

Other new awards of the year included subsidies to the departments of preventive medicine at New York University and the Long Island College of Medicine. At each of these schools fourth-year students will work in district health centers of the New York City Health Department. Grants to Tulane, Vanderbilt and Tufts, also for the teaching of preventive medicine, were continued from previous years, together with a subsidy to the department of psychiatry at the University of Louisville. The fund assisted in the post-graduate teaching of medicine at Harvard, Vanderbilt, Tulane and the University of Minnesota, and offered fellowships to men in country practice in seven states.

Funds amounting to more than \$345,000 were set aside for medical research at fifteen different medical schools and hospitals. Judging each appeal on its merits, the fund has nevertheless concentrated its subsidies to some extent in groups of related studies at different centers. Thus in the field of heart and kidney disease it reported grants to the University of Pennsylvania for the study of kidney function, to the Johns Hopkins for the study of essential hypertension, to Western Reserve University for work on chronic nephritis and the causes of heart failure, and to Yale for a general investigation of the causes of circulatory disease. A study of arthritis at the Massachusetts General Hospital, Boston, and three studies of rheumatic fever were aided, together with three on problems of growth and development in childhood. New appropriations in the field of the acute communicable diseases included two to the University of Pennsylvania for the study of air-borne infections and the chemical structure of the streptococcus.

#### GRANTS OF THE GEOLOGICAL SOCIETY OF AMERICA

THE Geological Society of America announces that the following grants in support of special research problems have been authorized by the council:

W. H. Twenhofel, Madison, Wis., \$1,440. Professor Twenhofel will return to Newfoundland this coming field season. With an assistant he will extend studies begun in 1935 along the coast and islands of Notre Dame Bay and along the Exploits River, and continued in 1936 in the White Bay region. Plans for the new work call for examination of the interior, the more inaccessible parts of which will be reached by airplane. Professor Twenhofel has been assured of the active cooperation of Dr. A. K. Snelgrove, government geologist of Newfoundland. The studies will include not only the stratigraphy but the physiography and glacial geology as well.

R. Dana Russell, Baton Rouge, La., \$1,800. Professor Russell will study sediments off the mouth of the Mississippi River in the Gulf of Mexico. The Bureau of Fisheries will cooperate by furnishing the use of the ship *Pelican*, and the Geological Society is financing the construction of 2 Piggot "Guns," the original of which was

developed in 1935 with the aid of a grant from the society. Dr. C. S. Piggot, of the Geophysical Laboratory, will join the expedition.

V. Tanner, Helsingfors, Finland, \$2,500. Dr. Tanner has for a quarter of a century been studying the late Quaternary changes in level in Fennoscandia and related areas in Europe. In the summer of 1937 he visited Newfoundland and Labrador and became convinced of the possibility of correlating changes of level in Labrador with those in Fennoscandia through a detailed study of raised beaches and other phenomena. The grant from the Geological Society will enable him to extend his investigations to the coast of Labrador.

Randolph W. Chapman, Huntington, W. Va., \$540. Dr. Chapman and his brother, Dr. Carleton A. Chapman, of the University of Illinois, will make a detailed petrographic and structural study of Mt. Starr King and the surrounding region in northern New Hampshire. The two Chapmans have taken an active part in the detailed mapping and study of the geology of New Hampshire conducted during recent years under the supervision of Professor Marland Billings. The White Mountain magma series, the question of cauldron subsidence, laccolithic intrusions and the Ammonoosuc thrust fault will be investigated.

Chester Stock, Los Angeles, Calif., \$1,800. With the assistance of Dr. L. R. David, Dr. Stock will conduct a study of Tertiary fossil fish faunas of the Pacific Coast, involving taxonomy, comparison of morphological characters, distribution on the Pacific Coast of North America and the significance of fossil fishes in related geological problems, such as correlation of marine sediments and conditions of sedimentation in the area involved.

W. H. Newhouse, Cambridge, Mass., \$1,160. Professor Newhouse will devote the coming summer to field studies of selected mineral deposits with view to following out evidence already in hand that the direction of flow of the ore-bearing solutions can be determined from mineral symmetry. Whether the deposit is a filled vein or a replacement body, the criteria already developed appear to be useful in solving problems in ore deposition.

Robert T. Hill, Dallas, Texas, \$1,800. Dr. Hill's studies cover the history of geologic investigation in the Southwest, including identification and interpretation of the routes of Cabeza de Vaca and Coronado. A volume is expected to result from these studies.

