connexion with the Univ., at Palazzo Salviati, X. Corso Umberto, 271. Italian language (daily lessons), and Literature, Art, Archæology, History (19th century), Economic and Social Development.

A *Course for Foreign Students* in Italian History, Literature, Art, Music, and Archæology was arranged by the Istituto Universitario, April 22–May 22, 1924.

OTHER STATE INSTITUTIONS. School of Engineering (Director, Prof. A. Ciappi); three Commercial Schools; Scuola Magistero Feminile (High School for women preparing for teaching, etc.).

OTHER INSTITUTIONS CONFERRING DEGREES: Collegio Romano (Pontificia Università Gregoriana): Philos., Theol., and Canon Law; Collegio Urbano di Propaganda Fide: Philos., Theol.; Collegio Pontificio Internazionale Angelico: Philos., Theol., Canon Law; Collegio di S. Anselmo: Philos., Theol., Canon Law (for Benedictines only); Pontificio Seminario Romano di S. Apollinare: Canon Law; Pontificio Seminario Romano Maggiore: Philos., Theol.

A chair of Latin Literature at the Gregorian Univ. was founded by the Pope in 1924. The Prof. gives a 2 years' course of lectures (open to laymen) leading to a Diploma.

OTHER INSTITUTIONS OF HIGHER LEARNING: Istituto Biblico, with which is now joined the Istituto Orientale for Oriental Studies; Collegio dei Nobili Ecclesiastici; Scuola Sup. di Musica Sacra; and numerous national and other colleges for training ecclesiastics.

Many FOREIGN SCHOOLS of Art, Archæology, etc., are maintained at Rome. Among these are:

(1) The British School, Valle Giulia, Rome (51). Director, T. Ashby, D Litt., F.S.A., Hon. A.R.I.B.A.; Asst. Director, Mrs. S. Arthur Strong, LL.D., D.Litt., F.S.A. Constituted under Royal Charter. *Faculties*: (*a*) Archæology, History, and Letters; (*b*) Architecture; (*c*) Painting; (*d*) Sculpture; (*e*) Engraving. Open to holders of Scholarships. See Appendix XXIV. (viii.).

(2) The British Academy of Fine Arts, Via Margutta, 53 B. Open to all British artists. Director, Prof. A. Sciortino.

SIENA

R. UNIVERSITÀ. Number of students in Law, 200; Med., 150; Phm., 75; Obstet., 10.

Vacation course for foreigners in Italian language and literature was held Aug. 1 to Sept. 15, 1924.

TORINO (TURIN)

REGIA UNIVERSITÀ. *Rettore*: Pochettino. *Faculties*: Law, Pre side—L. Einaudi; Medicine—P. Giacosa; Philos. and Letters—L. Valmaggi; Science—C. Somigliana. Number of students in the several faculties, 675, 550, 200, 375; School of Pharmacy, Preside—O. Mattirolo. Numerous Institutes and special schools; those attached to the Faculty of Med., 22 in number, include the Laboratory and Museum of Legal Med. and Anthropology, founded by Lombroso in 1876.

The courses are annual from Oct. 15 to June 15. Of special interest to British students is the course of Comparative (English and Italian) Law, of Prof. M. Sarfatti; peculiar facilities are available in the Univ. Library for research in this subject.

"La lega Italo-britannica" (Pres. avv. Armissoglio, 18 Piazza Statuto, Torino), in correspondence with the British-Italian League of London, is prepared to answer inquiries by British students and help them in finding lodgings, etc.

Correspondents for advanced study and research: Law—Prof. Sarfatti; Medical and other Sciences—Prof. Giacosa (Mat. med. and Pharmacology); Philos. and Letters—Prof. Olivero (Engl. Lit.).

Among other Institutions for Higher Education in Turin are: R. POLITECNICO. Director—Colonnetti; number of students about 2000; complete 5 yrs.' courses in Civil and Indust. Engineering, Archit., Electrotechnics, Electrochemistry, and Industrial Art; R. SCUOLA SUP. DI MED. VET.; R. ISTITUTO SUP. DI ST. COMMERCIALI (400 students); R. ACCADEMIA ALBERTINA (Painting, Sculpt, Archit.).

VENEZIA

R. ACCADEMIA DI BELLE ARTI E SCUOLA SUP. ARCHITETTURA. 21 Profs. of Archit., Sculpt., Painting, Geom., etc. Number of students (1923–24), 93.

R. ISTITUTO SUP. DI SCIENZE ECON. E COMMERCIALE. Confers a Doctorate. About 35 Profs. Courses include Civ. and Internat Law and Procedure, Arabic and Slave as well as other Modern Langs., and usual subjects taught in Comml. schools. Number of students, 700.

Vacation courses for foreign students were provided by this Institute in 1924, Sept. 1-30, in Italian Lang. and Lit., Venetian Art and History, Italy of to-day, and History of Medicine and of Music.

LATVIA

The State Univ. of Latvia, Riga (*Rector*: Prof. J. Rubert), founded in 1919, has faculties of Archit., Engin., Mech., Chem. (including Pharmacy), Agric. (including Forestry), Med. (including Dent.), Vet.-med., Maths. and Nat. Sc., Law and Econ., Philol. and Philos., Theol. Number of students, Jan. 1924, 5999. There is an enhanced scale of fees for foreigners. English is one of the first foreign languages to be

taught in the schools. Besides the Univ., there are in Riga academies of Art and Music.

LITHUANIA

The UNIVERSITY OF LITHUANIA, KAUNAS (KOVNO) was opened in Feb. 1922, with faculties of theology and philosophy, humanities, law, mathematics and natural sciences, medicine and technical science (engineering, chemical technology, architecture, etc.). It has 64 professors, 43 docents, and 63 members of the junior teaching staff. Number of students: Theol. and Philos., 198; Arts, 233; Law, 586; Science, 163; Med., 436; Technics, 179.

NORWAY

The only Univ. is Det Kongelige Frederiks Universitet at Oslo.

Other scientific institutions in Norway are: At OSLO: The Theological College (Menighetsfakultetet). At AAS: The Agricultural College (Norges Landbrukshøiskole). At BERGEN: The Geo-physical Institute, Bergens Museum. Courses in Oceanography are given at Bergen. At DRØBAK: Biological Institute (Biologisk Stasjon). At TRONDHJEM: Technical High School (Norges Tekniske Høiskole).

Students Associations to which foreigners are admitted exist at Oslo, Trondhjem, and Aas. Concerning admission to them and conditions of study in Norway application may be made to Studie-Oplysningskontoret, Universitetet, Oslo.

Correspondent for advanced study and research: Dr. A. Trampe Bodtker, Prof. of English at the Univ.

There are no vacation courses for foreign students, but the recently founded Institute of Comparative Culture Research has arranged a programme of lectures to be given in the autumn by eminent English, French, and German scholars.

OSLO

Rector: Prof. Dr. Fredrick Stang. Number of students: Theol., 159; Law, 900; Med., 793; Letters, 627; Science, 307; Total, 3011.

ADMISSION AS AN UNDERGRADUATE. The Collegium (Rector and Deans of Faculties) can admit a foreigner who has passed an examn. corresponding to the "Artium" (the school final examn. for Norse students), which entitles him to admission into the Univs. of his own country, provided that he produces good references as to character.

COST OF BOARD AND LODGING, 200 to 250 kroner a month.

POLAND

[The Bureau is indebted to the courtesy of the Polish Legation for the following article.]

The rules relating to Polish Universities were laid down in the law of July 13, 1920. Students, whether Polish or foreign, are ordinarily admitted on a certificate of maturity received in any of the Government schools for general education or any other certificate considered by the Ministry of Education to be equivalent. The course for a degree covers 4 years, except for a medical degree, for which it is 16 terms (trimestres) The degrees are (1) in Univs—magister and doctor; (2) in Politechnical schools—engineer and doctor. Fees for the courses are nominal. In addition there are payments for the use of laboratories, libraries, etc. Below is a list of all the Univs. of Poland.

UNIVERSITY OF CRACOW, founded in 1364, reorganized in 1400, and again in 1783. Number of students: Theol., 123; Law and Administration, 1414; Med., 712; Philos., 2853; Agric., 167; Department of Pharmacy, 1201; Total, 5389, of whom 1213 are women. Affiliated to the Univ. is a School of Polit. Sc. Univ. Library founded in 1400. Correspondent for advanced study and research: R. Dyboski, Prof. of English, 24, I., Kochanowskiego.

UNIVERSITY OF LWÓW (Lemberg), founded 1661, reorganized 1816. Sections: Theol., Law and Polit. Sc., Philos., Med., with Pharm. subsection. About 5000 students. Prof. of English, Dr. W. H. Tarnawski.

UNIVERSITY OF WARSAW, founded in 1816, reorganized in 1915. Sections: Theol. (Cath. and Prot.), Law and Polit. Sc., Philos., Med. with Pharm. and Vet. subsections. 9500 students, including 3000 women, Prof. of English, Dr. A. Tretiak.

UNIVERSITY OF WILNO (Vilna), founded 1576, renewed 1919. Sections: Theol., Law and Social Sc., Classics, Maths. and Natural Sc., Fine Arts, Med., with Pharm. subsection. 1700 students.

UNIVERSITY OF POZNAN (Posen), founded in 1919. Sections: Theol., Law, Econ. and Polit. Sc., Philos., Med., with Pharm. subsection, Agric. and Forestry, Technical. 3300 students. Prof. of English, Bernard Massey, M.A. (British Vice-Consul).

UNIVERSITY OF LUBLIN, founded by a Polish financier, C. Jaroszynski, immediately after the war. Sections: Theol., Law, Econ., Philos. 1100 students. A private institution.

Other institutions of University grade:

At WARSAW: POLYTECHNICAL COLLEGE, with sections of Constructive engineering, Water engineering, Construction of machinery, Electrotechnics, Chemistry, Architecture; College of Agriculture and Forestry; Academies of Commerce, of Vet. Sc., of Music, and of Fine Arts; Teachers' College; "Free" University.

At LWÓW: POLYTECHNIC COLLEGE, founded in 1877, with sections of Communications (roads, waterways, etc.), Architecture (construction,

arts), Mechanics (machinery, electro-technics), Chemistry, Agric. and Forestry, Military; Academies of Agric. (at Dublany), Vet. Sc., and "Export" (Commerce).

At CRACOW: MINING ACADEMY; Academies of Fine Arts and Music.

At POSNAN: Veterinary Academy. At BROMBERG and DUBLANY: Agricultural Schools.

PORTUGAL

The ancient University of COIMBRA, founded in the thirteenth century, has faculties of Letters, Law, Medicine, Sciences, and Pharmacy, and a Higher Normal School.

OPORTO has a University (reconstructed in 1911) with faculties of Sciences, Letters, Medicine, Pharmacy, and Engineering, Technical High Schools (Instituto Superior) of Industrial Engineering and of Commerce, and a School of Fine Art.

LISBON. The University, founded in 1911, has the same faculties as Coimbra. Lisbon has also: a Technical High School which provides a 3-years' general course followed by 3-years' specialized courses in each of the following branches of Engineering—Mining, Civil, Mechanical, Electro-technic, and Chemico-Industrial; Schools of Agronomy, of Commerce, of Colonial Administration, of Tropical Medicine, of Veterinary Medicine, and of Fine Arts; Institutes of Bacteriology and Parasitology, and Ophthalmology; a Marine Biological Station; and Seismological and other Observatories.

ROUMANIA

Universities at JASSY, BUCHAREST, CLUJ, and CERNĂUTI. Among subjects in which there are special facilities for advanced study and research are Experimental Pedagogy (Cluj), Romance Philology (Bucharest and Jassy), Byzantinology (Bucharest), Central European and Balkanic History (Bucharest—Institute of S. European and Balkanic Studies). *Summer courses*, to which foreign students are admitted, are provided at Valeni de Munte near Ploesti (centre of the Petrol industry—one hour by rail from Bucharest). Most of the profs. are able to converse in French and German, and the Roumanian language presents no great difficulties to English students acquainted with Latin.

The First International Congress on Byzantine Studies was held at Bucharest, April 14-20, 1924.

RUSSIA

A report was prepared in Oct. 1922 on "Life in the Universities of Russia to-day," with special reference to the position of Professors

and other teachers, by Harold Gibson, Chief Administrator of International University Relief in Russia. Particulars regarding some of the Universities can be obtained from the Russian Academic Group (Hon. President, Sir Paul Vinogradoff; Chairman, Prof. V. Korenchevsky), 27 Cromwell Rd., London, S.W.7.

KINGDOM OF THE SERBS, CROATS, AND SLOVENES

UNIVERSITY OF BELGRADE. *Rektor*: P. Popović. *Faculties*: Arts and Sc., Law, Technology, Med. Agric., Theol. Over 100 profs. and 7000 undergraduates. The Faculties of Med., Agr., and Theol. are at present small.

UNIV. OF ZAGREB (Agram), with over 100 profs. and 3000 students. Faculties of Theol., of Law, of Philos., Sciences and Letters, and of Agronomy and Forest Economy.

ZAGREB POLYTECHNIC; ZAGREB TRAINING COLLEGE for Teachers; ZAGREB SCHOOL OF VET. MED.

UNIV. OF LJUBLJANA (Laibach), with 70 profs. and 800 students.

Faculty of Law in SUBOTICA, 10 profs. and 100 students.

Faculty of Arts in SKOPLJE, 10 profs. and 40 students.

SPAIN

There are 11 official universities entirely supported by the Government and entitled to grant degrees. Their organization is uniform. The ordinary qualification for admission is the "Bachiller"-ship (marking the completion of a course of secondary education; similar to French Baccalauréat) or its equivalent. The official course for the Doctorate covers one year.

There are several other institutions which prepare students for the official Universities' Examinations, among them the Real Colegio de Maria Cristina UNIVERSIDAD-ESCORIAL (Law, Philos. and Letters, Engineering, Arts; 380 students) and the Universidad Libre DEUSTO (both residential).

The following statistics regarding the official Univs. relate to the year 1921–22. The faculties, Law, Medicine, Philosophy (including in some cases History, Literature, and Philos., in others only one of these, and in others a preparatory course for students of Law), Science, Pharmacy are indicated by the letters L, M, P, S, Pm. The figures represent first—the number of professors, second—the number of internal students, third—the number of external students:

MADRID. L 19, 402, 1586; M 26, 1945, 1343; P 29, 302, 541; S 27, 900, 144; Pm 10, 530, 502.

BARCELONA. L 12, 131, 378; M 16, 787, 494; P 15, 92, 178; S 16, 445, 196; Pm 7, 311, 113.

GRANADA. L 12, 73, 402 ; M 16, 321, 113 ; P 7, 61, 171 ; S 6, 186, 79 ; Pm 7, 184, 170.

MURCIA. L 8, 32, 556 ; P 3, 22, 94 ; S 3, 86, 154.

OVIEDO. L 8, 86, 383 ; P 3, 12, 128 ; S 7, 46, 95.

SALAMANCA. L 12, 30, 196 ; M 9, 258, 212 ; P 9, 31, 49 ; S 8, 98, 73.

SANTIAGO. L 8, 98, 115 ; M 11, 324, 73 ; P 3, 38, 45 ; S 4, 151, 69 ; Pm 5, 98, 86.

SEVILLA AND CADIZ. L 12, 58, 211 ; M 25, 520, 317 ; P 9, 64, 63 ; S 7, 157, 51.

