

of Medicine, be appointed also a member of the Board of Scientific Advisers.

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Applications for aid from the fund should be addressed to Dr. S. Bayne-Jones, director, Board of Scientific Advisers, 333 Cedar Street, New Haven, Conn.

#### GRANTS OF THE GEOLOGICAL SOCIETY OF AMERICA

NINETEEN research projects will be carried out in the United States, Mexico and Canada this summer under grants from the Geological Society of America. The list of grants, aggregating \$17,073, follows:

Dr. Louis B. Slichter, professor of geophysics, Massachusetts Institute of Technology, \$5,350 for a large-scale seismic investigation of the earth's crust in New England.

Dr. Perry Byerly, professor of seismology, the University of California, \$900 for an investigation to determine whether various portions of the earth's crust have free vibration periods during earthquakes.

Dr. David Griggs, research physicist, Harvard University, \$675 for constructing instruments to test the deformation of rocks under high confining pressures in the laboratory.

Dr. Harry J. Klepser, instructor in geology, Capital University, Columbus, Ohio, \$300 to complete a detailed stratigraphic study of rock formations of Lower Mississippian Age in the Highland Rim of central Tennessee.

Dr. Harold R. Wanless, associate professor of geology, the University of Illinois, \$1,542 for field studies of rock formation of Pennsylvanian Age in Kentucky, Tennessee, Alabama and possibly Virginia.

Dr. Claude C. Albritton, instructor in geology, Southern Methodist University, and Dr. Kirk Bryan, professor of geology, Harvard University, \$500 for an investigation of Ice Age deposits near Alpine, Texas, containing human remains and fossils of extinct animals.

Dr. Ernst Cloos, associate professor of geology, the Johns Hopkins University, \$990 for a study of the age of the Glenarm rock series in Pennsylvania and Maryland, which has long been in dispute.

Charles S. Denny, instructor in geology, Harvard University, \$355 for a study of the Santa Fe formation of Tertiary Age, in the region north of Santa Fe, New Mexico.

Max Demorest, fellow in the Graduate School of Prince-

ton University, \$400 for the detailed study of an area extending across the Bighorn Mountains of Wyoming from Bighorn in the east to Shell Creek Canyon on the west.

Fred B. Phleger, Jr., instructor in geology, Amherst College, \$500 for a study of microscopic animal life in submarine cores, recently taken from the North Atlantic Ocean.

Dr. Kenneth E. Caster, curator of the Museum of Paleontology of the University of Cincinnati, \$500 to re-study and illustrate North American pelecypods, or clam-like fauna, of the Devonian Period.

Dr. Edward B. Mathews, professor of geology, the Johns Hopkins University, \$700 to continue his work in collecting analyses of all igneous rock from North America and elsewhere.

Dr. R. W. Imlay, research associate, Museum of Paleontology of the University of Michigan, \$835 for field studies of stratigraphy and paleontology and studies of connections between the Atlantic and Pacific across northern Sonora, Mexico, that existed during the Mesozoic Era.

Dr. Gilbert D. Harris, professor of paleontology, Cornell University, and Dr. Katherine Van Winkle Palmer, of the Paleontological Research Institution, Ithaca, N. Y., \$700 for a field and laboratory study to complete a series of monographs on the mollusks of the Eocene formations of the southeastern states.

Dr. Charles Deiss, professor of geology, Montana State University, \$400 to continue studies leading to the revision of the Cambrian rock formations in the Canadian Rockies and the northwestern states.

Dr. Charles F. Bassett, assistant professor of geology, the University of Kansas City, \$300 to collect fossils and to study a section of Paleozoic rocks near Dotsero, Colo.

Dr. Richard Foster Flint, professor of geology, Yale University, \$365 for an examination and interpretation of the glacial deposits in Columbia River Canyon, exposed during the construction of Coulee Dam.

Dr. J. Hoover Mackin, assistant professor of geology, the University of Washington, \$260 for a revision of the glacial geology of the Puget-Juan de Fuca region of Washington.

Arthur Keith, U. S. Geological Survey, Washington, D. C., \$665 to continue and complete his studies of Appalachian structure and stratigraphy in the Province of Quebec and adjacent areas.

#### A SPECIAL RESEARCH CONFERENCE ON CHEMISTRY

THE Section on Chemistry (C) of the American Association for the Advancement of Science has organized a new type of conference under the direction of Dr. Harold C. Urey and Dr. Neil E. Gordon, who are respectively the chairman and the secretary of the section. This conference will be held at Gibson Island, Maryland, from August 15 to 26, inclusive.

