

uncommonly successful and versatile professional practice, he devoted himself with simplicity, faith and enthusiasm to his new tasks, illuminating them by his experience, and carrying to his continuing general practice the inspiration of his university attachment.

As his interest in public affairs ranged from the minutiae of local administration to projects for world sanitation under the League of Nations, so in the university his services were unique in their breadth: to undergraduates he taught municipal engineering; to engineers, the principles of sanitary science; and to graduate physicians, the environmental factors in the safeguarding of the public health. He had the faculty of adapting both the spoken and the written word to the audience he sought to reach; with equal effectiveness he wrote for the popular magazine, for the technical periodical and assembled his learning in standard treatises.

A leader among the pioneers who, by applying the discoveries of Pasteur, reconstructed sanitary science upon a biological basis, he was withal a modest man, youthful in his enthusiasm, simple in his habits of life, open, approachable and affectionate. By his students, colleagues and professional associates, he will always be held in friendly remembrance.

HECTOR J. HUGHES,
WILLIAM B. MUNRO,
EDWIN B. WILSON,
Committee.

SCIENTIFIC NOTES AND NEWS

THE second annual prize of the American Association for the Advancement of Science has for this year been divided and awarded as two prizes of five hundred dollars each, to Dr. L. R. Cleveland, of the Johns Hopkins School of Hygiene and Public Health, for his work on the physiology of termites and their parasites, and to Dr. Edwin P. Hubble, of the Mount Wilson Solar Observatory, for his work on the nebulae.

DR. MICHAEL I. PUPIN, professor of electromechanics at Columbia University and president of the American Association for the Advancement of Science, has been nominated for president of the American Institute of Electrical Engineers.

DR. JAMES F. KEMP, professor of geology at Columbia University, at the December session of the council of the Geological Society of Belgium, was elected a foreign correspondent.

THE gold medal of the Royal Astronomical Society has been awarded to Sir Frank Dyson, astronomer royal, for his general contributions to astronomy, and in particular for his researches on the proper motions of stars. The medal will probably be presented at the regular meeting of the society on June 12.

THE Institution of Electrical Engineers, London, has made the fourth award of the Faraday medal to

Sir Joseph J. Thomson, an honorary member of the institution, and Master of Trinity College, Cambridge.

THE Institution of Gas Engineers, England, has nominated Dr. Charles Carpenter, president of the South Metropolitan Gas Company, for the award of its Birmingham gold medal, awarded for services rendered in the science and practice of gas engineering.

THE Royal Society at London has conferred its gold medal on Dr. Albin Haller, professor of chemistry at Nancy, according to the *Journal* of the American Medical Association.

THE T. Kocher prize at the University of Bern has been given to Professor Baltzer to enable him to continue research on heredity and predetermination of sex.

PROFESSOR WARREN D. SMITH, head of the department of geology in the University of Oregon, was recently elected president of the Cordilleran section of the Geological Society of America.

DR. MAXIMILIAN TOCH has been appointed chairman of the patent committee of the American Institute of Chemical Engineers.

ROBERT RIDGWAY, of New York, has been elected president of the American Society of Civil Engineers.

DR. WALTER L. BIERRING, Des Moines, Iowa, has been elected by the directorate of the Alpha Omega Alpha, honorary medical fraternity, to the presidency of this organization for a term of six years. Dr. Bierring succeeds Dr. John L. Heffron, of Syracuse, New York, who was killed in an automobile accident last September.

DR. SOLON I. BAILEY, Phillips professor of astronomy at the Harvard Observatory since 1912, and for thirty-seven years a member of the Harvard faculty, has retired.

PROFESSOR JOSEPH P. NAYLOR, head of the department of physics at De Pauw University, will retire from active service next June. He will continue to do research work in the university laboratory.

SIR HAROLD STILES has resigned the chair of clinical surgery at the University of Edinburgh.

DR. J. E. LILIENFELD, professor of physics at the University of Leipzig, on an extended leave of absence, has affiliated himself with the American Bosch Magneto Corporation as chief physicist in charge of radio research and development work—a new division of the corporation.

PROFESSOR CARL C. FORSAITH, of the New York State College of Forestry at Syracuse University, has accepted an offer from the English government through the Imperial Forestry Institute at the Uni-

versity of Oxford to organize a department of wood technology at the university.

