

Professor J. C. Needham for assistance in his study of the Ephemeridae and other Neuropteroid insects.

Professor O. A. Johannsen for the study of the development and biology of Diptera.

Professor O. F. Curtis for the study of the movement of materials within a plant.

Professor H. Ries for an investigation of the moulding sand resources of the United States.

Dr. G. H. Maughan for a study of the effect of radiant energy on the development of certain glands of chickens.

Professor H. S. Liddell for assistance in his study of conditioned reflexes in the sheep and goat.

SCIENTIFIC NOTES AND NEWS

THE twenty-fifth award of the John Fritz Gold Medal has been made to Mr. Herbert Hoover and will be presented to him at the annual meeting of the American Institute of Mining and Metallurgical Engineers in February. The citation accompanying the award reads: "To Herbert Hoover, engineer, scholar, organizer of relief to war-stricken peoples, public servant."

By vote of a committee representing the Society of Chemical Industry, the American Chemical Society, the Société de Chimie Industrielle and the American Electrochemical Society, the Perkin Medal for 1929 will be awarded to Dr. E. C. Sullivan. The award is for his work on various special types of glasses including pyrex. Presentation will be made on January 4 at a joint meeting of the chemical societies to be held at the Chemists' Club, New York.

IN the house on Twentieth Street, New York, where Theodore Roosevelt was born seventy years before, the Honorable Charles Evans Hughes and Dr. Frank M. Chapman received on October 27 Roosevelt medals for distinguished service in American public life. A third medal was accepted on behalf of Colonel Charles A. Lindbergh. The citation of Dr. Chapman said in part that the ornithologist was a "writer and lecturer of persuasive charm, who has taught a nation to see, to know, to love and to protect the entrancing and forever mysterious familiars of its daily life."

THE new Welch Medical Library of the Johns Hopkins University, named for Dr. William H. Welch, who returned recently from Europe, will be opened in a few weeks. President Goodnow has announced the appointment of Lieutenant-Colonel Fielding H. Garrison, of the library of the Surgeon-General's office in Washington, as consulting librarian. William G. Shules is named assistant librarian.

THE laboratory recently established at the Massachusetts Institute of Technology for research in in-

organic chemistry has been named the Henry Paul Talbot Laboratory in honor of the late Professor Talbot. A portrait presented by Mrs. Talbot, who was present at the ceremony, was unveiled when the new laboratory was named. Dr. F. K. Keyes, director of the laboratory and in charge of the department of chemistry, presided, and Professor H. M. Smith, in charge of the division of inorganic chemistry, made an address describing Dr. Talbot's long and distinguished association with the institute and particularly his services in the teaching of chemistry. Dr. Talbot was professor in the department of chemistry from 1892 to 1927.

A MONUMENT to Louis Pasteur was unveiled on the Chicago lake front on October 27, amid impressive ceremonies in which Vice-President Dawes and the French Ambassador, M. Paul Claudel, took part. The twenty-eight-foot monument, built of Italian marble, stands at the west end of the Field Museum of Natural History. It was designed by Leon Hermant, French sculptor of Chicago.

ACCORDING to an Associated Press dispatch an impressive ceremony in memory of Captain Roald Amundsen, who lost his life while attempting to reach survivors of the wreck of the dirigible *Italia* in the Arctic several months ago, was held in the festival hall of the University of Oslo on October 25, under the auspices of the National Geographical Society. Dr. Fridtjof Nansen delivered the principal address.

THE retirement is noted in *Nature* of Professor H. F. Newall from the chair of astrophysics at Cambridge and from the directorship of the Solar Observatory. Professor Newall was on the Mathematical Tripos list of 1880 with Sir Joseph Larmor and Sir Joseph Thomson.

AT the annual meeting of the British Horological Institute on October 10, Sir Frank Dyson, the Astronomer Royal, received the first gold medal awarded by the institute.

DR. HARVEY CUSHING, Moseley professor of surgery at the Harvard Medical School and surgeon-general of the Peter Bent Brigham Hospital, Boston, has received the decoration of commander of the Order Del Sol of Peru.