VALENCIA. L 13, 136, 50 ; M 16, 533, 261 ; P 9, 79, 40 ; S 6, 191, 64.

VALLADOLID. L 13, 78, 392 ; M 11, 618, 200 ; P 6, 55, 164 ; S 3, 156, 81.

ZARAGOZA. L 11, 81, 117 ; M 13, 480, 323 ; P 9, 70, 69 ; S 14, 251, 64.

Other Institutions of University grade :

At MADRID : Schools of Engineering (Agronomic, Civil, Forest, Industrial, and Mining), of Veterinary Science, of Commerce, of Fine Art, of Architecture, and of Music.

At BARCELONA and BILBAO : Schools of Commerce, of Industrial Engineering and (Barcelona) Architecture. At VALENCIA Schools of Fine Art and Music. At CANARIAS a Faculty of Law. At CORDOBA, LEON, and ZARAGOZA, Veterinary Schools.

COURSES FOR FOREIGN STUDENTS in Madrid are held annually by the Centro de Estudios Históricos (Almagro, 26), an institution created by the Junta para Ampliación de Estudios e Investigaciones Cientificas. In 1925 the *Summer* course will extend over about 4 weeks in July and Aug., the lectures being devoted to Spanish Language, Phonetics, and Literature, Spanish Art, History, Geography and Spanish cultural life. Special courses in contemporary literature, Spanish music, commercial Spanish, and intonation. Registration for entire course, 125 pesetas ; special courses, 30 pesetas each. Board and lodging in Hostel (the Residencia de Estudiantes, built by the Junta for students and equipped with bathrooms, library, playing-fields, etc.) costs from 14 to 20 pesetas a day. A number of Spanish instructors and students live in the Hostel. *Winter* courses of ten weeks are offered in Oct.-Dec. and Jan.-March.

The Junta para ampliación de Estudios, created in 1907 by the Government and supported by annual grants, in addition to giving information and help to foreign students in Spain assists Spanish Govt. scholarship holders and other students in foreign countries, and is in charge of a large group of laboratories for research and advanced studies and of educational and social institutions, such as the Halls of

Residence for students (125 men and 130 women), and a model elementary and secondary school. It also publishes works on all branches of science, history, literature, and art, and promotes the interchange of professors.

The "Anglo-Spanish Society of Spanish-speaking Countries and the British Empire," 5 Cavendish Square, London, W.1, aims at promoting, among other objects, the foundation of Travelling Scholarships, interchange of teachers and students, facilities for British students in Spanish-speaking countries, etc. The Honorary Secretaries are prepared to answer inquiries by British students proposing to visit such countries.

The *Howard Scholarships*, consisting of free board and lodging at the Residencia de Estudiantes of Madrid and 250 pesetas to defray matriculation fees, are awarded (2 in 1925 and 2 in 1926) by the British Ambassador to Spain on the nomination of the Vice-Chancellors of Oxford and Cambridge, respectively; and in connexion with the *Instituto de Valencia de Don Juan* a studentship (De Osma) is awarded annually to a member of the Univ. of Oxford (1924–25: J. P. Morris of Queen's Coll.).

SWEDEN

[The Bureau is indebted to the courtesy of the Swedish Legation and the Secretary of the Chancellor of the Universities of Sweden for the following article.]

The State Universities at Uppsala and Lund, a Medical high school (faculty)—Karolinska medico kirurgiska institutet—at Stockholm, and the Stockholm and Göteborg "High Schools," founded on private donations, are all under the supervision of the *Chancellor of the Universities of Sweden* (C. Swartz, formerly prime minister), whose official address is Universitetskanslersexpeditionen at Stockholm. Secy.: O. Croneborg.

There are also at Stockholm High Schools of Technology, of Forestry, and of Pharmacy, a College for Commercial studies—Handelshogskolan—a Veterinary College, Colleges for Music (at the Kungl. Musikkonservatorium), and for Fine Arts (at the Kungl. Konsthögskolan), and a Central Institute for Gymnastics (Gymnastiska Centralinstitutet); at Ultuna and at Alnarp are Agricultural Colleges. Each of these institutions is governed by a special Board of Directors.

For ADMISSION to one of the State Univs a foreigner should apply to a special Board of the Univ.—Consistorium Minus. If he is not already matriculated in Sweden he must prove that he is a student at a foreign State Univ., or obtain a Royal dispensation, application for which should be addressed to the King (Till Konungen) at the Ministry of Education (Ecklesiastik departementet) at Stockholm. For admission to the Karolinska institutet a foreigner should likewise apply to the same ministry: permission is sometimes granted if an examn. equivalent to the Swedish matriculation examn. has been passed and if the places are not all required for Swedish students (which at present

is the case), but usually a foreign student is required to undergo a supplementary examn. for admission.

Application for matriculation of a student at Stockholms-högskola is made to a special committee (Rektorsnämnden) appointed by the Senate (Lärarrådet). A certificate from one of the profs. to the effect that the student is sufficiently advanced in his studies to follow the courses with profit is required. A foreigner who has passed an examn. which entitles him to admission to a Univ. of his own country will always obtain such a certif. Good personal references must also be given. At Goteborgs-högskola students who have not passed the Swedish matricn. examn. may be matriculated on application to the Board—Styrelsen.

EXAMINATIONS. A foreigner wishing to pass an examn. at any of these institutions should apply for Royal permission as described above. Examns. passed elsewhere are taken into consideration.

FEES for matricn. at Uppsala, 12 kr.; Lund, 12.25 kr.; Karolinska inst., 0.25; Stockholms-högskola, 25 (science, 50); Göteborgs, 10. For examn ordinarily 15 kr. for each complete examn.; at Stockholms-högskola, 25. Fees per term only at Stockholms-högskola: Science, 100 kr.; Laws, 55; Letters, 63. Various fees for many courses and lectures, and subscriptions to students' Assocns.

STUDY AND RESEARCH WITHOUT MATRICULATION OR EXAMINATION. Public lectures are given at the Univs. and High Schools and permission to follow courses is ordinarily obtainable. A foreign student can ordinarily obtain permission for special study or scientific research at the Karolinska inst. if the places are not all required for Swedish students.

VACATION COURSES are given in turn at Uppsala, Lund, Stockholm, and Gothenburg (in 1925 at Stockholm).

There are four FACULTIES at each of the Univs. of Uppsala and Lund—Theology, Law, Medicine, and Philosophy; the last comprising (1) Letters, including History and Languages, etc., and (2) Science—Maths. and Natural Science. The office of Dean is held in turn by the professors for one year.

UPPSALA

Founded in 1477 under a Papal Bull. *Rector Magnificus*: Prof. L. Stavenow. Library (Carolina rediviva) · 600,000 vols., 275,000 dissertations, 16,000 MSS. Number of students: Theol., 212; Laws, 638; Med., 552; Philos., 1335. Prof. of English: Dr. R. E. Zachrisson; Lector in English: H. Orton, M.A., B.Litt.

LUND

Founded 1666, opened 1668. *Rector Magnificus*: Prof. J. C. W. Thyrén. Library: 350,000 vols., 175,000 pamphlets (dissertations). Number of students: Theol., 153; Law, 424; Med., 328; Philos., 815

(Letters, 611; Nat. Sc., 204); Total, 1720, including 196 women. Correspondent for advanced study and research: Dr. B. O. E. Ekwall, Prof. of English. Lector in English: H. Caudwell, B.A.

STOCKHOLM

KAROLINSKA MEDIKO-KIRURGISKA INSTITUTET. A High School of the Swedish State, founded 1810. *Rector*: Prof. Hj. Forssner. Inspector of Dental School (Tandläkarinstitutet, founded 1898): Prof. J. Åkerman. Number of students: Med., 916; Dent., 269.

STOCKHOLMS HOGSKOLA, active since 1878, includes faculties of Science, Law, and Letters (Polit. Econ., Polit. Sc., History of Art, of Literature, of Religion, History, Geog., Archæology, and Northern Languages). *Rector*: Prof. I. Bendixson. Number of students: Laws, 632; Science, 232; Letters, 223. Correspondent for higher study and research: G. Bagge, Prof. of Polit. Econ.

GÖTEBORG

GÖTEBORGS-HÖGSKOLA began its work in 1891. It has a complete faculty of Letters. *Rector*: Prof. O. Sylwan. 303 students. Special Institutions for Fine Arts, Geography, Oceanography, and Psychology and Education.

SWITZERLAND

[For the following article the Bureau is indebted to the courtesy of the Swiss Legation and the Office Central, Universitaire Suisse, rue de l'Hôpital 30, Berne. For further information application may be made to the Office Central.]

In the Cantons of the Swiss Confederation, as in the United States of America, Higher Education is legislated for by the constituent states (in the Swiss Confederation, the Cantons) severally, and the only Institution of University grade controlled by the Confederation is the "École polytechnique fédérale" at Zürich. At ST GALLEN is a *Handels-Hochschule*, founded in 1899, which receives grants both from the Confederation and from the Canton. It offers four-semester courses, including Economics, Commerce, Law, Finance, Technology, etc.

THE CANTONAL UNIVERSITIES

Although the Cantons are free to organize their Univs. as they please, untrammelled by federal laws, there exists among them an understanding on the most important points so that it is possible to generalize to some extent in describing them. It should nevertheless be borne in mind that such generalizations imply "no uniform prescription but merely coincidence of particular dispositions." For

exact information it is necessary to refer to the regulations of the particular Univ. in question.

FACULTIES. Theology, Law and Political Sciences, Medicine, Letters (philos., languages, history), Sciences (Maths. and Nat. Sc.). Berne and Zurich have also a faculty of Vet Med.; Lausanne an Engineering School. Fribourg and Neuchâtel have no Med. faculty.

The COURSES are organized by *semesters*. The winter semester is from the middle of Oct to the middle of March, the summer from the middle of April to the end of July. Immatriculation may be at the beginning of either semester and students choose freely the courses they wish to follow, the study plans published by the several faculties being merely intended for the guidance of those who wish to adopt a normal curriculum.

DEGREES obtainable are the *Licence* and the Doctorate. The former is not ordinarily conferred in the German-speaking Univs. Almost all the faculties confer the Doctorate and there are numerous special examns. which may be taken with a view to it, each carrying its special Diploma. Candidates must prove that they have studied in a Univ. during a certain number of semesters, ordinarily 6, of which at least 2 have been passed in the Univ. which is asked to confer the degree. Graduation fees are from 300 to 400 fr., and, in addition, candidates are required to supply within a certain time after the examn. printed copies (generally 200) of their dissertation.

IMMATRICULATION. Regular students (minimum age, 18) must present (*a*) A certificat de maturité of a recognized Swiss gymnasium or a similar foreign certificate entitling to admission to a foreign Univ. (Entrance examns. are arranged for students whose certificates are insufficient); (*b*) certificate of character; (*c*) passport (or equivalent document). The admission fee varies from 10 to 30 fr. and there are sundry other initial charges, *e.g.* at Berne: library 5 fr., Sick Fund 10 fr., General Funds 7 fr.

Certain courses are open to unmatriculated persons as "auditors," and admission to others may be obtained from the professors concerned, who in some cases require evidence of suitable preparation. The fee for inscription as "auditor" is nominal (*e.g.* 1 fr.), but the student is required to pay instruction fees.

INSTRUCTION FEES. The system generally adopted is to levy a tax for the semester according to the number of hours per week assigned to the courses taken. The rate per hour is 5 fr. or, at Geneva, Lausanne, and Zurich 6 fr. A student who, *e.g.* at Bâle, takes an inscription for 20 hours a week would pay 100 fr. At Fribourg each student pays a fixed sum, whatever the number of hours of his courses—winter 60 fr., summer 50 fr.

Special taxes (from about 10 to 50 fr.) are levied for the use of laboratories, clinics, etc. Sundry subscriptions, as for Sick Fund, General Fund, Library, etc., amount to from 5 to 25 fr.

SPECIAL INSTITUTIONS AND FACILITIES. *Sick Fund.* Students are required to insure against sickness expenses (hospital, or doctor and

chemist). *Reading Rooms* are organized and administered, for the most part, by the students. *Museums, Libraries*, and other collections in each University town are open to students *Theatres* generally admit students at reduced rates. *Scholarships* are comparatively unimportant and are not open to foreigners, but *Prizes* open alike to Swiss and foreign students are offered in most faculties. The first prizes range from 500 to 1000 fr.

LODGING. Information obtainable from the Secretariat of the Univ.; at Bâle and Zurich from the Comités d'Étudiants.

STUDENT ORGANIZATIONS. The Comités at Bâle and Zurich manage the reading-rooms, procure lodgings, purchase books, organize conferences, cheap meals and clubs, encourage sports and answer general inquiries. The general body of students constitute the "Fédération Suisse des Étudiants." In each Univ. exist numerous student societies, characterized by the political opinions, social connexions, or religion of their members. Notable among them are those devoted to sport.

VACATION COURSES FOR FOREIGN STUDENTS were provided in 1924 at Geneva, Lausanne, and Neuchâtel. Such courses are also offered from time to time at Bâle, Berne, and Fribourg.

Geneva vacation courses were from July 10 to September 20, arranged in self-contained units of various duration. Full information obtainable from Comité de Patronage at the Univ. Booklet, *Geneva, an Educational Centre*, issued by the Assocn. of the Interests of Geneva, 3 place des Bergues; also an excellent *Guide de l'Étudiant à Genève*, by A. Roussy, 1921–22. Board and Lodging in *pensions*, 175 to 300 fr. a month.

Of special interest to foreigners are the Linnæan Gardens and Laboratory of Alpine Biology at Bourg-St-Pierre (Valais), open July 15 to Sept. 15, regarding which details may be obtained from Prof. R. Chodat at the Univ.; courses in Pedagogy at the Institut J. J. Rousseau. At Geneva there are also exceptional facilities for research in Greek Papyrology and Greco-Roman Institutions; the Calvinistic Reformation (special library of the Soc. du Musée hist. de la Réforme); Industrial Economics. There are numerous Medical and Dental Laboratories, Clinics and Institutes. Many valuable prizes are open to foreign as well as to Swiss students, in Literature, History, Science and Medicine.

An INTERNATIONAL ACADEMY OF COMPARATIVE LAW has been set up at Geneva under the auspices of the League of Nations with 4 groups: Latin, Anglo-American, Central and North Europe, Oriental and Colonial.

Lausanne vacation courses were from July 17 to Aug. 27, arranged in three periods of a fortnight each. Courses of lectures on recent and contemporary French literature. Practical and Phonetic classes. Excursions in the mountains every Saturday. Booklet containing full information sent on application to Secrétariat de l'Université, Lausanne.

The following list gives (p) the number of professors, (s) the approx. number of regular students, (l) the language medium of instruction,

and the total number of matriculated students (including the women students, shown separately within brackets) in the winter session 1923–24 in Theology (Protestant and Catholic), Law, Medicine, Dentistry, Letters, Sciences, indicated by the symbols : Th.Pr., Th.C., L, M, D, Lett., Sc.

BÂLE : p 150, s 1100, 1 German, Th.Pr. 76 (1), L 104 (11), M 291 (28), Lett. 257 (40), Sc. 1005 (104). Recently exchanges of professors were arranged with Cambridge and Manchester.

BERNE : p 190, s 1500, 1 German, Th.Pr. 47 (3), Th.C. 9, L 536 (19), M 379 (35), Lett. 222 (65), Sc. 246 (27), Vet. Med. 78

FRIBOURG : p 70, s 600, 1 French and German, Th.C. 187, L 137 (2), Lett. 71 (20), Sc. 129 (4).

