

chemist living who had attended the famous meeting at Karlsruhe in 1860.

I chanced to visit Professor Schiff's laboratory at Florence in 1913 and found him a delightful gentleman, who, although over eighty years of age and suffering greatly from the gout was still able to give his course of lectures. He spoke with feeling of his friendship for some American chemists, especially for the late Professor Caldwell, of Cornell University, whom he had met while the two were students together in Woehler's laboratory at Göttingen.

Professor Schiff was a German and educated in German universities. He was compelled to leave his native land, however, because of his rather advanced political views and went some forty years ago to the Royal Institute of Florence, where his brother was professor of physiology. Professor Schiff made numerous contributions to chemistry and was the discoverer of the compounds known as Schiff's bases. He had no use for physical chemistry and would not allow the use of electricity in his laboratory. This recalls the fact also that Professor Baeyer's laboratory at Munich did not include any laboratory devoted to physical chemistry until 1913, when a small room was fitted up for this work.

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### SCIENTIFIC NOTES AND NEWS

DARTMOUTH COLLEGE has conferred the degree of doctor of laws on Ernest Fox Nichols, retiring president of the college, who has resigned to accept a chair of physics at Yale University.

DR. WILLIAM H. WELCH, professor of pathology at Johns Hopkins University, received the honorary degree of doctor of laws from the University of Chicago at the commencement exercises.

YALE UNIVERSITY has conferred its doctorate of science on Dr. Theobald Smith, of the Rockefeller Institute for Medical Research, and the degree of master of arts on Professor A. D. Bevan, of the Rush Medical College.

IN conferring degrees of doctor of science and master of arts, respectively, at the Harvard University commencement exercises, President Lowell said:

Richard Pearson Strong, knight errant of these latter days, armed not like the knights of old, but with the power of science, yet running greater risks than they; destroying dragons invisible to mortal eye, and saving not one or two, but hundreds and thousands by his art.

Ernest Henry Wilson, a botanist, who has explored the flora of the Chinese-Tibetan land, and enriched with many Asiatic shrubs and trees the gardens of the western world.

DR. HARMON N. MORSE, professor of chemistry in the Johns Hopkins University, has received the doctorate of laws from Amherst College, from which he graduated in 1873.

THE degree of doctor of science was conferred on Dr. Ludvig Hektoen, director of the Memorial Institute for Infectious Diseases, Chicago, by the University of Wisconsin, at the commencement on June 21.

THE honorary degree of doctor of science was conferred on John J. Carty, of New York, chief engineer of the American Telephone and Telegraph Company, at the commencement of Bowdoin College.

DR. EDWARD J. NOLAN was given the degree of doctor of science by Villanova College at the last annual commencement, in recognition of his many years' service as librarian and secretary of The Academy of Natural Sciences of Philadelphia.

AT the recent commencement the University of Pittsburgh conferred the honorary degree of doctor of laws on Dr. Otto Klotz, Dominion astronomer, Ottawa.

DR. N. A. COBB, of the Department of Agriculture, has received from the National Association of Cotton Manufacturers a medal "for his work in establishing methods of determining the properties and value of cotton."

ON King George's birthday many titles were conferred, among them that of knight on the following scientific men: Dr. G. T. Beilby, F.R.S., the chemist; Dr. M. A. Ruffer, formerly professor of bacteriology at Cairo Medical

School; Dr. J. J. H. Teall, F.R.S., late director of the Geological Survey of Great Britain; Mr. R. F. Stupart, director of the Meteorological Service of Canada, and Dr. N. Tirard, medical editor of the "British Pharmacopœia." Dr. W. Baldwin Spencer, F.R.S., professor of biology in the University of Melbourne, was made a K.C.M.G. and Dr. Christopher Addison, parliamentary secretary to the ministry of munitions, and late professor of anatomy in the University of Sheffield, a privy councillor.

PROFESSOR ARTHUR SCHUSTER, honorary professor of physics at Manchester, has been appointed Halley lecturer at Oxford.

At the meeting of the British Association to be held at Newcastle-upon-Tyne, beginning on September 5, evening lectures will be given by Professor W. A. Bone, F.R.S., on "Recent Advances in Combustion," and by Dr. P. Chalmers Mitchell, F.R.S., on "Evolution and the War."

DR. CHARLES HORACE MAYO, of Rochester, Minn., was elected president of the American Medical Association at the recent Detroit meeting. Dr. William J. Mayo, his brother, was president in 1906.

THE National Society for the Promotion of Engineering Education held its annual meeting at the University of Virginia from June 19 to 22, under the presidency of Professor Henry S. Jacoby, of Cornell University.

