

Other contributions of \$5,000 or over for scientific work are:

Three anonymous donors, through the Alumni Fund, for the School of Engineering, \$50,000.

The Josiah Macy, Jr., Foundation, \$2,100 for research in the department of zoology on the origin of hereditary abnormalities and lethal effects in early vertebrate embryos; \$2,160 for the study of obesity in childhood; \$3,600 for a study of primates; \$5,000 for investigations in the department of pathology on the relation of lipoids to the processes of growth and aging; \$5,600 for investigations in the department of pathology on cell proliferation in arteriosclerosis, and \$7,800 for the compilation and publication of results of investigations of psychosomatic problems in the department of medicine—a total of \$26,260.

An anonymous donor for research at the Institute of Cancer Research, under the direction of Dr. Francis Carter Wood, \$20,000.

The United States Public Health Service to the *American Journal of Cancer*, \$8,500.

The Florida Citrus Commission, for research on the nutritional aspects of citrus fruits, \$5,000.

AWARDS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

A LIST of the 1938 honors and awards, to be presented on December 6 to members and junior members of the American Society of Mechanical Engineers at the fifty-ninth annual meeting of the society in New York City, has been announced by C. E. Davies, secretary of the society. An attendance of more than 3,000 engineers from all parts of the United States and Canada is expected at the meeting. The awards are as follows:

Awarded for some great and unique act of genius of engineering that has accomplished a great and timely public benefit, the Holly Medal will be given to Francis Hodgkinson, professor at Columbia University and consulting engineer, 138 E. 36th Street, New York City, for "meritorious services in the development of the steam turbine."

Bestowed for an outstanding contribution to permanent engineering literature, the Worcester Reed Warner Medal will be presented to Lawford H. Fry, railway engineer, Edgewater Steel Company, Pittsburgh, Pa., for "written contributions relating to improved locomotive design and utilization of better materials in railway equipment."

Presented annually for an original paper or thesis of exceptional merit presented before the society, the Melville Medal for 1938 will be awarded to Alphonse I. Lipetz, chief consulting engineer in charge of research, American Locomotive Company, Schenectady, N. Y., for his paper on "The Air Resistance of Railroad Equipment."

For outstanding achievement in mechanical engineering for 1938, the Pi Tau Sigma Medal will be given to Wilfred E. Johnson, engineer with the General Electric Company, 1605 Winter Street, Fort Wayne, Ind. Mr.

Johnson was picked from among hundreds of candidates proposed by engineering schools, the local sections of the American Society of Mechanical Engineers and members of Pi Tau Sigma, engineering fraternity.

The Junior Award will be presented to Arthur C. Stern, consulting engineer, 928 Broadway, New York City, for his paper "Separation and Emission of Cinders and Fly Ash."

The Charles T. Main Award of \$150 for student engineers will be presented to Edward W. Connolly, 12347 Monica Avenue, Detroit, Mich., graduate of the University of Detroit, for his paper on "Economic Limitations in Engineering Design—with Concrete Examples."

The Postgraduate Student Award will be given to Marshall C. Long, 928 W. 34th Street, Kansas City, Mo., graduate student at Princeton University, for his paper on "An Investigation into the Angular Characteristics of an Adjustable Blade Current Meter."

The Undergraduate Student Award will be bestowed upon Donald C. McSorley, 434 S. Magnolia Avenue, Lansing, Mich., formerly of Michigan State College, for his paper on "Humidity Insulation."

THE SEMI-CENTENNIAL MEETING OF THE GEOLOGICAL SOCIETY OF AMERICA

As has already been reported in SCIENCE, fifty years of progress in the science of geology will be celebrated at the semi-centennial meeting of the Geological Society of America, which will be held at the Waldorf-Astoria Hotel, New York City, on December 28, 29 and 30. Dr. Arthur L. Day, of Washington, D. C., is president of the society.

A special anniversary day program on Friday, December 30, will describe the contributions made by geology to the development of the natural resources of the United States. Representatives of the major fields of geology, including mineralogy, economic geology, paleontology, seismology and petrology, will report advances already made and outline problems yet to be solved.

Professor Herman Leroy Fairchild, of the University of Rochester, who is now eighty-eight years old and the only surviving member of the organizing committee which met at Ithaca, N. Y., in December, 1888, to found the society, will participate. Six of the one hundred and twelve original fellows who are still living will be among the guests. They are, in addition to Professor Fairchild: Dr. Nelson H. Darton, U. S. Geological Survey; Dr. William F. E. R. Gurley, Chicago; Dr. Robert T. Hill, Dallas, Texas; Professor Frederick W. Simonds, University of Texas; Dr. Edward O. Ulrich, U. S. National Museum.