Roger Revelle, La Jolla, Calif., \$900. Dr. Revelle, of the Scripps Institution of Oceanography, will continue his studies of recent marine sediments from various localities between Panama and Alaska that have been sampled by the Institution, by the U. S. Coast and Geodetic Survey and by the Navy. Many of the samples consist of cores taken with the Varney-Redwine coring instrument recently developed at the Scripps Institution. The mechanical analyses of sediments that pass a 230-mesh screen are to be made from a sodium carbonate suspension by taking pipette samples at intervals of time corresponding to the Wentworth size grades down to 0.5 microns in equivalent particle diameter. The results will give the particle size distribution and organic content, the relationship between size distribution and topography, and changes in environ-

mental conditions occurring during relatively recent geologic time. The coarser separates will be preserved for petrographic and micropaleontologic studies.

A. K. Miller, Iowa City, Iowa, \$600. Arrangements have been made for Dr. Miller to complete the studies long in progress by Dr. E. O. Ulrich and the late Dr. Aug. F. Foerste of Ozarkian and Canadian cephalopods, and to complete the manuscript for publication. Dr. Miller will be assisted in the work by Dr. W. M. Furnish.

#### THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE twenty-third annual meeting of the Pacific Division of the American Association for the Advancement of Science will be held this year at Stanford University from June 26 to July 1. The general sessions will be held on Tuesday, June 27, and will begin with a symposium on "Radiation and Life." The speakers will be Dr. W. V. Houston, of the California Institute of Technology; Dr. John H. Lawrence, of the University of California; Dr. M. Delbruck, also of the California Institute of Technology, and Professor Robert R. Newell, of Stanford University Medical School. A session on reviews of current research will be held in the afternoon. Professor J. W. McBain, of Stanford University, will speak on "Recent Advances in Colloid Chemistry," and an address by Dr. A. R. Davis, of the University of California, will follow. Professor Henry Borsook, of the California Institute of Tech-

nology, will contribute a discussion of "Biological Oxidations and Reductions," and Dr. J. W. Macfarlane, of the University of California, will discuss "Research on Personality Development." A general reception for members and guests of the division and its associated societies will follow the meeting. Among the evening addresses will be that of the president of the Pacific Division, Professor S. J. Holmes, of the University of California, on "Darwinian Ethics and Its Practical Applications." Professor John Desmond Bernal, professor of physics at Birkbeck College, the University of London, will also deliver one of the evening addresses.

Seventeen scientific organizations on the Pacific Coast are participating actively in the meeting by holding scheduled sessions throughout the week, while members of associated societies not formally participating are invited to take part by attending or presenting papers at the scheduled sessions. Titles of papers may be sent to the office of the Secretary, Pacific Division, American Association for the Advancement of Science, Stanford University, up to May 3, or, if sent to the secretaries of affiliated societies, the closing date for their inclusion in the program is April 29.

The meeting of the Pacific Division will be followed by a symposium commemorating the enunciation of the cell theory (July 1 to 5), and by the sixteenth National Colloid Symposium (July 6 to 8). Both will be held at Stanford University.

## SCIENTIFIC NOTES AND NEWS

At the annual meeting in Philadelphia of the American Association of Physical Anthropologists a dinner will be given on April 4 at the Hotel Pennsylvania in honor of the seventieth birthday of Dr. Aleš Hrdlička, curator of the Bureau of Anthropology of the U. S. National Museum. Dr. Hrdlička was born in Bohemia on March 29, 1869.

ACCORDING to a cablegram from England, Dr. C. E. Kenneth Mees, director of the research laboratories and vice-president of the Eastman Kodak Company, was nominated on March 16 for fellowship in the Royal Society, London.

THE International Acetylene Association recently awarded the James Turner Morehead Medal to John J. Crowe, research engineer of the Air Reduction Sales Company, New York. The medal was presented at the convention of the association, which met at Houston, Texas, from March 8 to 10. It was awarded to Mr. Crowe "in honor of his unceasing and successful technical activities," particularly in the development of apparatus for oxyacetylene welding and cutting.

DR. ADOLF WINDAUS, professor of chemistry at Göttingen, has been awarded the Pasteur Medal of the Society of Biological Chemistry at Paris.

THE Mary Kingsley Medal of the Liverpool School of Tropical Medicine has been awarded to Dr. Werner Schulemann, professor of pharmacology at the University of Bonn.

IT is announced in *Nature* that G. Ingle Finch, professor of applied physical chemistry at the Imperial College of Science and Technology, London, was presented at the Belgian Embassy on January 23 with the order of Commander of the Order of King Leopold II, which was conferred on him by King Leopold III for services rendered to science in Belgium during his term of office as Fondation Francqui professor in the University of Brussels during 1937-1938. Dr. Otto Loewi, professor of pharmacology at the University of Graz, was recently appointed his successor.

DR. ALFRED VOGT, professor of ophthalmology at the University of Zurich, has received the Cothenius Medal of the Academy of Natural Sciences at Halle.