At the annual meeting of the Eugenics Research Association held at Cold Spring Harbor on June 22, Professor Adolf Meyer was elected president in succession to Professor J. McKeen Cattell. The association will join in the Convocation Week meeting of the American Association in New York at the end of the present year.

FRANCIS C. SHENEHON, for the past seven years dean of the college of engineering and professor of civil engineering in the University of Minnesota, has tendered his resignation to the board of regents. Mr. Shenehon will devote his entire time to his practise as a consulting hydraulic engineer.

PROFESSOR CHAS. H. TAYLOR, head of the de-

partment of geology in the University of Oklahoma for the past five years, has resigned, to devote himself to his oil interests and to scientific research.

DR. A. D. EMMETT, assistant chief in animal nutrition, of the Illinois Agricultural Experiment Station at the University of Illinois, has accepted the position of research biological chemist in the research laboratory of Parke, Davis and Company, Detroit, Michigan.

PROFESSOR CALVIN O. ESTERLY, of Occidental College, is to go to the Scripps Institution for Biological Research of the University of California at La Jolla, as zoologist.

DR. FRANK E. LUTZ, of the American Museum, and Mr. J. A. G. Rehn, of the Philadelphia Academy of Natural Sciences, plan to spend July and part of August making a field study of the insect fauna of the isolated mountains southwest of Tucson, Arizona.

To study the return of plant life on an Alaskan volcano, Professor Robert F. Griggs, of the department of botany of the Ohio State University, accompanied by his family, left recently for Mt. Katmai, a volcano near the western coast of Alaska. The eruption of the volcano four years ago destroyed every vestige of plant life in the vicinity.

EDWARD P. VAN DUZEE has resigned his instructorship in entomology at the University of California, to accept the appointment of curator of the department of entomology of the California Academy of Sciences.

DR. JOSEPH A. LONG, assistant professor of embryology in the department of zoology, University of California, has been granted a year's leave of absence. He plans to remain in residence in the laboratories of the department of anatomy in order to continue certain researches on the ovulation of mammals and the earliest development of the mammalian ovum in conjunction with Professor Herbert M. Evans.

IN connection with the Quarter-centennial Celebration, held at the University of Chicago, June 2-6, 44 of the 82 doctors in botany returned to the departmental conference. At the formal conference, the papers representing

the doctors were as follows: "Genetical Phenomena in *Oenothera*," George H. Shull (1904), Princeton University; "A Quarter-century of Growth in Plant Physiology," Burton E. Livingston (1901), Johns Hopkins University; "The Problems of Plant Pathology," Frank L. Stevens (1900), University of Illinois, and "Inland Associations of Algæ and their Controls," Edgar N. Transeau, Ohio State University.

At the University of Illinois College of Medicine, Chicago, during the graduate summer quarter (June 20–September 12), in addition to the scheduled courses, a series of lectures will be given before the faculty and students to which physicians and all others interested are especially invited. The series will include about twenty lectures upon special research topics in the preclinical sciences by men from various institutions throughout the country. The opening of the graduate quarter will occur on June 20 and the first lecture of the series will be given on that date at 11 A.M. by Dr. Frank Billings, his subject being "The Relation of Graduate Work in the Fundamental Sciences to Clinical Study." President James will preside and will give an introductory address on "Graduate Work in Medicine."

SYLVANUS PHILLIPS THOMPSON, professor of physics in the Finsbury Technical College, London, known for his contribution to physics and electrical engineering, died on June 13, aged sixty-five years.

WE learn from *Nature* of the death of M. Paul Lemoult, until the outbreak of war professor of chemistry at the University of Lille, and director of the School of Commerce of the North, and chief engineer of the chemical works of La Pallice, near La Rochelle. When Lille was occupied by the Germans some of the industries were transferred to the Lyons district, and under the direction of Professor Lemoult a picric acid works was erected. On May 1, a fire broke out in the works, and very soon assumed serious proportions. Lemoult was soon on the spot, but, in spite of his efforts, the fire spread to the storehouse,

which contained 150 tons of picric acid. The explosion which ensued destroyed the factory, and Lemoult lost his life.

Two members of Lord Kitchener's party, who were lost with him, were Sir H. F. Donaldson and Mr. L. S. Robertson. Sir Frederick Donaldson was chief technical adviser to the ministry of munitions. He was president of the Institution of Mechanical Engineers in 1913. Mr. Leslie S. Robertson, assistant to the director of production in the ministry of munitions, was secretary of the Engineering Standards Committee.