LIEUTENANT-COLONEL EDWARD G. HUBER, of the United States Army Medical Corps, was elected president of the honorary public health society, Delta Omega, at its fifth annual meeting held at Chicago on October 15, during the convention of the American Public Health Association. Dr. C. C. Young, of the Michigan State Department of Health, was elected

vice-president, and Dr. James A. Tobey, of New York, was reelected secretary-treasurer. The Delta Omega Society now has about two hundred members belonging to six chapters at the Johns Hopkins School of Hygiene and Public Health, the Harvard University School of Public Health, the Massachusetts Institute of Technology, the University of Michigan, the Yale School of Medicine and the University of California.

NORMAN TAYLOR is representing the Brooklyn Botanic Garden on the American-Brazilian Scientific Expedition to the Amazon, which sailed for Rio de Janeiro on October 27. Besides natural history and archeology the expedition will study chicle for an American chewing-gum corporation, and map one of the tributaries of the Amazon rising in the Matto Grosso.

ACCORDING to a press cablegram, Dr. Erlandsen, of the department of botany of the University of Michigan, has arrived at Copenhagen aboard the Greenland government steamer *Gertrudbask*. Dr. Erlandsen has spent a considerable amount of time studying conditions in northern Greenland and will remain a month to compare his results with material accumulated by the botanical museum of the University of Copenhagen.

P. ARNE HANSEN has arrived at Geneva, N. Y., to join the staff of the New York State Agricultural Experiment Station as assistant in research (bacteriology). Mr. Hansen received his training in the Royal Technical College in Copenhagen in the laboratory of Professor Orla-Jensen and for the past year has been in charge of the Butter Testing Laboratory in Dublin. He plans to carry on the work at the station which has been under way for some time with special reference to heat-resistant organisms.

DR. R. L. STEHLE, professor and head of the department of pharmacology of McGill University, has returned from Europe after spending the summer in visiting laboratories chiefly in Germany and Austria.

PROFESSOR W. TRINKS, of the chemical engineering department of the Carnegie Institute of Technology, recently arrived from Germany where he spent a summer studying fuels-research conditions. While his activities were confined chiefly to investigations of continuous water-gas production methods, low-temperature carbonization, and better methods of nitrogen fixation from by-product gas, he reports that German scientific men and engineers are making important advances in all branches of technical research.

DR. T. L. PATTERSON, professor and head of the department of physiology at the Detroit College of

Medicine and Surgery, has returned to Detroit after having spent the summer at the new Jacques Loeb Laboratory for physiological research at the Hopkins Marine Station of Stanford University, Pacific Grove, California. Dr. Patterson served as acting professor of physiology at Stanford during the summer quarter and also carried out a series of comparative studies on the physiology of the gastric activity in various groups of marine animals.

PROFESSOR F. H. PIKE, of the College of Physicians and Surgeons of Columbia University, spoke before the Philosophy Club of Yale University on October 19 on "The Emergence of Land Organisms: A Study of the Nervous System in its Function in Evolution."

THE twenty-fifth anniversary of the foundation of the Faraday Society will be celebrated on Friday, November 9, at a meeting at the Royal Institution, when Sir Oliver Lodge will deliver the first Spiers Memorial Lecture, on "Some Debatable Problems in Physics."

DR. JOHN A. BOWNOCKER, chairman of the department of geology at the Ohio State University since 1916 and director of the Geological Survey of Ohio since 1906, died at his home in Columbus, Ohio, on October 20, at the age of sixty-three years.

M. PIERRE HENRI PUISEUX, member of the Paris Academy of Sciences, honorary astronomer of the Paris Observatory and honorary professor in the Sorbonne, died on September 28.

PROFESSOR WALTER H. BUCHER, of the University of Cincinnati, is to give six lectures at Princeton University on "The Origin of Earth Structure," during the period November 7 to 10.

A SERIES of fifteen discourses by research specialists of Mellon Institute will be broadcast from the University of Pittsburgh Studio of Westinghouse Station KDKA during the university year 1928-29. The talks, which are to be given on Tuesday afternoons at 1:45 o'clock, will be intended especially for home managers and students of home economics. The speakers will accord particular attention to recent advances in scientific knowledge that are of practical value in home-making and housekeeping.

