

And within recent years the Harvard Graduate School of Business Administration, founded in 1908, next to the last year of Mr. Eliot's term, has become one of the important professional schools.

The raising of the entrance requirements of universities, which has led to a corresponding raising of the standards of graduate schools, and the introduction of choice in entrance requirements, have had a nation-wide influence under President Eliot's leadership. As chairman of a committee of ten of the National Education Association in 1890, he exerted a strong influence on secondary education throughout the country.

In the course of his life President Eliot has received many honors from European governments. He is an officer of the Legion of Honor of France; a grand officer of the Crown of Italy; a member of the Imperial Order of the Rising Sun of Japan, and a member of the Order of the Crown of Belgium. He is also a member of the Moral and Political Science Academy of the French Institute; a member of the British Academy, a fellow of the American Academy of Arts and Sciences, a member of the American Philosophical Society, honorary president of the National Conservation Association, president of the Massachusetts Society of Social Hygiene, and past-president of the National Education Association and of the American Association for the Advancement of Science.

SCIENTIFIC NOTES AND NEWS

SERVICES in memory of Jacques Loeb, who died suddenly in Bermuda on February 12, were held at the Rockefeller Institute for Medical Research on the afternoon of Sunday, February 17. Addresses were made by Dr. Simon Flexner, Professor W. J. V. Osterhout and Dr. William H. Welch.

IN memory of George Lincoln Goodale, professor of botany at Harvard University from 1873 until his retirement as professor emeritus in 1909, half of a gift of \$100,000 made to the university by an anonymous donor will be used to establish a George Lincoln Goodale Fund, the income of which is to be used to meet the current expenses of the Botanical Museum. The other half will be added to the permanent fund of the Arnold Arboretum, the income of which is also to be used for current expenses.

At the session of the Paris Academy of Sciences of January 2, M. Guillaume Bigourdan assumed the presidency for the year 1924, succeeding M. Haller.

THE gold medal of the Royal Astronomical Society has been awarded to Professor A. S. Eddington, for his work on star-streaming, on the internal constitution of a star and on generalized relativity.

At the St. Louis meeting of the Federation of Biological Societies, Professor A. J. Carlson, of the

University of Chicago, was elected president of the American Physiological Society; Dr. Philip A. Shaffer, of Washington University Medical School, president of the American Society of Biological Chemistry, and Dr. Aldred S. Warthin, professor of pathology in the University of Michigan, president of the American Pathological Society.

DR. FELIX LAGRANGE, professor of clinical ophthalmology in the University of Bordeaux, has been elected a correspondent of the Paris Academy of Sciences in the section of medicine and surgery.

SIR CHARLES SHERRINGTON, Dr. J. H. Drysdale, Dr. F. J. Poynton, Dr. J. H. Abram and Professor T. Wardrop Griffith have been elected councillors of the Royal College of Physicians, London.

At the annual meeting of the New York Pathological Society, Dr. William H. Woglom was elected *president*; Dr. George L. Rohdenburg, *vice-president*; Dr. Francis Carter Wood, *treasurer*, and Dr. Leila C. Knox, *secretary*.

At the annual meeting of the New York Academy of Medicine the following chairmen were elected for the sections: ophthalmology, Dr. Ben Witt Key; orthopedic surgery, Dr. Sigmund Epstein; medicine, Dr. John H. Wyckoff, Jr.; genito-urinary surgery, Dr. Julius J. Valentine; historical medicine, Dr. Leon Pierce Clark.

E. F. W. ALEXANDERSON, consulting engineer of the General Electric Company and chief consulting engineer of the Radio Corporation of America, has been awarded the Order of the Polonia Restituta by the Polish government in recognition of his services in connection with the building of Poland's new radio station near Warsaw.

PROFESSOR HEINRICH RIES, of Cornell University, has been elected as representative of the Geological Society of America on the National Research Council.

THE Messel medal of the Society of Chemical Industry has been awarded to Lord Leverhulme. The Messel medal is given to an eminent man distinguished either in chemical science or in chemical industry, who is asked to deliver the Messel Memorial Lecture at the annual meeting of the society. The first award was made in 1922 to Professor Henry E. Armstrong, F.R.S., who delivered his lecture at the annual meeting in Glasgow.

THE council of the British Institution of Electrical Engineers has made the third award of the Faraday medal to Dr. S. Z. de Ferranti, a past president of the institution. The Faraday medal is awarded either for notable achievement in electrical engineering or for conspicuous service to the advancement of electrical science, without restriction as regards nationality.