DR. SEBASTIAN LOMANITZ, formerly chemist of government and state experiment stations in Mexico, and more recently engaged in graduate research work at Rutgers College, has been appointed chemist to the Tropical Plant Research Foundation for service on sugar cane problems in Cuba.

DR. WILLIAM HALE CHARCH and Dr. John Dorman McBurney have accepted positions in research departments of the E. I. duPont de Nemours and Company.

M. L. HAMLIN, formerly research fellow and assistant professor of chemistry, Duke University, Durham, N. C., has joined the technical staff of the Beech Nut Packing Company, Canajoharie, N. Y., as research chemist.

DR. ALBERT ERNEST JENKS, professor of anthropology, on sabbatic leave from the University of Minnesota, sailed on January 28 to spend the remainder of the year in study and research in Europe. The first half of the year was spent in Washington. Dr. Jenks returns the last of June to join the faculty of the University of California for its Southern Branch summer session in Los Angeles.

PROFESSOR HERBERT OSBORN, of the University of Ohio, will spend February and March in Cuba, for the Tropical Plant Research Foundation, to study leaf hoppers occurring on sugar cane and other plants there.

PROFESSOR SHUNSUKE KUSANO, professor of botany, Imperial University of Tokyo, recently visited the Missouri Botanical Garden.

CAPTAIN ROALD AMUNDSEN, the Arctic explorer, who is going to attempt to fly across the North Pole this summer, sailed for Europe on February 4. It is reported that the money for the expedition has been subscribed.

DR. WILLIAM F. DURAND, president of the American Society of Mechanical Engineers, left New York City, February 7, on a trip which will take him to the Pacific Coast and back by March 10. He will visit local sections and student branches of the society in St. Louis, Kansas City and Columbia, Missouri; Lawrence, Kansas; Lincoln and Omaha, Nebraska; Denver, Fort Collins and Boulder, Colorado; Salt Lake City, Reno, San Francisco, Houston, New Orleans, Baton Rouge, Memphis and Louisville.

PROFESSOR FLOYD K. RICHTMYER, of the department of physics at Cornell University and national president of Sigma Xi, left Ithaca on January 25 for a journey to the Pacific Coast, where he will take part in the installation of a new chapter at the California

Institute of Technology, Pasadena. On his way Dr. Richtmyer will address meetings of local chapters at a number of western universities.

DR. WILLIAM G. MACCALLUM, professor of pathology in the Johns Hopkins University, gave two lectures at the Medical School of the University of Buffalo, January 22 and 23, on the result of recent research as to the causes and treatment of acute rheumatism.

PROFESSOR F. R. MOULTON, of the University of Chicago, has given recent lectures as follows: December 10, at Western Reserve University, the McBride lectures on recent astronomical developments; December 16, at the University of Illinois, before the Mathematics Club a lecture on continuity, and at the founders' day banquet a lecture on recent progress in cosmogony; on January 14, at the University of Indiana, at the convocation a lecture on other worlds than ours, and before the Sigma Xi a lecture on recent cosmogonies.

DR. JEROME ALEXANDER has given the following addresses in Canada: January 23, at University of Toronto, before the local section of the Society of Chemical Industry, on "Packing house products." January 26, at Victoria Museum, Ottawa, before the local section of the Society of Chemical Industry, on "Milk and milk products." January 27, at Queens University, Kingston, on "Applications of colloid chemistry in medicine and technology." January 28, at McGill University, Montreal, on "Colloid chemistry."

DR. HERBERT E. IVES, of the Bell Telephone Laboratories, Inc., New York, lectured on "The transmission of pictures by telephone," before the Purdue University Chapter of Sigma Xi, on January 28, and before the Detroit Engineering Society and the local section of the Institute of Electrical Engineers on January 30.

DR. KURT KOFFKA, of the University of Giessen, will give a series of twelve lectures on the Jacob H. Schiff foundation at Cornell University twice a week beginning February 16. Dr. Koffka's subject will be the psychology of *gestalt* and its relation to other sciences.

DR. WILDER D. BANCROFT, of Cornell University, gave a lecture at the Franklin Institute, Philadelphia, on "Metallic luster," on January 29.

ON January 17, Professor Chandrashekara V. Raman, F.R.S., of the University of Calcutta, delivered an address to the Royal Canadian Institute, Toronto, on the subject "Some Indian contributions to science." On January 24, Professor Dayton C. Miller,

of the Case School of Applied Science, Cleveland, delivered an address to the institute on the subject "Ether-drift and the theory of relativity."