THE Highway Research Board's eighth annual meeting will be held December 13 and 14, at the National Academy of Sciences and National Research Council building, Washington, D. C. Topics to be discussed will include: Practical methods based upon sound research for taking care of unusual drainage and other subgrade conditions, and for methods for design of pavements; New developments in finishing

bituminous surfaces; Factors to be considered in correlation of soil and pavement conditions; Design of guard rail based upon extensive research in Pennsylvania; Properties of bituminous materials for surface treated roads; Safety on highways as affected by rural or urban conditions, degree of improvement of roadway, light or heavy traffic, increasing volume of traffic; Effect of width of roadway and various physical conditions upon carrying capacity; The Maryland aerial traffic survey between Washington and Baltimore; Methods used in promoting the financing of state highway systems; Sound economic principles in financing road improvements; Research work of the National Safety Council. All persons interested in any phase of highway development are invited to attend.

WE learn from *Industrial and Engineering Chemistry* that the offer of the Ontario provincial government to contribute a million dollars for research, if Ontario industries subscribed an equal sum, has been accepted. Some twenty-five individuals and firms have contributed one million dollars to the fund so that the Ontario Research Foundation is now assured.

COLONEL THEODORE ROOSEVELT and Kermit Roosevelt will leave on a zoological expedition for the Field Museum of Natural History on November 10. The plan is to explore the region lying northward of Indo-China, along the gorges of the Moking River and abutting the borders of Burma, Siam and Yunnan. A second party, under the leadership of Harold Coolidge, Jr., of Boston, will leave later. He will be accompanied by Dr. Josselyn Van Tyne, assistant curator of birds at the museum of zoology of the University of Michigan; Dr. Ralph E. Wheeler, of Cambridge, Mass., who will be medical officer and assistant naturalist, and Russell W. Hendree, of Brooklyn, recently returned from three years' work in South America as a zoologist. Funds for the expedition were largely donated by William V. Kelley, the president of the Miehle Printing Press and Manufacturing Company, of Chicago, and in consequence the expedition has been named the William V. Kelley-Roosevelt expedition to Eastern Asia of the Field Museum. The first part of the expedition, under the Roosevelts, will sail from New York to India. There they will assemble equipment and proceed to the Yunnan border. The Coolidge division will sail on December 22 from Vancouver.

THE dean of the University of California Medical School and the director of the extension division of the university are making arrangements to give a course of ten public lectures in San Francisco in which the history of medical science will be discussed

by members of the medical profession in San Francisco. The topics will include the ideals of the profession, problems of public health, outstanding features of medicine to-day and types of medical service rendered to the community.

ON October 17 a meeting and discussion on "Linear Measurements" was held in the Engineering Societies Building in New York City, under the joint auspices of the Museums of the Peaceful Arts and the machine shop practice division of the American Society of Mechanical Engineers. Dr. George K. Burgess, director of the Bureau of Standards, was the chairman of the meeting. Two papers were presented, one by Professor James A. Hall, of Brown University, on "The Development of Measuring Devices, Primarily Manual," and the other by Professor Earle Buckingham, of the Massachusetts Institute of Technology, on "The Development of Automatic Measuring Devices and Use of Optical Methods." There was a discussion after the papers participated in by representatives of the Bureau of Standards, the Bausch and Lomb Optical Company, Mr. Eric Oberg and others. In connection with the meeting a special exhibit of measuring devices had been installed at the museum, to which the audience adjourned. These devices were loaned by the Brown and Sharpe Manufacturing Company, Pratt and Whitney Company, Bausch and Lomb Optical Company, L. S. Starrett Company, John Bath and Company and the Bureau of Standards. This exhibit will be on view at the museum for at least a month.

UNIVERSITY AND EDUCATIONAL NOTES

PRINCETON UNIVERSITY has received a gift of \$60,000 from Mr. and Mrs. Ellis B. Earle, of Newark, which completes the \$2,000,000 campaign fund for advanced instruction and research in the physical and biological sciences. With the \$2,000,000 goes automatically a conditional gift of \$1,000,000 from the General Education Board.

AT the ceremonies connected with the dedication of the chapel of the University of Chicago, Mr. John D. Rockefeller, Jr., is reported to have said: "As president of the Laura Spelman Rockefeller Memorial I am authorized to offer to the university an endowment fund [of \$1,000,000] to be known as the Laura Spelman Rockefeller Memorial fund, to be used to promote the religious idealism of the students of the university, through the broadest and most liberal devel-