GENEVA : p 160, s 900, 1 French, Th.Pr. 27 (2), L 81 (3), M 167 (29), D 85 (6), Lett. 96 (53), Sc. 163 (27), Econ. and Social Sciences 120 (40).

LAUSANNE : p 130, s 800, 1 French, Th.Pr. 20, L 74 (4), M 165 (15), Lett. 81 (50), Sc. (including Engineering) 299 (46), Commerce 85 (7).

NEUCHÂTEL : p 60, s 200, 1 French, Th.Pr. 9, L 61 (7), Lett. 49 (19), Sc. 51 (3).

ZÜRICH : p 180, s 1700, 1 German, Th.Pr. 32 (1), L 508 (45), M 432 (78), D 103 (15), Lett. 292 (99), Sc. 215 (29), Vet. Med. 52.

ST. GALLEN : p 20, s 160, 1 German.

L'ÉCOLE POLYTECHNIQUE FÉDERALE, ZÜRICH

Recteur : Prof. A. Rohn. Names of Deans and numbers of students in the several divisions : Architecture—Potterat, 80 ; Civil Engineering —Baeschlin, 260 ; Mechanical and Elec. Engineering—Stodola, 650 ; Industrial Chemistry—Baur, 180 ; Pharmacy—Eder, 70 ; Forestry—Knuchel, 60 ; Agriculture—Düggeli, 140 ; Rural Engineering and Surveying—Diserens, 30 ; Normal school—Weyl and Staudinger, 50. Total number of professors, 144 ; students, 1500, including (1923–24) 225 foreigners, of whom 41 were Dutch and 27 French.

Instruction is given both in German and in French.

The courses are organized by the academic year, and admission as a regular student is ordinarily possible only at the commencement of the year (Oct.). The winter semester is from the middle of Oct. to the middle of March, the summer from the middle of April to the middle of July. The programme of studies is obligatory for all regular students. The various Schools hold preparatory and final diploma examns., and the Doctorate is as a rule conferred only on those who, having already received diplomas, present a thesis and undergo an oral examn.

Immatriculation conditions are stricter than in the Univs. British

and most other foreign students are required to undergo an Entrance examination, except for attendance as "auditeurs" at the cours libre in philosophy, political science, mathematics, and natural and technical sciences. Inscription should take place on or before Sept. 10, fee 10 fr. A limited number of "Auditeurs" are admitted.

Instruction fees, 300 fr. p.a. Other general fees come to about 40 fr. p.a.

Special Institutions and facilities—as in the Univs.; students are organized in an Assocn. des Étudiants (E.P.F.).

Of special interest to British and other foreign students are the courses in *Hydro-Electrical Engineering* (Wyssling and Prasil) and *Chemical Engineering* (Bosshard and Fierz: Full course in dyestuffs, intermediaries, explosives, carbohydrates. Winter term—fats, oils, rubber, petroleum, textile chemistry. Laboratories for experimental work daily). Facilities for research in Forestry are also available.

TURKEY

The University of CONSTANTINOPLE or STAMBOUL has 142 professors and 2342 students, as follows: Theology, 17—295; Law, 23—401; Medicine, 52—1079; Letters, 27—340; Sciences, 23—227. *Robert College* (Arts and Sciences, including Commerce, and Engineering) and the *Women's College* are under American auspices.

UNITED STATES OF AMERICA

In the 780 Universities, Colleges, and Professional Schools which submitted returns for 1920–21 to the United States Bureau of Education there were enrolled in that year 618,555 students, of whom rather more than one-third were women. Of these institutions 119 were under public and 661 under private control; 116 were independent professional schools. Of the total number of students 67,649 were in pre-matriculation departments and 23,016 were in graduate schools. Law students numbered 29,011, medical 17,522, dental 11,790, theological 8430, pharmacy, 8213, engineering 56,649. For full information about American Universities students in this country are advised to apply to the American University Union in Europe, British Division, 50 Russell Sq.; on the continent of Europe to the Paris office of the Union, 17 Boulevard St. Germain. In Rome there is an American Academy at Porta San Pancrazio 29. In Belgium the Fondation Universitaire, which administers numerous scholarships tenable in American institutions of higher learning, has its office at 74 rue de Namur, Bruxelles. In Prague there is an American Institute. In America reference may be made to the Secretary to the Board of Trustees of the American University Union, Prof. J. W. Cunliffe, Columbia Univ., New York City, to the American Council on Education, 26 Jackson Place, Washington, or to the Institute

of International Education, 522 Fifth Avenue, New York. This Institute published, in 1924, a *Guidebook for Foreign Students in the U.S.A.* The Bureau of Education of the United States Department of the Interior published in 1921 a Bulletin (No. 39 of 1920) on "Facilities for Foreign Students in American Colleges and Universities." This is obtainable from the Government Printing Office, Washington, D.C., at 15 cents a copy. A recent Australian view of American Univ. life and organization is given in *The American University* by E. R. Holme of the Univ. of Sydney (Angus and Robertson, Ltd., Sydney, 1920, 7s. 6d.). A description of American Univs. from the point of view of a French scientist is given in *Universities and Scientific Life in the U.S.A.*, by Prof. M. Caullery (Oxford Univ. Press, 1922, 10s. 6d.).

"International House," Riverside Drive, New York, opened Sept. 1924, is a residential club for over 500 foreign and American students. The requisite funds were provided by J. D. Rockefeller, Junior, who also founded the "International Education Board" (chartered Jan. 16, 1923). This Board has established the International Institute of Teachers College (v. *infra*, Columbia Univ.).

The British Information Library, 44 Whitehall Street, New York, established Dec. 1919, for the convenience of Americans desiring information on British current affairs, is a branch of the News Department of the Foreign Office, from which it is well supplied with official documents and other publications. It has become the recognized centre for information on British Empire affairs. It is in close touch with the Dominion Trade Commissioners in New York, and can give information on Dominion affairs. Wherever possible official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly directly from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is entirely free to the public, and information is gladly given to all enquirers. The Bureau of Clinical Information, 17 West 43rd St., New York, offers a welcome to British doctors visiting that city.

American Professors on leave of absence sometimes receive grants for expenses of foreign travel from the Institute of International Education, and report to the Institute on their observations while teaching in foreign Institutions. Columbia, Pennsylvania, Johns Hopkins, Cornell, Harvard, Mass. Inst. Tech., and Yale co-operate in arranging exchanges with France of Professors of Applied Science.

For information as to American University and College Scholarships for British and other foreign students, and research in the U.S.A. see Appendix XXIV. (xxii), (xxxi), and (xxxiii).

A British-American Association of Phi Beta Kappa (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address, American University Union, 50 Russell Sq., London, W.C.1.

AMERICAN DEGREES (non-professional). The following notes are

based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction: The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of " credits " (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of M.A. (or M.S.) proceeds to the Graduate School of a University (the professional schools of law, medicine, etc., with few exceptions, admit undergraduates), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph.D. requirements are ordinarily " 3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning."

The Report points out that higher education in the U.S.A. is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities. The Report recommends the admission to candidacy for the State Doctorate of any student holding the M.A. or M.S. degree of an institution belonging to the Assocn. of American Univs. who has specialized in the branch of learning chosen for the work for the doctorate, and proved to the satisfaction of the head of his department and of the Dean of the Graduate School of his Univ. his capacity for research; also candidates for the Ph.D. in one of those institutions who have completed 2 or more years of study for the Ph.D., and proved their capacity for research; also holders of a Ph.D. from one of those institutions. The institutions in question are starred (*) in the list given below. In other cases it is suggested that reference should be made to the Committee, 24-26 Jackson Place, Washington.

Below is given a list of 166 institutions approved by the Association of American Univs. This list has been adopted by most of the Univs. of the U.K. for the purpose of admission of graduates with a view to qualifying for the Ph.D. degree (v. p. 16). They may be classified as:

I. 33 Univs. of complex organization, usually with *graduate schools* and certain professional and technological schools. These are the 26 members of the Assocn., and Boston, New York, and Western Reserve

and the Univs. of Cincinnati, Colorado, Pittsburgh, Texas, and Washington.

II. 15 *Technological Institutions*: Brooklyn Polyt. Inst., California Inst. Tech. (v. Supplementary list), Case School of Applied Science, Clarkson School of Tech., Iowa State College, Lehigh Univ., Mass. Agr. College, Mass. Inst. Tech., Pennsylvania State College, Purdue Univ., Rensselaer Polyt. Inst., Rose Polyt. Inst., State College of Washington, Stevens Inst. Tech., Worcester Polyt. Inst.

III. The remaining 118 *Colleges*: primarily organized with undergraduate curricula leading to the A.B. or B.S., in some cases with strong technological divisions, and occasionally a strong professional school.

Allegheny College, Meadville, Pa.; ‡Amherst College, Amherst, Mass.; †Barnard College, New York, N.Y.; Bates College, Lewiston, Me.; Beloit College, Beloit, Wis.; Boston University, Boston, Mass.; ‡Bowdoin College, Brunswick, Me; ‡Brooklyn Polytechnic Institute, Brooklyn, N.Y.; Brown University, Providence, R.I.; Bryn Mawr College, Bryn Mawr, Pa.; Carleton College, Northfield, Minn.; ‡Case School of Applied Science, Cleveland, Ohio; *Catholic University of America, Washington, D.C.; ‡Central University of Kentucky, Danville, Ky.; Clark College, Worcester, Mass.; ‡Clarkson School of Technology, Potsdam, N.Y.; *Clark University, Worcester, Mass.; Coe College, Cedar Rapids, Iowa; Colby College, Waterville, Me.; ‡Colgate University, Hamilton, N.Y.; ‡ †College of the City of New York, New York, N.Y.; †College of St. Catherine, St. Paul, Minn.; § †College of St. Elizabeth, Convent Station, N.J.; Colorado College, Colorado Springs, Colo.; *Columbia University, New York, N.Y.; Cornell College, Mt. Vernon, Iowa; *Cornell University, Ithaca, N.Y.; Dartmouth College, Hanover, N.H.; De Pauw University, Greencastle, Ind.; Dickinson College, Carlisle, Pa.; Drake University, Des Moines, Iowa; Drury College, Springfield, Mo.; Earlham College, Richmond, Ind.; §Elmira College, Elmira, N.Y.; ‡Fordham University, Fordham, N.Y.; Franklin College, Franklin, Ind.; Goucher College, Baltimore, Md.; Grinnell College, Grinnell, Iowa; ‡Hamilton College, Clinton, N.Y.; *Harvard University, Cambridge, Mass.; ‡Haverford College, Haverford, Pa.; Hobart College, Geneva, N.Y.; *Indiana University, Bloomington, Ind.; Iowa State College, Ames., Iowa; *Johns Hopkins University, Baltimore, Md.; ‡Kenyon College, Gambier, Ohio; Knox College, Galesburg, Ill.; ‡Lafayette College, Easton, Pa.; § †Lake Erie College, Painesville, Ohio; Lake Forest College, Lake Forest, Ill.; Lawrence College, Appleton, Wis.; Lehigh University, South Bethlehem, Pa.; *Leland Stanford Jr. University, Stanford University, Cal.; †Macalester College, St. Paul, Minn.; Marietta College, Marietta, Ohio; †Massachusetts Agricultural College, Amherst, Mass.; Massachusetts Institute of Technology, Boston, Mass.; Miami University, Oxford, Ohio; Middlebury College, Middlebury, Vt.; § †Mills College, Oakland,

* Institutions starred are members of the Association of American Universities.

† Added at the meeting of the Association in November of 1917.

‡ For men only. § For women only.

Cal.; § †Milwaukee-Downer College, Milwaukee, Wis.; Mount Holyoke College, South Hadley, Mass.; †Municipal University of Akron, Akron, Ohio; New York University, New York City; *Northwestern University, Evanston, Ill.; Oberlin College, Oberlin, Ohio; *Ohio State University, Columbus, Ohio; Ohio Wesleyan University, Delaware, Ohio; Pennsylvania State College, State College, Pa.; Pomona College, Claremont, Cal.; *Princeton University, Princeton, N.J.; Purdue University, Lafayette, Ind.; Radcliffe College, Cambridge, Mass.; § †Randolph-Macon Women's College, Lynchburg, Va.; Reed College, Portland, Oregon; ‡Rensselaer Polytechnic Institute, Troy, N.Y.; Ripon College, Ripon, Wis.; § †Rockford College, Rockford, Ill.; ‡Rose Polytechnic Institute, Terre Haute, Ind.; ‡Rutgers College, New Brunswick, N.J.; Smith College, Northampton, Mass.; State College of Washington, Pullman, Wash.; *State University of Iowa, Iowa City, Iowa; ‡Stevens Institute of Technology, Hoboken, N.J.; Swarthmore College, Swarthmore, Pa.; Syracuse University, Syracuse, N.Y.; Trinity College, Durham, N.C.; ‡Trinity College, Hartford, Conn.; †Trinity College, Washington, D.C.; Tufts College, Medford, Mass.; Tulane University, New Orleans, La.; ‡Union University, Schenectady, N.Y.; †University of Alabama, University, Ala.; *University of California, Berkeley, Cal.; *University of Chicago, Chicago, Ill.; University of Cincinnati, Cincinnati, Ohio; University of Colorado, Boulder, Colo.; ‡University of Georgia, Athens, Ga.; *University of Illinois, Urbana, Ill.; *University of Kansas, Lawrence, Kan.; University of Maine, Orono, Me.; *University of Michigan, Ann Arbor, Mich.; *University of Minnesota, Minneapolis, Minn.; *University of Missouri, Columbia, Mo.; *University of Nebraska, Lincoln, Neb.; *University of North Carolina, Chapel Hill, N.C.; University of North Dakota, University, N.D.; †University of Oklahoma, Norman, Okla.; University of Oregon, Eugene, Ore.; *University of Pennsylvania, Philadelphia, Pa.; University of Pittsburgh, Pittsburg, Pa.; University of Rochester, Rochester, N.Y.; University of South Dakota, Vermillion, S.D.; ‡University of the South, Sewanee, Tenn.; University of Tennessee, Knoxville, Tenn.; University of Texas, Austin, Texas; University of Vermont, Burlington, Vt.; ‡ *University of Virginia, Charlottesville, Va.; University of Washington, Seattle, Wash.; †University of West Virginia, Morgantown, W.Va.; *University of Wisconsin, Madison, Wis.; University of Wooster, Ohio; Vanderbilt University, Nashville, Tenn.; §Vassar College, Poughkeepsie, N.Y.; ‡Wabash College, Crawfordsville, Ind.; †Washburn College, Topeka, Kan.; ‡Washington and Jefferson College, Washington, Pa.; ‡ †Washington and Lee University, Lexington, Va.; *Washington University, St. Louis, Mo.; §Wellesley College, Wellesley, Mass.; §Wells College, Aurora, N.Y.; ‡Wesleyan University, Middletown, Conn.; Western Reserve University, Cleveland, Ohio; †Whitman College, Walla Walla, Wash.; ‡William Jewell College,

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‡ For men only. § For women only.

Liberty, Mo.; ‡Williams College, Williamstown, Mass.; ‡Worcester Polytechnic Institute, Worcester, Mass.; *Yale University, New Haven, Conn.