DR. W. F. FARAGHER, of the Mellon Institute, Pittsburgh, delivered two lectures on distillation before the students in chemical engineering at Columbia University, January 12 and 13.

ON January 20, Dr. Ellwood Hendrick lectured before the Swarthmore chapter of Sigma Xi on "The sense of smell."

DR. ARTHUR GRAHAM HALL, formerly professor of mathematics at the University of Michigan, died on January 10, aged fifty-nine years.

PROFESSOR EPHRAIM MILLER, emeritus professor of mathematics at the University of Kansas, died recently at the age of ninety-one years.

DR. E. S. JOHONNOTT, for many years professor of physics at Rose Polytechnic Institute, Terre Haute, Indiana, was instantly killed on January 2, when his automobile was crushed by an interurban car.

DR. WILLET G. MILLER, provincial geologist of Ontario and president of the section of geology of the British Association for the Advancement of Science, died on February 5, aged fifty-eight years.

M. L. HOLMAN, retired mechanical engineer and past president of the American Society of Mechanical Engineers, died on January 4, aged sixty-four years.

NATHANIEL S. KEITH, electrometallurgical engineer and one of the founders of the American Institute of Mining and Metallurgical Engineers, died on January 27, aged eighty-six years.

SIR JAMES MACKENZIE, distinguished English physician and heart specialist, died on January 26, aged seventy-one years.

SIR GUILFORD MOLESWORTH, eminent British engineer, died on February 2 at the age of ninety-six years.

WILLIAM WHITAKER, F.R.S., the distinguished English geologist, died on January 15, aged eighty-eight years.

DR. JULIUS MORGENROTH, professor at the Robert Koch Institute for the study of infectious diseases in Berlin, known for his work on immunity, died on December 20 at the age of fifty-three years.

THE death is announced of Dr. Loring W. Bailey on January 10 at the age of eighty-five years. A correspondent writes: Dr. Bailey had an extraordinary career in educational science. For 64 years his name was enrolled on the faculty list of the University of New Brunswick, a record which probably has not been surpassed. For 49 years of this time he was in

active service as professor in charge of the department of natural science. For a long period Dr. Bailey was provincial geologist of New Brunswick and also maintained a connection with the Geological Survey of Canada. His writings on the geology of his province are numerous and important.

AT the recent meeting of the American Society of Zoologists, the following officers were elected for the ensuing year: *President*, C. R. Stockard, Cornell University Medical College; *vice-president*, C. R. Moore, University of Chicago; *secretary*, D. E. Minnich, University of Minnesota; *treasurer*, L. B. Arey, Northwestern University Medical School.

THE Philadelphia Pathological Society has elected the following officers for 1925: *President*, E. B. Krumbhaar; *vice-president*, E. L. Opie; *secretary-treasurer*, B. Lucké; *recording secretary*, M. McCutcheon; *curator*, F. W. Konzelman.

AT the last meeting of the Philippine Scientific Society the following officers were elected: *President*, Dr. Leopoldo A. Faustino; *vice-president*, Dr. Amando Clemente; *secretary-treasurer*, Dr. Vicente G. Lava; *councilors*, Mr. Antonio D. Alvir, Dr. Nicamor G. Teodoro and Dr. Constancio Pacifico Rustia. The annual meeting will be held in July in Manila at which scientific papers dealing particularly with Philippine problems will be presented.

THE alumni chapter of Sigma Xi of the University of Pittsburgh held a meeting on January 19. The following program was given by the department of mathematics: "Depreciation," by Dr. J. S. Taylor; "Some special types of collineation groups," by H. M. Culver; "Magic squares and circles," by A. G. Montgomery; "Non-euclidean and higher dimensional geometries," by Dr. K. D. Swartzel; "Scientific research and the statistical method," by F. A. Foraker. The Mellon Institute will present a program on Monday, February 16.

THE twentieth annual meeting of the American Association of Museums will be held in St. Louis, Missouri, from May 17 to 21. The Association of Art Museum Directors is planning to meet a few days earlier.

THE Baltimore Safety Conference was held on Friday, January 23, at the Emerson Hotel, Baltimore, Maryland. The meeting was under the auspices of the American Council of Safety Engineers, the engineering section of the National Safety Council and the Baltimore Safety Council. Special attention was given methods of practical accident prevention; aspects of plant design affecting safety, such as illumination, layout and electric appliances; and in-

dustrial safety from the standpoint of the surgeon, foreman and workman.