The Paleontological Society, the Mineralogical Society of America, the Seismological Society of America and the Society of Economic Geologists, associated societies, will hold their annual meetings as a part of the three-day program and will participate in the exhibits,

scientific sessions and annual dinner of the Geological Society. Luncheons are planned by the Mineralogical Society on Wednesday, December 28, and by the Society of Economic Geologists on Thursday, December 29.

Lay explanations of the role of geology in everyday life and its contributions to the development of the United States will be presented over the radio during the meeting in a series of broadcasts sponsored by the society. More than fifty exhibits, dramatizing the work of geology in all its branches, are being arranged by Dr. E. H. Colbert, of the American Museum of Natural History, chairman of the exhibits committee.

The presidential address will be delivered by Dr. Day on Thursday night, at a special session in the American Museum of Natural History, Central Park West and 77th Street. The annual smoker will follow Dr. Day's address. Dr. Day retires from office at the close of the meeting and will be succeeded by a fellow whose election will be announced during the meeting.

More than a hundred scientific papers reporting the progress of research on a variety of geological subjects will be given during the morning and afternoon sessions of December 28 and 29. The meeting will close on Friday night, December 30, with the annual dinner.

The program will include the presentation of the Penrose medal, given for "eminent research in geology" to a geologist to be named that night. It will be the tenth award of the medal since it was established under a bequest by the late Dr. R. A. F. Penrose, Jr., in 1927. Dr. T. Wayland Vaughan, of Washington, D. C., first vice-president of the society and chairman of the medal committee, will introduce the medalist. Dr. Day will make the presentation.

Geology in and around New York City will be studied by visiting geologists during a series of five excursions on Saturday. Open house will be maintained during the meeting at the national headquarters of the Geological Society at 419 West 117th Street. Professor Paul F. Kerr, of Columbia University, general chairman, is being assisted by a committee composed of forty-two local geologists.

Dr. Day is chairman of the special committee that is arranging the semi-centennial observance. Assisting him are Dr. Charles P. Berkey, of Columbia University, secretary of the society; Professor Chester R. Long-

well, of Yale University; Professor Donald H. McLaughlin, of Harvard University; Professor Arthur F. Buddington, of Princeton University, and Joseph Stanley-Brown, of Kew Gardens, L. I., chairman of the finance committee.

RECENT DEATHS AND MEMORIALS

DR. ALLEN ROGERS, supervisor of the department of chemical engineering at Pratt Institute, Brooklyn, since 1920, died on November 4 at the age of sixty-two years.

PROFESSOR LEONARD STANLEY DUDGEON, professor of pathology at the University of London, dean of St. Thomas's Hospital Medical School and director of pathology and bacteriology at the hospital, died on October 22.

A CORRESPONDENT writes: "The death at the age of thirty-one years has been announced of L. G. Schnirelmann, one of the foremost mathematicians of the younger generation of the U.S.S.R."

AN inscribed stone has been fixed by the London County Council at No. 32, Soho Square, W.I., London, recording the fact that Sir Joseph Banks, president of the Royal Society, and Robert Brown and David Don, botanists, lived at the house which formerly stood on the site, and that the Linnean Society met there from 1821 to 1857.

ON the occasion of the Virginia convention of the American Association for the Advancement of Science, which will meet in Richmond from December 27 to 31, the Virginia Section of the American Chemical Society has taken steps to give honor to Virginia's first state geologist, W. B. Rogers, for whom Mount Rogers in southwest Virginia is named. The section has been requested by officials of the national organization to sponsor a tour which will include a visit to White Top and Mount Rogers. One of the proposals for the memorial is the erection of a tower of native rock on the summit of Mount Rogers, which commands a view of five states. Dr. Rogers took part in the formation of the Association of American Geologists and Naturalists. He was named president of this group in 1848, when the society was transformed into the American Association for the Advancement of Science. He was elected president of the American Association in 1876.

SCIENTIFIC NOTES AND NEWS

DR. ROBERT W. WOOD, who retired this year from the professorship of experimental physics at the Johns Hopkins University, has been awarded the Rumford Medal of the Royal Society in recognition of his work in physics and optics. Dr. Wood is a foreign member

of the society. The Rumford Medal was founded by Benjamin Thompson Rumford, who died in 1814.

DR. WILLIAM LOWE BRYAN, president emeritus of Indiana University, previously professor of philosophy at the university, has sent in his resignation as a