Supplementary list of institutions admitted since Nov. 1917: Agnes Scott College, Decatur, Ga.; Alfred University, Alfred, N.Y.; California Institute of Technology, Pasadena, Cal.; Carthage College, Carthage, Ill.; College of St. Teresa, Winona, Minn.; Davidson College, Davidson, N.C.; Denison University, Granville, Ohio; Hamline University, St. Paul, Minn.; Hunter College, New York, N.Y.; Illinois College, Jacksonville, Ill.; Illinois Woman's College, Jacksonville, Ill.; Morningside College, Sioux City, Iowa; New York State Teachers' College; North-Western College, Naperville, Ill.; Occidental College, Los Angeles, Cal.; Park College, Parkville, Mo.; Sweet Briar College, Sweet Briar, Va.; University of Arkansas, Fayetteville, Ark.; University of Florida, Gainesville, Florida; University of Idaho, Moscow, Idaho; University of Kentucky, Lexington, Ky.; University of Nevada, Reno, Nev.; University of Southern California, Los Angeles, Cal.; University of Utah, Salt Lake City, Utah; Western College for Women, Oxford, Idaho; Westminster College, New Wilmington, Penn.; Wheaton College, Norton, Mass.; William and Mary College, Williamsburg, Va.

The following particulars of the 26 institutions belonging to the Assocn. of American Univs. have been kindly supplied by the American University Union in Europe, British Division. All are co-educational, except C.U.A., Clark, Harvard, Princeton, Virginia, and Yale, and even these, except C.U.A. and Princeton, admit women for graduate work. Where not otherwise stated the Fees charged at Halls of Residence or dormitories are for rooms (with heating and light) without board. Fees payable on matriculation and on graduation have not been specified. They range between $5 and $30. Fuller information, including particulars of equipment and research funds, library facilities, and facilities for publication of research results, is given in *Opportunities for Study at American Graduate Schools*, Bulletin, 1921, No. 6, of the United States Bureau of Education.

CALIFORNIA, UNIVERSITY OF (founded 1868), Berkeley, Cal. (State Univ.). *President*: W. W. Campbell, Sc.D., LL.D. *Deans*: Graduate Division—C. B. Lipman, Ph.D.; Undergraduate Division—T. M. Putnam; College of Letters and Science—Monroe E. Deutsch; Agric. —H. J. Webber; Mechanics—C. L. Cory, M.E., E.D.; Mining—F. H. Probert; Civil Engineering—C. Derleth, C.E.; Chemistry—G. N. Lewis, A.M., Ph.D.; Commerce—S. Daggett, A.M., Ph.D.; Education —W. W. Kemp, Ph.D.; Jurisprudence—O. K. McMurray; Medicine (actg.)—L. S. Schmitt, M.D.; Dentistry—G. S. Millberry. Director of School of Archit.—J. G. Howard; Division of Vocational Education —E. A. Lee.

* Institutions starred are members of the Association of American Universities.

‡ For men only.

Library: 400,000 vols. *Fees*: Tuition, $150 p.a.; Incidental, $50 p.a. *Living Expenses in Berkeley*: Board and lodging, $35 to $55 p.m. *Teaching Staff*: 1599. *Students*: 16,194; Undergraduates 9318, Law 310, Med. 249, Dent. 435, Teachers' College 217. *Summer Session* in all departments, 6 weeks, 6465 students; address, the Dean of the Summer Session.

CATHOLIC UNIVERSITY OF AMERICA (founded 1889), Washington, D.C. *Rector*: Rt. Rev. T. J. Shahan, S.T.D., J.U.L., LL.D. *Deans of Faculties*: Sacred Sciences—Very Rev. P. J. Healy, S.T.D.; Law—F. Bernardini, S.T.D., J.U.D.; Philosophy—C. H. McCarthy, Ph.D.; Letters—P. J. Lennox, Litt.D.; Sciences—A. E. Landry, Ph.D.; President of Divinity Coll.—Very Rev. J. F. Fenlon, S.S., S.T.D.

Library: 160,000 vols. *Fees* for tuition: $300 p.a. *Halls of Residence*: Board and room, $48 p.m. *Teaching Staff*: 99. *Students*: 2059; Sac. Sc. 19, Canon 18, Law 28, Philos. 224, Lett. 46, Sc. 183, Div. Coll. 1641. *Summer School* for Catholic women teachers, 6 weeks, 700 students, Registrar.

CHICAGO, UNIVERSITY OF (1891), Chicago, Ill. *President*: E. D. Burton, D.D. *Deans*: Graduate School of Arts and Lit.—G. J. Laing, Ph.D.; Ogden Graduate School of Science—H. G. Gale, Ph.D., Colleges of Arts, Lit., and Science—G. H. Wilkins; University College—E. T. Filbey; Divinity School—S. Mathews; Law School—J. P. Hall; Medical Students—B. C. H. Harvey; School of Commerce and Admn. and Graduate School of Social Service Admn.—L. C. Marshall; College of Educn.—W. S. Gray; School of Educn. (Director)—C. H. Judd.

Libraries: 700,000 vols., 200,000 pamphlets. *Fees*: Tuition, $60 a quarter. *Halls of Residence*: $30 to $75 a quarter. Board not less than $7 a week. *Teaching Staff*: 377. *Students*: 12,748; Graduate Schools 3485, Colleges 3679, Univ. College 2318, Divinity 492, Medical 389, Law 444, Education 1770, Commerce 841, Grad. Sch. of Social Service Admn. 111. *Summer quarter* in all departments, 10 weeks; address, Examiner of the Univ.

CLARK (founded 1889), Worcester, Mass. *President*: Wallace W. Atwood. *Dean of the Collegiate Dept.*: H. P. Little.

Libraries: 105,000 vols., 500 journals. *Fees* for tuition: $150 p.a. *Halls of Residence* for a few male graduate students only. Furnished rooms near from $3 per week. Board from $7. *Teaching Staff*: 60. *Students*: 411; Graduate 70, Undergrad. 163, special 43. *Summer School*, chiefly Geography and History, 5 weeks, 135 students; Registrar.

COLUMBIA (founded 1754), New York City. *President*: Nicholas Murray Butler, Ph.D., LL.D., D.Litt. *Deans of Faculties*: Pol. Sc., Philos., and Pure Sc.—F. J. E. Woodbridge, A.M., LL.D.; Applied Sc.—G. B. Pegram, Ph.D.; Law—T. I. Parkinson (acting), LL.D.; Medicine—W. Darrach, M.D.; Columbia College—H. E. Hawkes, Ph.D.; Barnard Coll.—Virginia C. Gildersleeve, Ph.D.; Teachers' Coll.—J. E. Russell, Ph.D., LL.D.; Coll. of Pharmacy—H. H. Rusby,

M.D. Directors of Architecture—W. A. Bering; Journalism—J. W. Cunliffe; Business—J. C. Egbert.

Libraries: 835,000 vols. *Fees*: Tuition, $248 p.a. *Halls of Residence*: $135 to $215 p.a. *Teaching Staff*: 1662. *Students*: 22,813; undergraduate 3027, graduate 1996, Law 700, Med. 386, Appl. Sc. 227, Archit. 83, Journalism 172, Bus. 326, Dent. 541, Teachers' College 4750, Pharm. 826. *Summer Session* in all depts., 5 weeks, 12,675 students; Director.

The "International Institute," established in 1923 with the aid of an annual contribution of $100,000 for ten years from the International Education Board (founded by John D. Rockefeller, 1923), is an integral part of Teachers' College which had in that year some 250 foreign students and over 100 Americans who held posts as teachers in other countries. The Institute's work comprises: (*a*) Presentation of general view of American educational system and its adaptation to foreign situations and problems; (*b*) visitation of American Schools for study of conditions and procedure; (*c*) investigation of educational conditions in foreign countries; (*d*) instruction in American ideals and institutions as a basis for understanding American education; (*e*) publication of *International Education Year-Book* dealing with progress of educn. in various countries each year and completing once in 5 years an account of every country in the world.

CORNELL (founded 1868), Ithaca, N.Y. *President*: Livingston Farrand, M.D., LL.D. *Deans of Colleges*: Arts and Science—R. M. Ogden; Medical—W. L. Niles, M.D.; Agric.—A. R. Mann, A.M.; Archit.—F. H. Bosworth; Engin.—D. S. Kimball, M.E.; Graduate School—R. R. H. Kenıston, Ph.D., LL.D.; Faculty of Law—G. G. Bogert; Veterinary—V. Q. Moore.

Libraries: 710,000 vols. and pamphlets. Over 2000 current periodicals received. *Fees* for tuition: Coll. of Arts and Sc., $250 p.a.; Graduate School, $75 p.a. *Teaching Staff*: 960. *Students*: 5588; Graduate 544, Arts and Sc. 1919, Law 113, Eng. 1355, Archit. 181, Med. 274, Vet. 87, Agr. 1221. *Summer Session* in all depts., 6 weeks, 2229 students; Registrar.

HARVARD (founded 1638), Cambridge, Mass. *President*: Abbott Lawrence Lowell, LL.D. *Deans*: Faculty of Arts and Sc.—Le Baron R. Briggs, LL D., Litt.D.; Graduate School of Arts and Science—J. L. Lowes, Ph.D.; Harvard College—C. N. Greenough, Ph.D.; Special Students (in charge of Univ. Extension)—A. F. Whittem, Ph.D.; Engineering Sch.—H. J. Hughes; Faculty of Archit.—G. H. Edgell, Ph.D.; Graduate Sch. of Business Admn.—W. B. Donham, LL.B.; Bussey Institn.—W. M. Wheeler, Ph.D.; Theological School—W. L. Sperry, D.D.; Faculty of Law—Roscoe Pound, Ph.D., LL.D.; Graduate Sch. of Educn.—H. W. Holmes; Medical Sch.—D. L. Edsall, M.D.; Dental Sch.—L. M. S. Miner.

Libraries: College, 1,375,000 vols. and pamphlets; Departmental, 2,300,000. *Fees*: Tuition, $250 p.a. *Halls of Residence*: $50 to $200 p.a. Board, $240 to $350 p.a. *Teaching Staff*: 957. *Students*: 6073; Arts and Sc. 3327, Eng. 261, Div. 61, Law 999, Med. 472, Dent.

205, Busi. 466, Archit. 79, Ed. 153, Bussey Inst. (Applied Biology) 20, Pub. Health 30. *Summer Session* in all depts., 6 weeks, 2022 students; Director.

ILLINOIS, UNIVERSITY OF (founded 1868), Urbana, Ill. (State Univ.). *President*: David Kinley, Ph.D., LL.D. *Deans of Colleges*: Liberal Art and Sc.—K. C. Babcock, B.Lit., Ph.D., LL.D.; Commerce and Business Admn.—C. M. Thompson, Ph.D, LL.D.; Engineering—M. S. Ketchum, C.E.; Agric.—H. W. Mumford, B.S.; Law—A. J. Hasno, B.S., LL.B.; Graduate School—A. H. Daniels, Ph.D.; Education—C. E. Chadsey, Ph.D.; Medicine—A. C. Eycleshymer, Ph.D., M.D.; Dentistry—F. B. Moorehead, D.D.S., M.D.; School of Pharmacy—W. B. Day, Ph.G.; Sch. of Music (Director)—F. B. Stiven, B.Mus., A.A.G.O.; Library School (Dir.)—P. L. Windsor, Ph.B.; Railway Engin. and Admn.—M. S. Ketchum, C.E. (Dir.).

Library: 520,000 vols., 60,000 pamphlets. *Fees* for tuition: $75 p.a. *Halls of Residence*: $108 to $180 p.a. (single rooms); $81 to $150 (double). Board, $260 to 360 p.a. *Teaching Staff*: 1170. *Students*: 11,083; Arts and Sc. 3102, Com. 2126, Ed. 515, Eng. 1461, Agr. 727, Law 207, Grad. 662, Med. 439, Dent. 153, Phm. 386. *Summer Session* in all depts., 7 weeks, 2064 students, Director.

INDIANA (founded 1820), Bloomington, Ind. (State Univ.). *President*: Wm. Lowe Bryan, Ph.D., LL.D. *Deans of Schools*: Graduate School—C. H. Eigenmann, Ph.D.; Medicine—C. P. Emerson, M.D.; Education—H. Lester Smith, Ph.D.; Law—C. McG. Hepburn, A.M., LL.B., LL.D.; Commerce and Finance—W. A. Rawles, Ph.D.; Music—B. W. Merrill; College of Arts and Sc.—S. E. Stout, Ph.D., and D. A. Rothrock, Ph.D.

Library: 160,000 vols. *Fees*: $47.50 a semester. *Living Expenses* in Bloomington, per week: Room, $2 to $5; Board, $5 to $7. *Teaching Staff*: 226. *Students*: 5106; graduate 340, Med. 350, Ed. 380, Law 120, College 3916. *Summer Session* in all depts., 7 weeks; Director.

IOWA, STATE UNIV. OF (founded 1855), Iowa City. *President*: W. A. Jessup, Ph.D. *Deans of Colleges*: Liberal Arts—G. F. Kay, Ph.D.; Law—H. C. Jones, S.J.D.; Medicine—L. W. Dean, M.S., M.D., F.A.C.S.; Dentistry—F. T. Breene, D.D.S., M.D.; Pharmacy—W. J. Teeters, M.S., Ph.C.; Graduate College—C. E. Seashore, Ph.D.; Applied Sc.—W. G. Raymond, C.E., LL.D., Eng.D.; Education—P. C. Packer, Ph.D.; Commerce—C. A. Phillips, Ph.D. Principal, School of Nursing—Josephine Creelman, R.N.

Library: 200,000 vols. *Fees* for tuition, $80 p.a. *Halls of Residence*: $72 to $78.75 (single rooms); $49.50 to $62.50 (double). Board, $6 per week. *Teaching Staff*: 500. *Students*: 6151; Grad. 1160, Lib. Arts 4142, Com. 244, Law 213, Med. 385, Dent. 224, Phm. 130, App. Sc. 352, Nurs. 282. *Summer Session* in all depts., 10 weeks, 2267 students; address, Registrar.

JOHNS HOPKINS (founded 1876), Baltimore, Maryland. *President*: Frank Johnson Goodnow, LL.D. *Deans of Faculties*: Medical—

L. H. Weed, M.D.; Engin.—J. B. Whitehead, Ph.D.; College—J. H. Latane, Ph.D., LL.D.; Dir., College Courses for Teachers—E. F. Buchner, Ph.D.; Dir., Hygiene and Pub. Health—E. V. McCallum. Walter Hines Page *School of International Relations* (Fundamental Bases, History, Law, Practice and Procedure, Organizations).

Libraries: 265,000 vols. *Fees* for tuition: Undergraduate, $250 p.a.; Graduate, $150 p.a. *Teaching Staff*: 389. *Students*. 3130; Arts and Sc. grad. 347, College 359, Med. 331, Hyg. 193, Eng. 229, Teachers 1165. *Summer Session* in all depts., 5 weeks, 753 students; Director.

KANSAS, UNIV. OF (1866), Lawrence, Kansas (State Univ.). *Chancellor*: E. H. Lindley, Ph.D. *Deans of Schools*: Graduate School —E. B. Stouffer, Ph.D.; Sch. of Engineering—P. F. Walker, M.M.E.; Law—H. W. Arant, LL.B.; Fine Arts—D. M. Swarthout; Pharmacy —L. E. Sayre, Ph.M.; Medicine—M. T. Sudler, Ph.D.; Education—(acting) R. A. Schwegler; College of Liberal Arts and Sc.—J. G. Brandt, Ph.D.