THE Pennsylvania chapter of the Wild Flower Preservation Society through its president, Professor John W. Harshberger, has secured sixty-seven county chairmen, one for each of the sixty-seven counties in the state. These chairmen will furnish information on the subject of wildflower preservation to their local communities.

THE fifth year of the American School of Prehistoric Research in Europe, in charge of Dr. George Grant MacCurdy, of Yale University, will open in London on June 25. The itinerary of museums, excursions and excavations will include London and southern England; Brittany and Paris; Toulouse and the Pyrenees from Foix and Niaux by way of Tuc, Trois-Frères, Montespan, Lespugue and Lourdes to Isturitz; Madrid, Altamira, Castillo and La Pasiega; Périgueux, Les Eyzies and the caves of the Dordogne, including a month (August) of digging in the leased site of Castel-Merle at Sergeac; Neuchâtel, Berne, Interlaken and Zurich; Tübingen, Heidelberg and Bonn; Liège and Brussels. The summer term will end September 25.

At the annual meeting of the Board of Surveys and Maps of the Federal Government, held on January 13, Dr. William Bowie, chief of the division of geodesy of the U. S. Coast and Geodetic Survey, was reelected chairman of the board; Mr. A. D. Kidder, cadastral engineer of the General Land Office, was reelected vice-chairman, and Major J. H. Wheat, officer in charge of the map information office of the Board of Surveys and Maps, was elected secretary. The Board of Surveys and Maps was created by executive order of December 30, 1919, with a view to furnishing means of coordinating and correlating the work of the mapping and surveying organizations of the government and of making it possible to avoid duplication of effort. At its creation, 14 organizations had representation on the board, four other organizations being added later by executive order.

A GIFT from Martin A. Ryerson, trustee of the University of Chicago, has been made for continuing the experiments of Professor A. A. Michelson, head of the department of physics in the university, in making measurements of the velocity of light.

THE Boston Society of Natural History has received from the executors of the estate of William Brewster an amount approximating \$51,000, the income of which is to be used for the purchase of birds and the publication of papers relating to ornithology.

By the will of the late Mrs. Kate S. Richardson, of New Haven, the Peabody Museum at Salem will receive \$100,000.

UNIVERSITY AND EDUCATIONAL NOTES

GROUND was broken on January 31 for the \$10,000,000 Columbia-Presbyterian medical center, which is to be built on the twenty-two-acre site at Broadway and 168th Street, New York. The program included addresses by Nicholas Murray Butler, president of Columbia University, and Dr. C. Floyd Haviland, chairman of the New York State Hospital Commission.

ON January 24 the cornerstone of the new Marion Law Memorial Hall of Geology and Biology at Cornell College, Iowa, was laid with fitting ceremonies. In addition to the Law Memorial Building, a large wing is being built to house the department of physics.

THE University of Colorado School of Medicine formally dedicated the new medical school and hospital buildings on the campus in Denver on January 23.

DEAN ROSCOE POUND, of the Harvard School of Law, has declined the offer of the University of Wisconsin to become president of that institution.

DR. IRVING SAMUEL CUTTER, for nearly ten years dean of the College of Medicine at the University of Nebraska, has been appointed dean of the Medical School of Northwestern University. Dean Cutter succeeds Dr. Arthur I. Kendall, who resigned last year to take up research and laboratory work with Washington University.

PROFESSOR WOLFGANG KOEHLER, head of the department of psychology in the University of Berlin, will be at Clark University as visiting professor of psychology from February 1, 1925, until February 1, 1926.

DR. JOHN H. BRADLEY, JR., has been appointed assistant professor of geology at the University of Montana.

As lecturer on sanitary engineering, the chief chemist of the State Department of Health, Harry W. Clark, will continue the late Professor Whipple's courses in the engineering school at Harvard University.

C. T. R. WILSON, reader in electrical meteorology at the University of Cambridge and observer in meteorological physics at the Solar Physics Observatory, has been elected to the Jacksonian professorship of natural philosophy in the university.

PROFESSOR ANDREAS VON ANTROPOFF, of the Technische Hochschule, Karlsruhe, has been offered the chair of physical chemistry at the Chemical Institute in the University of Bonn.