THE king of Italy has decorated a number of French physicians in honor of the Pasteur centenary, conferring the grand cross of the Order of the Crown on Emile Roux, director of the Pasteur Institute, and on M. Paul Strauss, minister of hygiene, while Drs. Chauffard, Pottevin and Honnorat, A. Calmette, L. Martin, Borrel, Roger, Achard, Salimbeni, F. Rathery and G. Poix were made officers of the order. Drs. Vincent, F. Widal, P. Carnot, V. Bérard, and René and Pasteur Vallery-Radot were made officers of the Order of Saints Maurice and Lazarus. The list includes the officers of the Pasteur institutes at Paris and Strasbourg, professors in the universities and the medical descendants of Pasteur and several senators.

DR. GEORGE W. CRILE, for twenty-three years professor of surgery, Western Reserve University Medical School, and house surgeon of the Lakeside Hospital, Cleveland, has resigned, effective on July 1. Dr. Crile will devote his time to research work and private practise at the Cleveland Clinic and Hospital. Dr. Eliot C. Cutler, Peter Bent Brigham Hospital, Boston, will succeed Dr. Crile in both positions.

DR. CHARLES SHEARD, Ph.D. (Princeton), has accepted the position of chief of the section of physics and bio-physical research at the Mayo Clinic, Rochester, Minn., and expects to take up the work early in March. He was the first professor and director of the work in applied optics at the Ohio State University. In 1919 he became connected with the American Optical Company as head of the department of ocular and professional interests and in general charge of many of the scientific activities of this company. He has also been the editor of the *American Journal of Physiological Optics* since its founding in 1920.

DR. EMMETT CARVER has recently joined the staff of the Research Laboratory, Eastman Kodak Company. Dr. Carver is son of the well-known economist of Harvard University, and received his graduate and undergraduate training at Harvard. His graduate work was done under Professor Richards. During the war he held command as captain in the Intelligence Division, and for two years following a National Research Council fellowship. For the last three years he has been on the chemical faculty of the University of Illinois where he taught physical chemistry.

DR. ROBERT D. CURTIS, Medical School of Harvard University, Boston, has been appointed director of child hygiene for the Community Health Association and has been given a year's leave of absence from the Massachusetts General Hospital to carry on the work.

DR. ENOS H. BIGELOW, president of the Massachu-

setts Medical Society, has been appointed director of the division of communicable diseases in the state health department.

DR. W. V. TOWER, entomologist of the Porto Rico Federal Station, has resigned to accept a position with the Porto Rican tobacco company.

DR. W. A. MURRILL recently sailed for Buenos Aires to visit the botanists of Argentina and secure botanical specimens for the herbarium of the New York Botanical Garden.

SIR ARTHUR SHIPLEY, vice-chancellor of the University of Cambridge, chairman of the Imperial College of Tropical Agriculture in Trinidad, was a delegate to the West Indian Agricultural Conference meeting in Jamaica at the beginning of the month; he will subsequently visit the United States.

THE program of the Philosophical Society of Washington on February 23 was: C. V. Hodgson: "Structural improvements in modern micrometer theodolites"; W. R. Gregg: "The relations between free air temperatures and wind direction."

PROFESSOR C. G. BARKLA will deliver the seventh Silvanus Thompson Memorial Lecture of the Röntgen Society at the Institution of Electrical Engineers, London, on April 1.

AT the annual meeting of the Royal Astronomical Society held on February 8, Sir Frank Dyson, Professor H. H. Turner and Mr. Evershed spoke on the progress of astronomy, and the president, Dr. J. L. E. Dreyer, gave a short address on the desirability of a new edition of Isaac Newton's works. After the annual general meeting Mr. F. W. Aston gave an address on isotopes.

PROFESSOR HENRY CARMICHAEL, consulting chemist, formerly professor of chemistry at Bowdoin College, died on January 29, at the age of seventy-seven years.

PROFESSOR MARCUS HARTOG, emeritus professor of zoology at University College, died at Cork on January 21.

GUSTAF ENESTRÖM, of Stockholm, known for his work on the history of mathematics, has died at the age of seventy-one years.

PROFESSOR R. R. THOMPSON, professor of oil mining in the University of Birmingham, died on January 24, aged thirty-nine years.

WILLIAM MARK PYBUS, Esq., an eminent English lawyer who devoted his spare time to natural history, mainly to ornithology, died on January 4 at the age of seventy-two years.