Library: 158,000 vols., 45,000 pamphlets, 1500 periodicals. *Fees*: Incidental, $30 p.a. *Living Expenses* in Lawrence (average): room, $10 p.m. Board, $7 per week. *Teaching Staff*: 262. *Students*: 3950; Grad. 236, Coll. 2797, Eng. 1410, Art 926, Law 256, Phm. 180, Med. 278, Ed. 1296. *Summer Session* in all depts., 9 weeks, 1495 students; Director.

MICHIGAN, UNIV. OF (1837), Ann Arbor, Mich. (State Univ.). *President*: Marion Leroy Burton [died 18.2.25]. *Deans*: Coll. of Lit., Sc., and Arts—J. R. Effinger, Ph.D.; Colls of Engin. and Archit. —M. E. Cooley, LL.D.; Medical Sch.—H. Cabot, M.D.; Law School—H. M. Bates, Ph.B.; College of Pharmacy—E. H. Kraus, Ph.D., Sc.D.; Coll. of Dental Surgery—M. L. Ward, D.D.Sc.; Sch. of Educn.—A. S. Whitney, LL.D.; Graduate Sch.—A. H. Lloyd, Ph.D.

Libraries: 550,000 vols., 2883 periodicals. *Fees* for tuition: men, $110; women, $105 p.a. *Teaching Staff*: 633. *Students*: 10,068; Sc. and Arts 5561, Eng. 1912, Med. 664, Law 429, Phm. 88, Dent. 410, Ed. 466, Grad. 625. *Summer Session* in all depts., 7 weeks, 2786 students; Secretary.

MINNESOTA, UNIV. OF (1868), Minneapolis, Minn. (State Univ.). *President*: L. D. Coffman, Ph.D. *Deans*: College of Sc., Lit., and Arts—J. B. Johnson, Ph.D.; Coll. of Engin. and Archit. and Sch. of Chem.—O. M. Leland, B.S., C.E.; Dept. of Agric.—W. C. Coffey, M.S.; Coll. of Agric., Forestry, and Home Econ.—E. M. Freeman, Ph.D.; Law Sch.—E. Fraser, LL.B.; Medical Sch.—E. P. Lyon, Ph.D., M.D.; Coll. of Dentistry—A. Owre, M.D., C.M., D.M.D.; Sch. of Mines—W. R. Appleby, M.A.; Coll. of Pharmacy—F. J. Wulling, Phm.D., LL.M.; Coll. of Educn.—M. E. Haggerty, Ph.D.; Graduate Sch.—G. S. Ford, Ph.D.; Sch. of Business—G. W. Dowrie, Ph.D.

Library: 395,000 vols. *Fees* per quarter for tuition: Coll. of Sc., Lit., and Arts, $30; Graduate Sch., $10. *Living Expenses* in Minneapolis: Rooms, $9 to $15 p.m. (double); $12 to $18 (single). Board, $5 to $8 per week. *Teaching Staff*: 951. *Students*: 9541;

Arts and Sc. 4343, Eng. 1208, Ag. etc. 671, Law 301, Med. 429, Dent. 404, Mines 171, Phm. 134, Ed. 879, Grad. 801, Bus. 200. *Summer Session* in all depts., 11 weeks.

MISSOURI, UNIV. OF (1839), Columbia, Mo. (State Univ.). *President*: S. D. Brooks, LL.D. *Deans*: Arts and Sc.—F. M. Tisdel; Educn.—M. G. Neale, Ph.D.; Business and Public Admn.—I. Loeb, M.S., LL.B., Ph.D.; Law—J. P. McBaine, LL.B.; Engineering—E. J. McCaustland, C.E., M.C.E.; Graduate Faculty—W. Miller, LL.D.; Agric.—F. B. Mumford, B.S., M.S.; Medicine—G. L. Noyes, M.D.; Journalism—W. Williams, LL.D.; Director of Sch. of Mines and Metallurgy—C. H. Fulton, E.M., D.Sc.

Library: 210,000 vols., 25,000 pamphlets, 2000 periodicals. *Fees* for tuition, $10 per term. Graduate work only in Graduate school free. Incidental Fee, $25 per term. *Living Expenses* in Columbia: Board, $5 to $8 per week. Room, $36 to $50 per semester. *Teaching Staff*: 289. *Students*: 5075; Agr. 658, Arts and Sc. 2264, Bus. 142, Ed. 501, Eng. 464, Grad. 337, Journ. 255, Law 114, Med. 79, Min. 361. *Summer Session* in all depts., 8 weeks; Director.

NEBRASKA, UNIV. OF (1869), Lincoln, Neb. (State Univ.). *Chancellor*: S. Avery, Ph.D., LL.D.; *Deans of Colleges*: The Graduate Coll.—L. A. Sherman, Ph.D., LL.D.; Agric.—E. A. Burnett, D.Sc.; Medicine—I. S. Cutter, M.D.; Pharmacy—R. A. Lyman, A.M., M.D.; Engin.—O. J. Ferguson, M.E.E.; Arts and Sc.— ; Business Admn.—J. E. Le Rossignol, Ph.D.; Dentistry—G. A. Trubb, D.D.S.; Law—W. A. Seavey, LL.B.; Teachers College—W. E. Sealock, Ph.D.; Director of Sch. of Fine Arts—P. H. Grummann, A.M.; of Nursing—Charlotte Burgess; of Journalism—M. M. Fogg; Prin. of Sch. of Agric.—H. E. Bradford, A.M.

Library: 180,000 vols. *Fees*: Incidental Fee, $5 per semester. *Living Expenses* in Lincoln: Rooms, $8 to $15 p.m. Board, $6 per week. Tuition, $30 p.a. *Teaching Staff*: 337. *Students*: 8654; Grad. 576, Agr. 565, Arts and Sc. 3012, Art, 370, Jour. 92, Bus. 993, Dent. 95, Eng. 675, Law 213, Med. 387, Nurs. 58, Phm. 154, Teachers 2106. *Summer Session* in all depts., 10 weeks.

NORTH CAROLINA, UNIV. OF (founded in 1789), Chapel Hill, N.C. *President*: H. W. Chase, Ph.D., LL.D. *Deans*: College of Liberal Arts—J. F. Royster, Ph.D.; Schools of Applied Science—(acting) J. M. Bell, Ph.D.; Education—N. W. Walker, Ed.M. (acting); Commerce—D. de Witt Carroll, M.A.; Law—(actg.) A. C. McIntosh, A.M.; Med.—I. H. Manning, M.D.; Pharmacy—E. V. Howell, A.B., Ph.G.; Engineering—G. M. Braune, C.E.; Graduate School—E. Greenlaw, Ph.D. Director of School of Public Welfare—H. W. Odum, Ph.D.

Libraries: 125,000 vols., 1005 current periodicals. *Fees*: Tuition, $20 per quarter; Matriculation, $12 per quarter. *Halls of Residence*, $5 to $9.50 a month. Board, $22 a month. *Teaching Staff*: 135. *Students*: 2359; Grad. 108, Undergrad. 1843, Law 129, Med. 71, Phm. 108. *Summer School* in all depts., 12 weeks, 1492 students; Director.

NORTHWESTERN (founded 1855), Evanston, Ill. *President*: Walter

Dill Scott, Ph.D., LL.D. *Deans of Schools*: Graduate School—J. A. James, Ph.D., LL.D.; Medical—A. I. Kendall, Ph.D., Dr.P.H.; Law —J. H. Wigmore, M.A., LL.B., LL.D.; Dental—A. D. Black, M.A., M.D., D.D.S., D.Sc.; Music—P. C. Lutkin, Mus.D., A.G.O.; Commerce—R. E. Heilman, Ph.D.; Speech—R. B. Dennis, M.A.; College of Liberal Arts—R. A. Kent, Ph.D., Coll. of Engineering (Director) —J. F. Hayford, C.E., D.Sc.; Educn. (Dir.)—E. E. Jones, Ph.D.; Medill School of Journalism (Dir.)—H. F. Harrington, M.A.

Library: 150,000 vols.; 115,000 pamphlets. *Fees* for tuition: Undergraduate, $112.50 per semester; Graduate not more than $125 p.a. *Halls of Residence*: $115 to $200 p.a. *Teaching Staff*: 639. *Students*: 8589; Lib. Arts 2132, Grad. 347, Med. 513, Law 211, Eng. 169, Dent. 386, Mus. 370, Com. 4020, Jour. 392, Speech 256. *Summer Session* in all depts., 8 weeks, 1613 students; Director.

OHIO STATE UNIV. (founded 1870), Columbus, Ohio *President*: Wm. Oxley Thompson, D.D., LL.D. *Deans of Colleges*: Agriculture—A. Vivian, Ph.G.; Arts, Philos., and Sc.—W. E. Henderson, A.M., Ph.D.; Commerce and Journalism—J. E. Hagerty, Ph.D.; Education —G. F. Arps, A.M., Ph.D.; Engineering—E. A. Hitchcock; Graduate School—W. McPherson, M.Sc., D.Sc., Ph.D.; Dent.—H. M. Semans; Law—John J. Adams; Med.—E. F. McCampbell; Pharm.—C. A. Dye; Vet. Med.—D. S. White.

Library: 238,154 vols. *Fees* for tuition: $35 per quarter; Incidental, $15 per quarter. *Living Expenses*: Furnished rooms, $10 to $15 p.m. Board, $6.50 to $8 per week. *Teaching Staff*: 569. *Students*: 8583; Grad. 488, Agr. 1063, Arts 2999, Com., etc. 608, Dent. 173, Ed. 1004, Eng. 1408, Law 238, Med. 313, Phm. 281, Vet. 83. *Summer Quarter* in all depts., 10 weeks, 1953 students.

PENNSYLVANIA, UNIVERSITY OF (founded 1740), Philadelphia, Pa. *Provost*: J. H. Penniman, Ph.D., LL.D. *Deans of Faculties*: College —R. B. Burke, A.M.; Towne Scientific Sch.—J. Frazer, Ph.D.; Wharton Sch.—E. R. Johnson, Ph.D., Sc.D.; Educn.—J. H. Minnick, Ph.D.; Fine Arts—W. P. Laird, Sc.D.; Graduate Sch.—H. V. Ames, Ph.D.; Medicine—W. Pepper, M.D.; Law—W. E. Mikell, LL.D.; Dentistry—C. R. Turner, M.D.; Vet. Med.—L. A. Klein, V.M.D.; Graduate Sch. of Med.—G. H. Meeker, Ph.D., LL.D.; Elec. Engin.—H. Pender, Ph.D.

Libraries: 550,000 vols., 50,000 pamphlets. *Fees* for tuition: $275. *Halls of Residence*: Board and lodging from $380 p.a. *Teachers*: 1149. *Students*: 12,409; College 1016, Educn. 1124, Towne 342, El. Eng. 341, Wharton (Commerce) 2505, Art 302, Teachers courses 931, Grad. 1227, Law 285, Med. 624, Dent. 586, Vet. 41. *Summer School* in nearly all depts., 6 weeks, 2024 students; Director.

PRINCETON (founded in 1747), Princeton, N.J. *President*: J. G. Hibben, Ph.D., LL.D., Litt.D. *Deans*: Graduate School—A. F. West, Ph.D., LL.D.; Depts. of Science—H. B. Fine, Ph.D., LL.D.; Faculty—W. F. Magie, Ph.D., LL.D.; College—H. McClenahan, LL.D.; Sch. of Engin.—A. M. Greene, D.Sc.

Libraries: 587,106 vols., 109,714 periodicals and pamphlets. *Fees*

for tuition: $300. *Halls of Residence*: $125 to $275 p.a. Board, $288 p.a. *Teachers*: 234. *Students*: 2373; Grad. 195, Undergrad. 2084.

STANFORD (founded 1891), California. *President*: Ray Lyman Wilbur. *Deans*: School of Educn.—E. P. Cubberley; Law Sch.—M. R. Kirkwood; Sch. of Medicine—W. Ophuls; Graduate Study—E. C. Franklin.

Libraries: 370,000 vols. *Fees* per quarter for tuition: Undergraduate, $75; Graduate, $50; Incidental (undergrads.), $20 per quarter. *Halls of Residence*: $18.50 to $36 per quarter. Board, $30. *Teaching Staff*: 388. *Students*: 3655; Grad. 861, Undergrad. 2725. *Summer Quarter* in all depts., 10 weeks, 936 students, Registrar.

UNIVERSITY OF VIRGINIA (founded in 1819), Charlottesville, Va. (State Univ.). *President*: E. A. Alderman, D.C.L., LL.D. *Deans of Departments*: Univ. and College—J. M. Page, Ph.D., LL.D.; Graduate Sch.—J. C. Metcalf, Litt.D., LL.D.; Law—W. M. Lile, LL.D.; Med.—T. Hough, Ph.D.; Engin.—W. M. Thornton, LL.D.; Educn.—J L. Manahan, Ph.D.

Libraries: 90,000 vols. *Fees* per annum: University, $60; tuition, $160. *Halls of Residence*: $60 to $95 p.a. Board, $200 to $300 p.a. *Teaching Staff*: 100. *Students*: 1801; College 1045, Grad. 95, Ed. 71, Eng. 163, Law 235, Med. 193. *Summer Quarter* in all depts., 11 weeks, 2591 students; Dean.

WASHINGTON UNIVERSITY (founded in 1853), St. Louis, Missouri. *Chancellor*: H. Spencer Hadley, LL.D.Dean of the College of Liberal Arts—G. O. James, Ph.D.; Schools of Engin. and Archit.—W. E. McCourt, A.M.; of Commerce and Finance—L. S. Lyon, Ph.D.; Henry Shaw School of Botany—G. T. Moore, Ph.D., Engelmann, Prof.; Chairman of Board of Graduate Studies and Grad. School of Economics and Govt.—Otto Heller, Ph.D.; Dean of the School of Law—R. L. Goode, LL.D.; of Med.—W. M. Marriott, M.D.; of Dent.—W. M. Bartlett, D.D.S.; Director of School of Fine Arts—E. H. Wuerpel.

Library: 222,750 vols., 79,750 pamphlets. *Fees*: Tuition, $200 a year in the Coll. of Liberal Arts; $25 a year in the School of Graduate Studies. *Halls of Residence*: $30 to $75 a quarter. Board not less than $7 a week. *Teaching Staff*: 506. *Students*: 5832; College 1296, Eng. 362, Archit. 93, Com. and Fin. 408, Graduate 108, Law 225, Med. 447, Dent. 68, Fine Arts 463, Univ. Extension 2362. No *Summer School*.

WISCONSIN, UNIV. OF (1849), Madison, Wis. (State Univ.). *President*: E. A. Birge, Ph.D., Sc.D., LL.D. *Deans of Colleges*: Letters and Sc.—G. C. Sellery, Ph.D., LL.D.; Engineering—F. E. Turneaure, C.E., Dr.Engr.; Agric.—H. L. Russell, Ph.D.; Law School—H. S. Richards, Ph.B., LL.B., LL.D.; Medical Sch.—C. R. Bardeen, M.D.; Graduate Sch.—C. S. Slichter, Sc.D.