THE lectureship in animal embryology at the University of Cambridge will not be filled now, the balance of the benefaction (about £300) accruing since the death of Dr. Assheton, the late lecturer, being applied to completing and publishing the embryological work on which he was engaged.

ADDRESSES at the dedication of the Van Vleck Observatory at Wesleyan University on June 16 were made by Dr. George Ellery Hale, director of the solar observatory of the Carnegie Institution, on "Astronomical Research as National Service," and by Professor Edward Burr Van Vleck, of the University of Wisconsin, on "John Monroe Van Vleck." The tablet on the building bears the inscription:

This Observatory, the gift of Joseph Van Vleck, commemorates the services rendered to Wesleyan University 1853–1912 by his brother John Monroe Van Vleck, professor of mathematics and astronomy.

A TABLET was unveiled on June 20 to the memory of Dr. Leonard Pearson, formerly professor in the University of Pennsylvania veterinary school and dean of the faculty. The exercises were held in the library of the veterinary school. Addresses were made by Dr. Louis A. Klein, dean of the veterinary school; Dr. William H. Caldwell, secretary of the American Guernsey Cattle Club, and Dr. C. J. Marshall, state veterinarian. The tablet was presented on behalf of the Guernsey Breeders' Association by Dr. Ephriam T. Gill, and was accepted for the university by Provost Smith. The tablet reads: "To the memory of Leonard

Pearson, B.S., V.M.D., M.D., eminent as a veterinarian, scholar and lover of mankind, through whose breadth of vision and untiring efforts these buildings were made possible; whose appreciation of the needs of animal husbandry kept him in sympathetic touch with the farmer, and whose achievements will always be an honor to his alma mater, this tablet is affectionately dedicated by the Guernsey Breeders' Association."

THE will of Mrs. Helen C. Julliard gives \$50,000 to the American Museum of Natural History, \$25,000 to Colorado College, \$100,000 each to St. John's Guild and the Lincoln Hospital, and \$50,000 to the New York Orthopedic Hospital.

THE Guggenheim brothers, associated as M. Guggenheim Sons and Co. and in the American Smelting and Refining Company, have added \$165,000 to their donations to Mount Sinai Hospital, making their total gifts in memory of their parents \$665,000.

ANNOUNCEMENT is made of a gift to the Johns Hopkins Hospital of the sum of \$95,000 by Dr. Kenneth Dows, of New York. The money is to be devoted to the investigation of tuberculosis and the better teaching of physicians and students in the recognition and management of the disease and the care of the patients who seek treatment for it at the hospital.

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#### UNIVERSITY AND EDUCATIONAL NEWS

MEMBERS of the Du Pont family, who are alumni of the Massachusetts Institute of Technology, have given \$800,000 for the extension and maintenance of the new buildings. Four other alumni—Charles Hayden, C. A. Stone, E. A. Webster and Edward B. Adams—have subscribed sums amounting to \$200,000. It is understood that the anonymous donor who has already made large gifts to the institute has undertaken to give five dollars for each three dollars subscribed by the alumni during the present year.

It is planned to hold the annual meeting of the American Association of University Professors in New York City on Friday and Saturday, December 30 and 31. Further details will be published in the October number of the *Bulletin* of the association.

DR. WALTER EUGENE GARREY, for some time connected with the department of physiology of the Washington University, St. Louis, Missouri, has been elected to the chair of physiology in the college of medicine of Tulane University of Louisiana.

PROFESSOR JAMES F. NORRIS, head of the department of chemistry at Vanderbilt University, Nashville, Tenn., has resigned to accept a professorship of general chemistry at the Massachusetts Institute of Technology. He will be immediately associated with the instruction to be given in the fourth and fifth years of the new course in chemical engineering just established. Professor Frank H. Thorp, of the institute, has resigned his assistant professorship of industrial chemistry, and expects to devote himself in the immediate future to private business.

DR. ROSS AIKEN GORTNER, from 1909 to 1914, resident investigator in biological chemistry at the Station for Experimental Evolution of the Carnegie Institution and since that time associate professor of soil chemistry in the division of soils of the University of Minnesota, will transfer, on August 1, to the division of agricultural bio-chemistry in the same institution, with the title of associate professor of agricultural bio-chemistry, in charge of the section of bio-chemical research.

LESLIE ALVA KENOYER, Ph.D. in botany from the University of Chicago, has been appointed to a professorship in biology at Ewing Christian College, Allahabad, India, and is sailing from Vancouver on June 29.

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#### DISCUSSION AND CORRESPONDENCE

##### THE ACCEPTED FACTS OF DYNAMICS

OF those who have contributed to the recent discussion in SCIENCE concerning the methods of presenting the laws of dynamics, all would