The program is as follows:

A. *Relation of Structure to Physiological Action*, Harold C. Urey, *chairman*. August 15-19.

August 15. Walter H. Hartung, "Relationship between Structure and Physiological Activity of Epinephrine and Ephedrine-like Compounds."

August 16. John H. Speer, "Purine Derivatives as Coronary Dilators—Relation of Structure to Activity."

August 17. Arthur C. Cope, "The Relation of Structure to Physiological Activity in Several New Series of Barbituric Acid Derivatives."

August 18. Edward A. Doisy and D. W. MacCorquodale, "The Relation of Molecular Structure to Androgenic, Estrogenic and Progestational Activity."

August 19. George W. Raiziss, "The Relation of Structure to Therapeutic Activity and Toxic Effect of Chemical Compounds with Particular Reference to Sulfanilamide and Related Compounds."

B. *Cellular Metabolism and Tissue Respiration*, C. G. King, chairman. August 22–26.

August 22. Kurt G. Stern, "Heavy Metal Catalysts in Tissue Metabolism."

C. V. Smythe, "The Identification of the Factor in Tissue Extracts that Stimulates the Fermentation of Yeast Cells."

August 23. K. A. C. Elliott, "Substances Which Behave Both as Intermediary Metabolites and as Respiratory Catalysts."

C. G. King, "Tissue Reactions of Vitamin C."

August 24. R. W. Gerard, "Neural Metabolism in Relation to Function."

Frederick Bernheim, "The Action of Certain Drugs on Cell Respiratory Catalysts."

August 25. M. E. Krahle, "Mechanism of Action of Certain Metabolic Stimulants."

August 26. Frances F. Beck and John C. Krantz, Jr., "Hydrogen-ion Concentration Studies on Tumor and Muscle."

C. Jelleff Carr and John C. Krantz, Jr., "Tissue Studies of Picrotoxin-Barbiturate Antagonism."

The sessions will begin at 10 o'clock, with one or two formal papers outlining the fields of research and directing attention to the unsolved problems. Since not more than two papers will be given on any one day, it will not be necessary to limit the discussions of the papers in any way. The program will also permit time for certain recreational features which the island affords.

Since accommodations on the island are limited, it is advisable to make reservations in advance. For reservations or for further information about the conference, write the secretary of the Section on Chemistry (C) and of the Conference, Neil E. Gordon, Central College, Fayette, Missouri.

F. R. MOULTON,  
Permanent Secretary

## SCIENTIFIC NOTES AND NEWS

THE doctorate of science was conferred at its two hundred and eighty-seventh commencement by Harvard University on Dr. Frank R. Lillie, director of the division of biological sciences at the University of Chicago; on Dr. Wendell M. Stanley, associate member of the Rockefeller Institute for Medical Research, Princeton, N. J., and on Dr. Irving Langmuir, associate director of the Laboratories of the General Electric Company at Schenectady, N. Y.

THE doctorate of laws was conferred at the commencement of Dartmouth College on Dr. James Bryant Conant, president of Harvard University.

DR. ROBERT R. WILLIAMS, chemical director of the Bell Telephone Laboratories, New York City, was the recipient of the honorary degree of doctor of science, conferred upon him by the Ohio Wesleyan University, Delaware, on June 13 "in recognition of his work in the chemistry of Vitamin B<sub>1</sub>."

THE degree of doctor of laws was conferred at the ninety-seventh annual commencement exercises of the University of Missouri on Dr. Frederick Lee Hisaw, professor of zoology at Harvard University, a graduate of the University of Missouri. Dr. Hisaw gave

the commencement address. His subject was "The Productive Scholar."

DEGREES conferred by the University of Rochester included the degree of doctor of science on Dr. Alice Hamilton, assistant professor emeritus of industrial medicine at Harvard University, and on Dr. Thomas Milton Rivers, director of the Hospital of the Rockefeller Institute for Medical Research, New York City.

THE University of Nebraska at its sixty-seventh annual commencement conferred the doctorate of science on Dr. John Torrence Tate, professor of physics and dean of the College of Science, Literature and Arts of the University of Minnesota, and the doctorate of laws on Dr. Harry Levi Hollingworth, professor of psychology in Barnard College, Columbia University, and on Dr. Leta Stetter Hollingworth, professor of educational psychology, Teachers College, Columbia University. Both Mr. and Mrs. Hollingworth graduated in 1906 from the University of Nebraska.

AT the one hundredth annual commencement on June 6 of Wabash College, the doctorate of laws was conferred on Dr. George H. A. Clowes, director of research of Eli Lilly and Company, Indianapolis, and