Library: 698,000 vols., 363,000 pamphlets. *Fees* per semester: for tuition, $62; Incidental, $15.50. *Living Expenses* in Madison: Room, $4 to $6 a week (single), $3 to $5 (double). Board, $6.50 to $9 a week. *Teaching Staff*: 1093. *Students*: 8368; Grad. School

of Arts and Sc. 59, Coll. of Eng. 1142, Agr. 796, Med. 156, Law 239. Undergrads. in Arts and Sc. 5781. *Summer Session* in all depts., 6 weeks, 3390 students; Director.

YALE (founded 1701), New Haven, Conn. *President*: J. R. Angell, Litt.D., LL.D. *Deans of Schools*: Graduate School—W. L. Cross, Ph.D., Litt.D.; Med.—M. C. Winternitz, M.D.; Divinity—Rev. C. R. Brown, LL.D., Law—T. W. Swan, M.A.; Fine Arts—E. V. Meeks, A.D.G.F., M.A.; Music—D. S. Smith, Mus.D.; Forestry—H. S. Graves, M.A.; Yale College—F. S. Jones, LL.D.; Sheffield Scientific School—C. H. Warren, Ph.D.

Libraries: 1,500,000 vols., 9000 periodicals. *Fees* for tuition: Undergraduate, $300; Graduate, $200 p.a. *Halls of Residence*: $110 to $330 p.a. Board, $8.50 per week. *Teaching Staff*: 873. *Students*: 4447; Grad. 820, College 2005, Sheff. 691, Med. 190, Div. 204, Law 323, Mus. 122, For. 33. *Summer Session* in Law, Forestry, and Engin. Fieldwork, 10 weeks.

LATIN AMERICA

For the following statistics the Universities Bureau is indebted to the Director of the Pan-American Union, Washington, D.C., an organization controlled by the Secretary of State of the United States and the Diplomatic Representatives in Washington of the other American Republics. The Union's Educational Section is a centre for the dissemination of educational information and for the interchange of professors, etc. It has arranged to receive from the Universities of each country in the Union lists of scientific investigations undertaken, with names of the professors who are capable of giving courses relating thereto, for distribution among the universities of the other countries for selection if they desire to utilize such interchange. According to a bulletin issued by the Washington Bureau of Education in 1923 on Education in Latin America, the largest and most representative of the Univs. is the National Univ. of Buenos Aires, where the arts department offers a 4-year course (following 6 years of primary and 5 years of secondary schooling) leading in connexion with a thesis to the degree of Ph.D. The college of Medicine has a 6-years' course, Pharmacy—5, Dentistry—4, Law—5, Engineering—5 and 6.

N.B.—Univ. = Universidad (Brazil-Universidade) Private institutions are shown in italics. The Faculties are indicated by letters thus: A, Ag., C, D, Ed., En., L, Ls, M, P, S, Soc., T, V, for: Arts (Philosophy and Letters), Agronomy, Commerce, Dentistry, Education, Engineering, Law, Law and Social Sciences, Medicine, Pharmacy, Science (Math., Physical and Natural), Social Sciences, Theology, Veterinary Science. Schools, Institutes, etc., associated with Univs. are shown in brackets.

ARGENTINA. UNIV. NACIONAL, BUENOS AIRES: Ls, M (P, D), S (Architecture), A (Ethnog. Museum), Ag. and V, C. Also at Buenos Aires: *Univ. Catolica*—L, Soc; *Univ. Libre* ("popular"). UNIV.

NACIONAL, CORDOBA : Ls, M (P, D), S. UNIV. NACIONAL, LA PLATA : S (Astron., Hydraulics), Ls, Ed., Ag., Chemical Sciences, Fine Art. UNIV. DE TUCUMÁN : En. (electro-trechnics), P (sub-tropical Hygiene), Normal College, Schools of Painting and of Business. UNIV. NACIONAL DEL LITORAL : Ls, Ag. and Industrial Chemistry, both at SANTA FÉ ; M and Applied S at ROSARIO ; Ed. at PARANA ; Ag. at CORRIENTES.

BOLIVIA. UNIV. DE SAN SIMÓN, COCHABAMBA : L, T (Ag.). UNIV. DE LA PAZ : M, L, T, P, D (Ed.). UNIV. MAYOR DE SAN FRANCISCO XAVIER, SUCRE : M, L, T, P.

BRAZIL. UNIV. DE PARANA, CURYTIBA : M, L, En, P, D, C. *O Granbery, Juiz de Fora Minas Geraes.* INSTITUTO EVANGÉLICO, LAVRAS : A, Ag. UNIV. DE MANÁOS, MANÁOS, AMAZONAS : En. (Ag., Surveying), Ls, M (P, D), S and A. SCHOOL OF ENGINEERING, PORTO ALEGRE, Rio Grande do Sul : (Astron. and Meteor., Ag. and V). UNIV. NACIONAL, RIO DE JANEIRO : M, L, Polytechnic School. UNIV. DE SAO PAULO : L, En., M, D, P. *Mackenzie College, Sao Paulo* : A, En., Industrial Chemistry.

CHILE. UNIV. Y HOSPITAL CLÍNICO DEL SUR, CONCEPCION : D, P, Ed. (in English), C (Indust. Chem.). UNIV. CATOLICA DE CHILE, SANTIAGO : Ag. and Industries, Archit. and Fine Arts, S, C, Ls, A, T. UNIV. DE CHILE, SANTIAGO : S (Archit., En.), A (Ed., Fine Art), Ls, M and P (D).

COLOMBIA. *Colegio Major de N.S. del Rosario, Bogotá* : L and Soc., A. *Univ. Hispano Americana de Bogotá.* UNIV. NACIONAL, BOGOTÁ : Ls, M and S (D), En. UNIV. DE CARTAGENA : M and S (P, D), Ls, A (Fine Art). UNIV. DE ANTIOQUIA, MEDELLÍN : Ls, M and S, A. UNIV. DE NARIÑO, PASTO : A, Ls. UNIV. DEL CAUCA, POPAYÁN : Ls, En., A, Painting, Ag. and C. UNIV. DEL MAGDALENA, SANTA MARTA.

CUBA. UNIV. DE LA HABANA : A and S (Ed., Elec. En. and Archit., Ag. En.), M and P (D, V), L.

DOMINICAN REPUBLIC. UNIV. CENTRAL, SANTO DOMINGO : Ls, M, S, Ag. and V, P.

ECUADOR. UNIV. DEL AZUAY, CUENCA : Ls. UNIV. DEL GUAYAS, GUAYAQUIL : Ls. JUNTA UNIV. DE LOJA : Ls. UNIV. CENTRAL, QUITO : Ls, M and P (D), S, A.

GUATEMALA. UNIV. NACIONAL : Ls, M, En., S and P. *Univ. Hispano-Americana.* UNIV., QUEZALTENANGO : L.

HONDURAS. UNIV. CENTRAL DE HONDURAS, TEGUCIGALPA : L, M, En.

MEXICO. UNIV. NACIONAL DEL SURESTE, MERIDA : L, M, En., P, Music, Ed., Fine Art. UNIV. NACIONAL, MEXICO : A, L, M (P), En., Fine Art, D, Chemical Industries, Music and Drama. UNIV. MICHOACANA, MORELIA : M, Ed.

PANAMA. INSTITUTO NACIONAL, PANAMA: Ls, P, C, Surveying, Ed.

PARAGUAY. UNIV. NACIONAL DEL PARAGUAY, ASUNCIÓN: Ls, M (P).

PERU. UNIV. DE S. AGUSTIN, AREQUIPA: S, Soc., L, A. UNIV. DEL CUZCO: S, Ls, A. UNIV. MAYOR DE SAN MARCOS, LIMA: S, Soc., L, A, M, (P, D), T; *Univ. Católica, Lima.* UNIV. DE LA LIBERTAD, TRUJILLO: L, Soc., A.

SALVADOR. UNIV. NACIONAL, SAN SALVADOR: M, P, D, Ls. *Univ. Hispano-Americana, San Salvador.*

URUGUAY. UNIV. DE LA REPUBLICA, MONTEVIDEO: Ls, M, En., Architecture.

VENEZUELA. UNIV. DE LOS ANDES, MERIDA: L, A, T. UNIV. CENTRAL DE VENEZUELA, CARACAS: S, M, P, D, Soc., T.

JAPAN

The Imperial Universities are declared to be for "the teaching of such arts and sciences as are required for the purposes of the State, and the prosecution of original research therein." The course for a first degree covers 3 years (Med. or Law—4 years). Post-graduation courses of research covering from 1 to 5 years lead to a higher degree. Intermediate between them and the secondary schools is a 3-years' preparatory course, given in high schools, in Morals, Japanese, Chinese, Classics, English, German or French, History, Logic, Psychology, Law, and Political Economy, for some of which students destined for the university professional schools substitute mathematics or other sciences. In the other Univs. the standard is not so high, students being admitted direct from the secondary schools. In the following list the Univs. are arranged in groups in the order of relative importance. The faculties, Law, Medicine, Engineering, Literature, Science, Agriculture, Economics, Commerce are indicated by the symbols L, M, E, Lit., S, A, Ec., C. The numbers following the symbols show the number of teachers and of students.

The IMPERIAL UNIVERSITIES. TOKYO: L 30, 1880; M 70, 670; E 150, 930; Lit. 90, 1290; S 60, 370; A 120, 980; Ec. 30, 860. KYOTO: L 20, 700; M 60, 560; E 80, 600; S 70, 250; Lit. 50, 430; Ec. 20, 860. KYUSHU, FUKUOKA: M 60, 420; E 80, 300; A 40, 90. TOHOKU, Sendai: S 60, 200; M 40, 280; E 50, 220; L and Lit. 40, 230. HOKKAIDO, Sapporo: A 60, 240; M 35, 210.

OTHER LARGE UNIVERSITIES. KEIOGIJUKU: L, M, Lit., Ec. 155, 2800. WASEDA: L, Lit., Ec. and Politics, S and E, C; 90, 2900. MEIJI DOSHISHA: L, Lit.; 60, 450. RIKKYO: Lit., C; 55, 360. HOSEI: L and Lit., Ec.; 90, 470. KANSAI: L, C; 35, 250. TOKYO COMMERCIAL UNIV.: 75, 850.

THE MEDICAL UNIVS.: CHIBA, KUMAMOTO, AICHI, OSAKA, KYOTO, OKAYAMA, NAGASAKI, KANAZAWA, NIIGATA, JIKEIKAI; 260, 1500.

There are also faculties of Law and Economics at Senshu (Tokyo) and Ritsumeikan (Kyoto) Univs., of Commerce at Toyokyokai Univ., and of Literature at Otani, Kokugakuin, Ryukoku and Rissei Univs., and an Engineering College at Ryojun (Port Arthur).

XXVI

DISTRIBUTION OF GROUPS OF SUBJECTS IN THE UNIVERSITIES AND UNIVERSITY COLLEGES OF THE UNITED KINGDOM

SCHOOLS OF THEOLOGY

BIRMINGHAM, [Handsworth (Wesleyan) and Lichfield (Church of England) Theological Colls.]; BRISTOL, [Associated Colls.]; CAMBRIDGE; DURHAM; LEEDS, [Coll. of the Resurrection, Mirfield]; LIVERPOOL, [St. Aidan's Coll., Birkenhead]; LONDON, [New Coll., Hampstead (Congregational), Hackney Coll., Hampstead (Congregational), Regent's Park Coll. (Baptist), King's Coll. Theological Department (Church of England), Wesleyan Coll., Richmond, St. John's Hall, Highbury (Church of England)]; MANCHESTER; OXFORD; WALES, [Univ. Coll, Bangor (Baptist Coll., Bangor, Independent Coll., Bangor, Church Hostel, Bangor), The Associated Theological Colls.]. ABERDEEN; EDINBURGH; GLASGOW; ST. ANDREWS. TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [St. Patrick's Coll., Maynooth].

SCHOOLS OF LAW

CAMBRIDGE; LEEDS; LIVERPOOL; LONDON, [University Coll., King's Coll. and the School of Economics, jointly]; MANCHESTER; OXFORD; SHEFFIELD; WALES, [Univ. Coll., Aberystwyth]. ABERDEEN; EDINBURGH; GLASGOW. BELFAST; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

SCHOOLS OF MEDICINE

BIRMINGHAM; BRISTOL; CAMBRIDGE; DURHAM, [College of Medicine, Newcastle]; LEEDS; LIVERPOOL; LONDON, [St. Bartholomew's Hospl., St. Thomas's Hospl., Westminster Hospl., Guy's Hospl., St. George's Hospl., London Hospl., Middlesex Hospl., Charing Cross Hospl., London (Royal Free Hospl) Sch. of Med. for Women, University Coll. and University Coll. Hospl., King's Coll. and King's Coll. Hospl., St. Mary's Hospl., London School of Tropical Med, Lister Institute of Preventive Med., Bethlem Royal Hospl. (Mental), Maudsley Hospl. (Mental), Royal Army Medical Coll., Royal Naval Coll. (Greenwich)]; MANCHESTER; OXFORD; SHEFFIELD; WALES, [Welsh National School of Med., Cardiff]. ABERDEEN; EDINBURGH; GLASGOW; ST. ANDREWS. BELFAST; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

SCHOOLS OF DENTAL SCIENCE

BIRMINGHAM; BRISTOL; DURHAM [College of Medicine, Newcastle, and Newcastle Dental Hospl.]; LEEDS; LIVERPOOL; LONDON [St.

Bartholomew's Hospl., Westminster Hospl., Guy's Hospl., St. George's Hospl., London Hospl., Middlesex Hospl., Charing Cross Hospl., King's Coll. and King's Coll. Hospl., St. Mary's Hospl., London School of Dental Surgery, University Coll. Medical School, Dental Department]; MANCHESTER; SHEFFIELD. BELFAST; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin and Cork].

SCHOOLS OF VETERINARY SCIENCE

LIVERPOOL; LONDON, [Royal Veterinary Coll.]. EDINBURGH, [Royal (Dick) Veterinary Coll.].

SCHOOL OF PHARMACY

GLASGOW [Royal Technical Coll.].

SCHOOLS OF MUSIC

BIRMINGHAM; CAMBRIDGE; LONDON, [Royal Academy, Royal College, Trinity College]; MANCHESTER, [Royal Manchester Coll. of Music]; OXFORD; WALES, [Univ. Colls. of Aberystwyth and Cardiff]; Univ. Coll., Nottingham; Univ. Coll., Reading; Univ. Coll., Southampton. EDINBURGH. TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin and Cork].

SCHOOLS OF ART

DURHAM, [Armstrong Coll.], LONDON, [University Coll.—Slade School], Goldsmiths' Coll.; OXFORD; Univ. Coll., Reading. ABERDEEN; EDINBURGH.

Art of the Theatre. LIVERPOOL.

Civic Art and Design, and Town Planning. BIRMINGHAM; LIVERPOOL; LONDON, [University Coll.—Bartlett School]; SHEFFIELD.

Ecclesiastical Art. LONDON, [King's Coll.].

SCHOOLS OF ARCHITECTURE

CAMBRIDGE; DURHAM, [Armstrong Coll.]; LIVERPOOL; LONDON, [Univ. Coll.—Bartlett School]; MANCHESTER; SHEFFIELD. BELFAST, [Municipal Coll. of Technology]; NATIONAL OF IRELAND, [Univ. Coll., Dublin].

Naval Architecture and Marine Engineering. DURHAM, [Armstrong College]; LIVERPOOL. GLASGOW. BELFAST.

SCHOOL OF JOURNALISM

LONDON, [University Coll., King's Coll. and School of Economics, jointly].