M. STEPHAN, honorary director of the Marseilles Observatory and correspondent of the section of

astronomy of the Paris Academy of Sciences, has died at the age of eighty-seven years.

IN honor of the three hundred and sixtieth anniversary of the birth of Galileo, on February 15, 1564, the Boston Public Library has arranged an exhibition of the earliest and rarest editions of Galileo's works in the Barton room.

WE learn from *Nature* that arrangements are being made by a committee convened by the Royal Society to celebrate on June 26 the centenary of Lord Kelvin's birth. The committee is composed as follows: Sir Richard Glazebrook (chairman), Professor F. O. Bower (Royal Society of Edinburgh), Mr. W. R. Cooper (Physical Society), Sir John Dewrance (Institution of Mechanical Engineers), Mr. D. N. Dunlop (hon. secretary), Mr. F. Gill (Institution of Electrical Engineers), Sir Donald MacAlister (vice-chancellor of the University of Glasgow), Sir Charles Morgan (Institution of Civil Engineers), The Duke of Northumberland (Institution of Naval Architects), Dr. E. C. Pearce (vice-chancellor of the University of Cambridge), Dr. Alexander Russell (Institution of Electrical Engineers), Mr. F. E. Smith (Royal Society). A large number of Dominion, American and foreign men of science and engineers will be attending conferences at the British Empire Exhibition at that time, and July 10 and 11 have been selected as convenient dates for the Kelvin centenary celebrations. These will include a meeting for the receipt of addresses from delegates, at which Sir J. J. Thomson will deliver a memorial oration, and a dinner at which the Rt. Hon. Earl Balfour has promised to preside.

THE one hundred and twenty-fifth regular meeting of the American Physical Society will be held in Schermerhorn Hall, Columbia University, New York, on February 23.

WE learn from *Nature* that on January 23 Mr. W. B. Hardy formally declared open a laboratory for research in colloid chemistry and physics which has been founded in the University of Manchester by the generosity of a number of Lancashire firms. This laboratory, which has been named after Thomas Graham, the founder of the science of colloids, consists of two large and three small rooms, and is being specially equipped for the proposed course of research. It has been put in the charge of Mr. D. C. Henry, of Trinity College, Cambridge, who has been for two years a lecturer in chemistry at the University of Manchester.

THE International Congress of Mathematicians will hold its meetings at Toronto from August 6 to 13.

THE Fourth Congress of Industrial Chemistry under the auspices of the Société de Chimie Industrielle will be held at Bordeaux, France, from June 15 to 20.

It is hoped that all of the American delegates to the International Union of Pure and Applied Chemistry at Copenhagen will be able to attend the meeting. American chemists desiring to present papers at this congress should send in a request for an application blank to Dr. J. E. Zanetti, Chairman, Division of Chemistry and Chemical Technology, National Research Council, Washington, D. C.

AT the medical congress held under the auspices of the British Medical Association in Melbourne opportunity was taken to open the new anatomy department of the University of Melbourne.

A SCHOOL of geographical surveying and field astronomy has recently been organized under the auspices of the American Geographical Society, which will provide the means whereby training may be obtained in the methods of accurate surveying, particularly for purposes of exploration.

THE trustees of Mount Sinai Hospital, New York City, have ratified the program for a \$1,500,000 home and training school for nurses, and have themselves subscribed \$735,000. A pledge of \$200,000 was made by George Blumenthal, president of the hospital. The training school will occupy the south side of Ninety-ninth Street, opposite the hospital.

THE Natural History Museum, South Kensington, has been presented by Mrs. Wood, widow of the Reverend Theodore Wood, with a named collection of 14,000 specimens of British coleoptera, and 3,000 specimens of varieties from localities outside Britain. The collection includes a number of specimens which fill gaps in the study series in the Insect Room.

UNIVERSITY AND EDUCATIONAL NOTES

THE University of Naples, founded in 1224, will celebrate this year its seventh centennial.

DURING December of this last year, the National Southeastern University at Nanking, China, lost by fire its most important building which housed the library and the departments of agriculture, biology, education and engineering. The loss of the library was the greatest misfortune. Publications, especially those dealing with education and science, are urgently needed and gifts will be most welcome.

PLANS for the erection of a wing to the University of Pennsylvania Medical School to house the laboratories of anatomy and physiologic chemistry, have been submitted to the board of trustees by Dean William Pepper. This addition is made possible by the recent gift of the Rockefeller Foundation and the General Education Board, which insures the univer-