SCHOOL OF LIBRARIANSHIP

LONDON, [University Coll.].

SCHOOLS OF COMMERCIAL SCIENCE

BIRMINGHAM; DURHAM, [Armstrong Coll.]; LIVERPOOL; LONDON,

[School of Economics]; MANCHESTER; Univ. Coll., Nottingham; Univ. Coll., Reading; Univ. Coll., Southampton. ABERDEEN; EDINBURGH. BELFAST; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

SCHOOLS OF ENGINEERING (v. also Schools of Architecture)

All English Universities; Univ. Colls. of Cardiff, Swansea, Nottingham, and Southampton. EDINBURGH; GLASGOW; ST. ANDREWS, [Univ. Coll., Dundee]. BELFAST, [Municipal Coll. of Technology]; TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [Univ. Colls. of Dublin, Cork, and Galway].

SCHOOLS OF METALLURGY

BIRMINGHAM; CAMBRIDGE; DURHAM, [Armstrong Coll.]; LEEDS; LIVERPOOL; LONDON, [Imperial Coll.]; MANCHESTER; SHEFFIELD (*including Non-ferrous Metals*); WALES, [Univ. Colls. of Cardiff and Swansea]; GLASGOW, [Royal Technical Coll.].

SCHOOLS OF MINING

BIRMINGHAM; DURHAM [Armstrong Coll.]; LEEDS; LONDON, [Imperial Coll.]; MANCHESTER; SHEFFIELD; WALES, [Univ. Coll., Cardiff]; Univ. Coll., Nottingham. EDINBURGH, [Heriot-Watt Coll.]; GLASGOW, [Royal Technical Coll.].

Mining and Technology of Petroleum. BIRMINGHAM; LONDON, [Imperial Coll.].

Mining Geology. LONDON, [Imperial Coll.].

SCHOOLS OF AGRICULTURE, FORESTRY, HORTICULTURE, AND ESTATE MANAGEMENT

BRISTOL, [Royal Agric. Coll., Cirencester and National Fruit and Cider Institute, Long Ashton]; CAMBRIDGE; DURHAM, [Armstrong Coll.]; LEEDS; LONDON, [Rothamsted - Lawes Agricultural Trust, South - Eastern Agricultural Coll., Wye]; OXFORD; WALES, [Univ. Colls. of Aberystwyth and Bangor]; Univ. Coll., Nottingham [in conjunction with Midland Agric. Coll.]; Univ. Coll., Reading. ABERDEEN; EDINBURGH; GLASGOW, [West of Scotland Agricultural Coll.]. College of Science for Ireland.

Tropical Agriculture. CAMBRIDGE.

Forestry. CAMBRIDGE; OXFORD; WALES, [Univ. Coll., Bangor]. ABERDEEN; EDINBURGH.

Horticulture. CAMBRIDGE; Univ. Coll., Reading.

Dairying. Univ. Coll., Reading.

SCHOOLS OF EDUCATION AND TRAINING COLLEGES

All Universities and University Colleges.

Training of Teachers for the Deaf. MANCHESTER.

XXVII

DISTRIBUTION OF SUBJECTS OF STUDY TO WHICH EXCEPTIONAL ATTENTION IS GIVEN IN CERTAIN OF THE UNIVERSITIES AND UNIVERSITY COLLEGES OF THE UNITED KINGDOM

(*The omission of the name of a University or College from under any of the following subject-headings is not to be taken as an indication that the subject is not studied.*)

Subjects generally provided for in Schools of Theology, Law, Medicine, etc., or ordinarily recognized as branches of the following departments of knowledge, are omitted from these lists, viz.: Economics, English Language and Literature; History, ancient, mediæval, and modern; Logic; Mathematics; Philology; Philosophy, mental and moral; Phonetics; Anatomy, human and comparative; Astronomy; Botany; Biology; Chemistry, inorganic, organic, physical, physiological (biochemistry), technical; Embryology; Geography; Geology; Histology; Mineralogy; Morphology; Palæontology; Pathology; Physics; Physiology; Psychology; Zoology.

A 34-page pamphlet, including Appendices XXVI. and XXVII. and lists of specialist courses for 1924–25, can be obtained from the Universities Bureau, 50 Russell Sq., London, W.C.1.

ARTS

Anthropology, including Primitive Technology and Archæology: BIRMINGHAM; CAMBRIDGE; LONDON, [University Coll.]; OXFORD. EDINBURGH. NATIONAL OF IRELAND, [Univ. Coll., Dublin]. (Vide also Ethnology.)

Archæology, Assyrian and Babylonian: LIVERPOOL; LONDON, [University Coll., King's Coll.]; OXFORD.

,, *Celtic*: NATIONAL OF IRELAND, [The Univ. Colls.].

,, *Central American*: LIVERPOOL.

,, *Classical*: CAMBRIDGE; LIVERPOOL; LONDON, [University Coll.]; OXFORD. TRINITY COLLEGE, DUBLIN.

,, *Cretan*: Oxford.

,, *Egyptian*: LIVERPOOL; LONDON, [University Coll.]; MANCHESTER; OXFORD.

,, *Numismatics*: CAMBRIDGE; LIVERPOOL; OXFORD.

Astronomy: CAMBRIDGE; LIVERPOOL; OXFORD. EDINBURGH; GLASGOW. TRINITY COLLEGE, DUBLIN.

Astro-physics: CAMBRIDGE; LONDON, [Imperial Coll.].

History, American: OXFORD.

,, *British Dominions*: CAMBRIDGE; LONDON, [King's College]; MANCHESTER; OXFORD; WALES, [Univ. Coll., Aberystwyth]; EDINBURGH.

History, Byzantine: LONDON, [King's Coll.]; OXFORD.
,, *Central European*: LONDON, [King's Coll.].
,, *French, and Institutions*: CAMBRIDGE; LONDON; MANCHESTER.
,, *Indian, and Economics*: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD. EDINBURGH.
,, *Irish*: MANCHESTER. NATIONAL OF IRELAND, [The Univ. Colls.].
,, *of London*: LONDON, [University Coll.].
,, *Military*: OXFORD; LONDON, [University Coll.].
,, *Naval*: CAMBRIDGE.
,, *Russian*: LIVERPOOL; LONDON, [King's Coll.].
,, *Scottish*: EDINBURGH; GLASGOW.
,, *Welsh*: WALES [Post at Bangor].

Palæography, Diplomatic and Papyrology, Bibliography: CAMBRIDGE; LIVERPOOL; LONDON, [University and King's Colls.]; MANCHESTER; OXFORD. EDINBURGH.

Poetry: OXFORD.

Political Science: CAMBRIDGE; LONDON, [School of Economics]; OXFORD; WALES, [Univ. Coll., Aberystwyth]. EDINBURGH; GLASGOW.

Public Administration and Finance: LONDON, [School of Economics]; MANCHESTER.

Public Reading and Speaking: DURHAM. ABERDEEN; EDINBURGH. TRINITY COLLEGE, DUBLIN.

Solar Physics: CAMBRIDGE.

LANGUAGES AND LITERATURE (omitting those which are studied in the large majority of Universities and Colleges, viz., Hebrew including Aramaic and Syriac, Greek, Latin, French, German, Italian, Russian, and Spanish).

Amharic: LONDON, [School of Oriental Studies].

Anglo-Saxon: CAMBRIDGE; LONDON, [Univ. Coll.]; OXFORD; TRINITY COLLEGE, DUBLIN.

Arabic: BRISTOL; CAMBRIDGE; LONDON, [School of Oriental Studies]; MANCHESTER; OXFORD. EDINBURGH; GLASGOW. TRINITY COLLEGE, DUBLIN.

Armenian: LONDON, [School of Oriental Studies].

Assamese: LONDON, [School of Oriental Studies].

Bantu: CAMBRIDGE; LONDON, [School of Oriental Studies].

Bengali: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.

Burmese: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.

Celtic: LONDON, [University Coll.]; OXFORD. ABERDEEN; EDINBURGH; GLASGOW. BELFAST; TRINITY COLLEGE, DUBLIN.

Chinese: CAMBRIDGE; LIVERPOOL; LONDON, [School of Oriental Studies]; MANCHESTER; OXFORD.

Danish, v. Scandinavian.

Dravidian Languages: LONDON, [School of Oriental Studies].

Dutch: LONDON, [Univ. Coll. and Bedford Coll., jointly].

Ethiopic: LONDON, [School of Oriental Studies].

Greek, Mediæval and Modern: LONDON, [King's Coll.].

,, *Byzantine, and Modern*: OXFORD.

Gujerati: LONDON, [School of Oriental Studies].

Hausa: CAMBRIDGE; LONDON, [School of Oriental Studies].

Hindustani: CAMBRIDGE; LONDON, [School of Oriental Studies]. OXFORD. TRINITY COLLEGE, DUBLIN.

Icelandic, v. Scandinavian.

Irish: TRINITY COLLEGE, DUBLIN; NATIONAL OF IRELAND, [The Univ. Colls.].

Japanese: LONDON, [School of Oriental Studies].

Kashmiri: LONDON, [School of Oriental Studies].

Malay: LONDON, [School of Oriental Studies].

Marathi: CAMBRIDGE; LONDON, [School of Oriental Studies].

Melanesian: LONDON, [School of Oriental Studies].

Nepali: LONDON, [School of Oriental Studies].

Norwegian, v. Scandinavian.

Pali: CAMBRIDGE; LONDON, [School of Oriental Studies].

Persian: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD. TRINITY COLLEGE, DUBLIN.

Polynesian: LONDON, [School of Oriental Studies].

Portuguese: CAMBRIDGE; LONDON, [King's College]; Univ. Coll., Nottingham.

Rhæto-Romance: CAMBRIDGE.

Rumanian: CAMBRIDGE; LONDON, [King's College].

Sanskrit: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD; EDINBURGH. TRINITY COLLEGE, DUBLIN.

Scandinavian Languages—Danish, Norwegian, Swedish, Icelandic: CAMBRIDGE; LONDON, [University Coll.]; OXFORD.

Siamese: LONDON, [School of Oriental Studies].

Sinhalese, Tamil, and Telugu: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.

Slavonic Languages, other than Russian: CAMBRIDGE; LONDON, [King's Coll.]; Univ. Coll., Nottingham.

Slavonic Philology, Comparative: LONDON, [King's Coll.].

Swahili: CAMBRIDGE; LONDON, [School of Oriental Studies].

Swedish, v. Scandinavian.

Talmudic: CAMBRIDGE.

Tibetan: LONDON, [School of Oriental Studies].

Turkish: CAMBRIDGE; LONDON, [School of Oriental Studies].

Welsh: LIVERPOOL; WALES, [the 4 Univ. Colls.].

Yoruba: LONDON, [School of Oriental Studies].

Comparative Philology: CAMBRIDGE; LONDON, [University Coll., King's Coll., School of Oriental Studies]; OXFORD. ABERDEEN; EDINBURGH; GLASGOW. TRINITY COLLEGE, DUBLIN.

Imperial Latin: MANCHESTER.

Phonetics: LONDON, [University Coll.]; Univ. Coll., Nottingham.

SCIENCE, APPLIED SCIENCE, COMMERCE, SOCIOLOGY

Aero-dynamics: LONDON, [Imperial Coll.].

Animal Pathology: CAMBRIDGE.

Aviation and Aero-Engineering: CAMBRIDGE; LONDON, Imperial Coll., East London Coll.

Colloidal Chemistry: BRISTOL; MANCHESTER.

Cytology: LIVERPOOL.

Economic Entomology: LIVERPOOL; LONDON, [Imperial Coll.]. EDINBURGH.

Ethnology and Social Anthropology: CAMBRIDGE; LONDON, [School of Econ., University Coll.]; OXFORD.

Eugenics: LONDON, [University Coll.].

Genetics: CAMBRIDGE; OXFORD. EDINBURGH.

Geodesy: CAMBRIDGE.

Meteorology: CAMBRIDGE; LONDON, [Imperial Coll.]; OXFORD.

Military Science: BRISTOL; CAMBRIDGE; DURHAM; LONDON; OXFORD; Univ. Coll., Nottingham.

Oceanography and Fisheries: LIVERPOOL; WALES, [Univ. Coll., Aberystwyth]. ABERDEEN.

Physiology of Animal Nutrition: CAMBRIDGE. ABERDEEN.

Plant Pathology: LONDON, [Imperial Coll.].

Protozoology: LONDON, [Lister Institute, King's Coll]. EDINBURGH.

Psychology, Comparative: ABERDEEN.

,, *Experimental*: CAMBRIDGE; LONDON, [University Coll., King's Coll., Bedford Coll.]; MANCHESTER. EDINBURGH; GLASGOW.

,, *Industrial*: LONDON, [School of Economics].

Railway Economics: MANCHESTER; LONDON, [School of Economics].

Spectroscopy: LONDON, [Imperial Coll., King's Coll.]; OXFORD.

Statistics: CAMBRIDGE; LONDON, [University Coll., School of Economics]. ABERDEEN; EDINBURGH.

Sociology: LONDON, [School of Economics]; LIVERPOOL.

Social Study: BIRMINGHAM; LEEDS. EDINBURGH; GLASGOW; ST. ANDREWS, [Univ. Coll., Dundee].

Household Science: LONDON, [King's Coll. Household and Social Sci. Dept.]; WALES, [Univ. Coll., Cardiff]; Univ. Coll., Reading.

LAW

Law, International: CAMBRIDGE; LIVERPOOL; LONDON, [School of Economics]; OXFORD. ABERDEEN; EDINBURGH; GLASGOW.
„ *Commercial*: LONDON, [School of Economics].
„ *Comparative*: LONDON, [University Coll.].
„ *Indian*: CAMBRIDGE; LONDON, [School of Oriental Studies]; OXFORD.
„ *Industrial*: BIRMINGHAM.
„ *Roman-Dutch*: CAMBRIDGE; OXFORD; LONDON.
„ *Russian, and Economics*: LONDON, [King's Coll., School of Economics].
„ *Scots*: The Scottish Universities.

MEDICINE

Cancer Research: LONDON, [Middlesex Hospl.]; MANCHESTER. ABERDEEN.
History of Medicine: LONDON, [University Coll.]. EDINBURGH.
Medical Entomology: CAMBRIDGE.
Medical Statistics: LONDON, [University Coll.].
Parasitology and Helminthology: CAMBRIDGE; LIVERPOOL; LONDON, [School of Tropical Med.]. ABERDEEN; EDINBURGH.
Radiology and Electrology: CAMBRIDGE; LIVERPOOL.
Tropical Medicine: LIVERPOOL; LONDON, [Royal Army Med. Coll., School of Tropical Med.]. EDINBURGH.
Tropical Surgery: LONDON, [School of Tropical Med.].
Tuberculosis: WALES, [Univ. Coll., Cardiff]. EDINBURGH; GLASGOW.

TECHNOLOGY

Brewing: BIRMINGHAM.
Chemical Engineering: LONDON, [University Coll., Imperial Coll.].
Colour Chemistry, Bleaching, Dyeing: LEEDS; MANCHESTER; Univ. Coll., Nottingham. GLASGOW, [Royal Technical Coll.].
Economic Mineralogy: LONDON, [Imperial Coll.].
Electro-chemistry: MANCHESTER.
Electrotechnics: MANCHESTER; LONDON, [Imperial Coll.]. BELFAST, [Municipal Coll.].
Engineering, Automobile: BRISTOL.
„ *Dock and Harbour*: LIVERPOOL. TRINITY COLLEGE, DUBLIN.
„ *Marine*: DURHAM, [Armstrong Coll.]; LIVERPOOL. GLASGOW.
„ *Municipal and Sanitary*: LIVERPOOL; LONDON; MANCHESTER. GLASGOW.
„ *Railway*: LIVERPOOL; LONDON, [Imperial Coll.].

Engineering, Refrigeration: LIVERPOOL.

„ *Water Supply and Irrigation*: MANCHESTER.

Fuel, Coal and Gas: LEEDS; LONDON, [Imperial Coll.]; MANCHESTER, [Coll. of Technology]; SHEFFIELD; Univ. Coll., Nottingham. GLASGOW.

Glass: SHEFFIELD.

Leather: LEEDS.

Optical Engineering and Applied Optics: LONDON, [Imperial Coll.].

Photography: MANCHESTER.

Rubber: LONDON, [Northern Polytechnic].

Sugar: GLASGOW, [Royal Technical Coll.].

Textiles: LEEDS; MANCHESTER; Univ. Coll., Nottingham. GLASGOW, [Royal Technical Coll.]. BELFAST, [Municipal Coll.].

Woods and Fibres: LONDON, [Imperial Coll.].

XXVIII

ANNOUNCEMENTS REGARDING VACATION COURSES, 1925

The practice of holding Summer Courses in University towns in the United Kingdom increases year by year. In 1924 there were courses organized by or in connexion with the Universities of Bristol, Cambridge, Leeds, Liverpool, London, Oxford, Wales, Edinburgh, Glasgow, and Dublin. In addition, courses in connexion with University Tutorial Classes were held at nine centres. The Board of Education publishes in April lists of such courses, and of many other summer courses unconnected with Universities, and a list of Holiday Courses on the Continent. Regarding some of these, information will be found in Appendix XXV. Only a few announcements had been received at the time of going to press regarding vacation courses, for 1925. These are summarized below:

BRISTOL. University Tutorial Classes Committee's Summer School at Clifton, July 24–Aug. 8. Geography, Social History and Polit. Science, English Lit., Psychology. Board and Lodging £2: 5s. per week. Address, The Organizing Secy., 27 Morgan St., St. Paul's, Bristol.

DURHAM. *College of Medicine, Newcastle-upon-Tyne.* In the early part of the Summer Vacation an intensive course of a fortnight. Clinical instruction in Medicine, Surgery, and Pathology, lectures and demonstrations dealing with recent advances in Physiology, and a course of laboratory instruction for general practitioners in Clinical Physiology and Pathology. Fee 5 guineas.

LEEDS. Yorkshire Summer School of Geography under direction of the Reader in Geog. in the University, during August, probably at Redcar. Address, The Secy. of the School.

Summer School for Yorkshire tutorial class students during August, probably at Arnside.

LIVERPOOL. Summer School of Spanish at Santander, Spain, Aug. 6 to Sept. 3; optional preliminary course by Prof. Allison Peers, July 20 to Aug. 3. Classes in composition, reading, dictation, and conversation, conducted in Spanish, 8.30 to 10.30 daily. Address, Prof. E. Allison Peers, The University, Liverpool.

LONDON. The University Holiday Course for Foreign Students, July 17 to Aug. 13, in the buildings of King's College for Women Household and Social Science Department, Campden Hill. Classes for conversation and reading, exercises in practical phonetics, short courses and single lectures on such subjects as Contemporary English Writers, the Government of Britain, the History of London, and English Architecture. Parties of students will be taken to Westminster Abbey and other places of interest in London, and there will be excur-

sions to places round London, on the Thames, Cambridge, etc. The fee for the whole Course is £5, and arrangements can be made, if desired, for accommodation.

University College vacation courses in Phonetics : (1) July 24 to Aug. 14. Spoken English and English Phonetics for foreign students and those who propose to teach English to foreigners. Candidates may be admitted to the full course or for fortnight ending Aug. 7 or Aug. 14. (2) July 31 to Aug. 14. French Phonetics. Address, The Secy., University College, Gower St., W.C.1.

A Summer School of Librarianship will probably be held in Paris at some time during the long vacation.

MANCHESTER Extra-mural Department's Summer Courses in post-graduation Mathematics, Aug. 24 to Sept. 5, at Univ. College, Bangor. Alternative subjects : Atomic structure and the Quantum theory, Theory of Functions, Higher Geometry. Fee for course (20 lectures of one hour each) 3 guineas. Board and lodging for whole period 5 guineas. Address, Miss D. Withington.

OXFORD. Delegacy for Extra-mural Studies. Summer Meeting, Part I., July 31 to Aug. 10 ; Part II., Aug. 10 to Aug. 20. Main subject—The Drama, Ancient, Mediæval, and Modern ; also a special course with laboratory instruction on a Biological subject. Ticket £2 : 2s., or, for either part 30s. List of books for preparatory reading (price 4d.) and detailed programme will be ready in March. Address, Rev. F. E. Hutchinson, M.A., Acland House, Broad St., Oxford.

WALES. University College, Bangor Summer School, provided by Univ. Tutorial Classes Committees of Manchester, Belfast, and Bangor, July 4 to Aug. 22. Address, Mr. Eli Bibby, 377 Oxford Rd., Manchester.

Vacation School in Theology at Univ. College, Bangor, Sept. 21 to 26.

The Classical Assocn.'s annual meeting will take place at Bangor, week commencing April 13.

XXIX

COMPARISON OF STUDENT ENROLMENT AND DEGREES CONFERRED IN THE UNIVERSITIES IN THE BRITISH EMPIRE

Statistics for 1912–13 and 1922–23 are given in the 1924 issue of the *Yearbook*.

XXX

UNIVERSITY EXTENSION LECTURERS IN ENGLAND AND WALES

[The list shows in brackets the universities and colleges responsible for the lectures. Names of lecturers who are on the staffs of universities in any other capacity and whose names, therefore, are included in the main body of the *Yearbook*, are omitted.]

Abraham, L. A., B.A. (Lond.); Adamson, J., B.A., M.Litt. (Nottingham); Ainsley, Capt. A. M., M.A. (Lond.); Anderson, W. R., B.Mus., L.R.A.M. (Lond.); Andrew, J. B., B.Com. (Manc.); Angus, W. S. (Liv.); Ansell, W. H., F.R.I.B.A. (Lond.); Anstey, Mrs., B.Sc.(Lond.); Archer, A. B. (Liv.); Armstrong, W. E., M.A. (Camb.); Ashton, Miss L., M.A. (Manc.).

Babington, P. L., M.A. (Camb.); Baikie, Rev. J., F.R.A.S. (Ox.); Bailey, C. W., M.A. (Liv.); Bailey, G. P., M.A. (Ox.); Bailey, W. M., B.A. (Lond.); Baker, A. E. (Leeds); Ball, A. E., B.A. (Nottingham); Baskeyfield, G., F.R.C.O. (Ox.); Begg, Mrs. A. M. G. (Durh.); Bellot, H. H., M.A. (Lond.); Bertrand, F. (Liv.); Bloor, Rev. R. H. U., B.A. (Lond., Ox.); Boas, G., B.A. (Ox.); Bossavy, Mlle. (Lond.); Boyd, Miss W. (Birm.); Brearley, H., Mus.Doc. (Manc.); Brown, A. Barratt, M.A. (Lond.); Brown, H. M. (Liv.); Bruce, W., B.Sc. (Manc.); Bryan, F. W. (Nottingham); Burney, E. (Leeds); Burrows, H. R. (Bris.); Butler, H. D., B.A. (Liv.).

Caldwell, Miss S. J., M.A. (Durh.); Callière, Mlle. J. L. (Lond.); Cameron, Miss A. M., M.A. (Ox.); Campin, Miss (Camb.); Carlyle, Miss M. M., B.A. (Lond.); Carr, G. A. (Durh.); Cass, Bingley, M.A. (Nottingham); Chambers, J. D., B.A. (Nottingham); Coats, R. H. (Birm.); Cohen, J. L., M.A. (Camb.); Cohen, V., B.A. (Lond.); Cole, G. D. H., M.A. (Lond.); Collier, Miss F. (Manc.); Collins, A. C., M.A. (Lond.); Collis, J. S., B.A. (Lond.); Compton-Rickett, A., M.A., LL.D. (Lond., Ox.); Crosthwaite, Mrs. P. M. (Lond.); Cuthbertson, F. W. (Southampton).

Daft, F. E. (Sheff.); Dakyns, A. L., L.R.A.M. (Lond.); David, Illtyd, B.A., LL.B. (Swansea, Wales); Davies, D., Ph.D. (Wales); Davies, D. G., M.A. (Cardiff); Davies, G. (Birm.); de Vere, G. L. D. (Ox.); Dewhurst, Rev. A., M.A. (Lond.); Dexter, Miss, L.R.A.M. (Lond.); Dick, Stewart (Lond.); Draper, Mrs. S. M. (Lond.); Draper, Rev. W. H., M.A. (Camb.); Duncan, Rev. J., M.A. (Durh.); Dyson, H. V. D., B.A. (Ox.).

Edwards, I. ap. O., B.A. (Wales); Edwards, Rev. W., M.A. (Cardiff); Elliot, W., M.A. (Camb.); Emery, A. E. (Ox.); England, Rev. F. E., M.A., B.D. (Lond.); Epstein, M., M.A., Ph.D. (Lond.); Evans, D. E., B.A. (Cardiff).

Fisher, J. M. (Cardiff) ; Fletcher, Sir B., F.R.I.B.A. (Lond.) ; Fogerty, Miss, L.R.A.M. (Lond.) ; Forster, J. M. (Birm.) ; Fox, W. B. (Nottingham) ; Fraser, J. A., M.A., B.E.A. (Manc.).

Gaskell, P., R.B.A., R.E. (Lond.) ; Gawthorpe, W., B.A. (Sheff.) ; Gibson, G. W. (Leeds) ; Gilligan, A., D.Sc. (Camb.) ; Gitsham, E. (Leeds) ; Greenwood, A., M.P., B.Sc. (Lond.) ; Gregory, M. V. (Liv.) ; Grierson, G. K., M.A. (Nottingham) ; Griffiths, Rev. J., B.A., B.D. (Swansea) ; Griffiths, R (Cardiff) ; Griffiths, T. Hughes, M.A. (Wales).

Hadley, C. V. D., B.A. (Camb.) ; Hall, F., M.A., B.Com. (Manc.) ; Hamilton, H., M.A. (Birm.) ; Hannah, I. C., M.A. (Ox.) ; Harland, O. H. (Leeds) ; Harris, T. W., B.A. (Ox.) ; Harrod, R. F., B.A. (Lond.) ; Hayter, A. G. K., M.A. (Camb.) ; Heath, A. E. (Liv.) ; Henderson, T., Mus.Bac. (Durh.) ; Hesling, A., B.Sc. (Swansea) ; Hewat, Miss F. B., B.A. (Ox.) ; Hodson, Col. T. C. (Lond.) ; Holborn, I. B. S., M.A. (Ox., Camb.) ; Holden, H. S., M.Sc. (Nottingham) ; Holland, G. A. (Lond.) ; Holtby, Miss W., B.A. (Ox.) ; Horsburgh, E. L. S., B.A. (Ox.) ; Howarth, H. (Manc.) ; Howrie, R. J., M.A. (Sheff.) ; Hughes, H. D. (Durh.) ; Hughes, Miss M. W. (Camb., Lond.) ; Hurst, Rev. H., M.A. (Camb.) ; Hurst, S. R., B.A. (Ox.) ; Hutchinson, Rev. F. E., M.A. (Ox.) ; Hutchinson, R. W., B.A. (Camb.).

Isaacs, Mrs. S., M.A. (Lond.).

Jackson, Miss A. M., B.A. (Lond.) ; Jackson, S. F. (Manc.) ; Jenkins, G. (Manc.) ; Jewkes, J. (Manc.) ; Joad, C. E. M., B.A. (Lond.) ; John, Principal I. S., M.A. (Cardiff) ; Jones, A. G. (Cardiff) ; Jones, Caradog (Bangor) ; Jones, C. E. (Cardiff) ; Jones, E. J. (Wales) ; Jones, G. C. (Cardiff) ; Jones, G. P., M.A. (Liv.) ; Jones, J. (Cardiff) ; Jones, J. D. (Sheff.) ; Jones, J. W. (Liv.) ; Jones, R., D.Sc. (Lond.).

Kaines Smith, S. C., M.A. (Ox., Camb.) ; Kerman, Miss F., B.A. (Nottingham) ; Kimmins, C. W., M.A. (Camb.) ; King, E. R. (Birm.) ; King, H. (Liv.) ; King, J. S., B.Sc. (Nottingham).

Lambert, R. S., B.A. (Lond.) ; Latham, P. M. S., M.A. (Ox., Camb.) ; Lee, E. Markham, M.A., Mus.D., F.R.C.O. (Lond., Ox., Camb.) ; Lee, W. W. (Birm.) ; Leigh-Mallory, H. B., M.A. (Lond., Camb.) ; Lewis, J. (Birm.) ; Lewis, Rev. J. V., M.A., B.D. (Swansea) ; Lewis, M. M. (Nottingham) ; Lewis, Rev. W., B.A. (Wales) ; Lewis, W. M. (Cardiff) ; Lord, J. (Liv.).

Macalpine, B. I., M.A. (Ox.) ; Mace, C. A. (Nottingham) ; McCulloch F. J. (Birm.) ; Macfarlane, Mrs. (Lond.) ; McNabb, Rev. Vincent, O. P. (Lond.) ; Manchon, J. L., L. ès L. (Lond.) ; Marriott, Sir J. (Ox.) ; Matheson, Miss M. C. (Camb.) ; Menzies, A. C., B.A. (Ox.) ; Middlebrook, S., M.A. (Durh.) ; Mills, J. Travis, M.A. (Lond.) ; Mitchell, F. L. (Lond.) ; Morgan, H. (Wales) ; Morrox, W. L. (Exeter) ; Moulton, R. G., D.Ph. (Ox.).

Nabokoff, C. (Ox.) ; Neale, J. E., M.A. (Lond.) ; Newlove, J. G. (Camb.).

Oldham, H. Yule, M.A. (Camb.) ; Owen, J., M.A. (Cardiff) ; Owen, Rev. J. D. (Wales).

Parkyn, E. A., M.A. (Camb.) ; Parmiter, S. C., M.A. (Ox.) ; Parsons, D. J. F., B.Sc. (Lond.) ; Payne, Rev. G. A. (Manc.) ; Peate, I. C., B.A. (Wales) ; Peers, Prof. R., M.A. (Nottingham) ; Pinto, V. de Sola, M.A.

(Nottingham); Price, T. W. (Ox.); Pringle, W. H., M.A., LL.B. (Lond.); Pybus, Mrs. (Durh.).

Radford, A. (Nottingham); Rattray, R. F., M.A., Ph.D. (Camb., Nottingham); Rees, R. (Swansea); Rees, W., B.A. (Nottingham); Richards, D., M.A. (Cardiff); Richards, Rev. R. (Cardiff); Roberts, D. W., B.Sc. (Lond.); Roberts, E., B.Sc. (Durh.); Roberts, J. Slingsby, M.A. (Ox., Camb.); Roberts, R. S. (Wales); Roper, J. (Sheff.); Ross, D. A., B.A. (Ox.); Rowse, H. C. (Leeds).

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