

Grants, Fellowships, and Awards

■ The following types of fellowships, grants, and other appointments for research or study will be offered in 1956 by the Social Science Research Council, 726 Jackson Place, N.W., Washington 6, D.C.

Research training fellowships. Predoctoral and postdoctoral. For "more advanced research training than that which is provided in the usual Ph.D. program." All Ph.D. requirements except the thesis must be met before tenure of fellowship may begin, but application need not be deferred until that point has been reached.

Faculty research fellowships. Provide half-time support for research for 3-year terms. Open to college and university social science teachers. Ordinarily for those not more than 35 years of age.

Grants-in-aid of research. To aid scholars of established competence in meeting direct expenses of their own research projects. Not open to candidates for degrees.

Undergraduate research stipends. Open only to college juniors, for supervised research during the summer and the ensuing senior year. Some appointees will be granted first-year graduate study fellowships for the next year.

■ Sixteen new grants to American universities and medical centers will augment the extensive program of clinical and laboratory research in the fields of vitamins and nutrition of the National Vitamin Foundation, Inc. The foundation gives grants-in-aid semiannually throughout the United States and abroad. This group of awards, totaling \$70,766, became effective on 1 July.

■ A grant of \$13,200 has been awarded the West Virginia University School of Medicine by the Life Insurance Medical Research Fund. Designated for use during the period 1 July 1955–30 June 1957, the grant will support a research project on the role of epinephrine and related compounds in shock and hypertension, which is being conducted by Daniel T. Watts, head of the department of pharmacology. The department hopes to discover drugs that would block the adverse effects of epinephrine on the body.

■ Abbott Laboratories has set aside the sum of \$2000, from which grants-in-aid will be made to suitable training courses or programs offered by recognized educational institutions and hospitals. Instruction must be of such a nature that it provides, in the course or as an adjunct thereto, the basic information and clinical experience required by the U.S. Atomic Energy Commission for the use of at least one isotope. Individual grants

may be expended for the improvement of laboratory facilities, for the procurement of guest speakers, or in any other way the directors of the training programs may elect.

■ Grants by Sharp and Dohme to hospitals, colleges, universities, and other institutions for research and clinical studies have totaled \$92,550 since 1 Aug. 1954, according to an announcement by the medical and research divisions of Sharp and Dohme, a division of Merck and Co., Inc.

■ The Multiple Sclerosis Foundation of America has presented \$25,000 to the University of Chicago clinics for research on the causes of multiple sclerosis. The funds will be used to support work by Richard Richter, professor of neurology, and Eugene M. K. Geiling, professor and chairman of the university's department of pharmacology, who will attempt to locate within the nervous system, certain organic chemical compounds that have previously been injected into the blood stream. For this purpose, drugs and other compounds "tagged" with radioactive chemicals will be used. Some of these drugs are products of the university's "atomic farm," where drug plants are grown in atmospheres containing radioactive carbon dioxide. The compounds, which are to be studied in small laboratory animals, will include several drugs well known for their damaging effects on nervous tissues.

■ For the third consecutive year, the American Society for Metals will award \$400 scholarships in metallurgy to 49 leading engineering schools in the United States and Canada, as part of a program sponsored by the society's foundation for education and research. The scholarship grant is paid to the university, whose department of metallurgy selects a winner on the basis of scholarship and financial need.

■ Gifts totaling more than \$300,000 for educational grants to colleges and universities for the advancement of science and engineering are announced by the Dow Chemical Co. Allocations have been made to various institutions throughout the country for the academic year 1955–56.

A major phase of the aid-to-education program is the authorization of \$133,500 for distribution to 38 colleges and universities for the establishment of graduate fellowships and undergraduate scholarships and to two educational foundations for use in assisting deserving students.

Another part consists of \$167,500 allocated to 19 institutions, most of it earmarked for unrestricted use in current

expansion and operating programs. The bulk of these contributions will go to Case Institute of Technology and to the Michigan College Foundation, in which 14 liberal arts colleges participate.

In addition to these grants, the company has assigned \$140,000 for distribution to a number of schools for research on specific projects that supplement the company's own research in various fields.

■ The James Picker Foundation has announced the award of a grant to the Duke University School of Medicine in support of the studies of Robert J. Reeves on the effects of roentgen radiation on digestion and absorption of materials in the gastrointestinal tract. This grant was made on recommendation of the committee on radiology, Division of Medical Sciences, National Academy of Sciences–National Research Council.

■ Grants from the *Permanent Science Fund* of the American Academy of Arts and Sciences are made in support of research in any field of science whatsoever in amounts that ordinarily do not exceed \$1500. Applications for grants to be made next March *should be filed by 1 Sept.* on forms available from the Chairman, Permanent Science Fund Committee, American Academy of Arts and Sciences, 77 Massachusetts Ave., Cambridge 39, Mass.

Special consideration will be given to projects on new frontiers of science, those that lie between or include two or more of the classical fields, those proposed by investigators who may be on the threshold of investigational careers or who are handicapped by inadequate resources and facilities. The committee does not ordinarily approve grants for research the results of which constitute partial fulfillment of requirements for an academic degree.

■ The application deadline for the 1956 American Heart Association research fellowships and investigatorships is 15 Sept. Awards are made in the following categories:

Established investigatorships. Awarded for periods of up to 5 years, subject to annual review, in amounts ranging from \$6000 to \$9000, to scientists of proved ability who have developed in their research careers to the point where they may be considered to be independent investigators.

Research fellowships. Awarded to young men and women with doctoral degrees for 1- to 2-year periods to enable them to train as investigators under experienced supervision. Stipends range from \$3500 to \$5600.

The association also maintains another form of research support, the career investigatorship. This is awarded to a

limited number of investigators of unusual capacity and accomplishment to assure them of financial support throughout their productive lives. Career investigators are selected by the Research Committee from nominations, rather than by application of individuals. The selections are subject to approval by the AHA board of directors. The application deadline for grants-in-aid is 1 Nov. Additional information and application blanks may be obtained from the Medical Director, American Heart Association, 44 E. 23 St., New York 10.

■ The United Brotherhood of Carpenters and Joiners of America has contributed \$75,000 to insure the preservation of Mettler's Woods, a 65-acre tract of primeval forest near New Brunswick, N.J. The woods will be turned over to Rutgers University for administration, permanent protection, and use as a center for ecological studies.

A campaign to raise funds was begun 2 years ago by a citizens' committee headed by William H. Cole, director of the Rutgers University Research Council. More than 2000 separate gifts totaling \$57,000 had been received prior to the union's donation. The woods, together with 71 acres of adjoining protective land, will stand as a memorial to William L. Hutcheson, late president of the union.

In the Laboratories

■ Ketay Limited is being formed by the Norden-Ketay Corp., New York, and the Plessey Co., Ltd., to design, develop, and manufacture synchro- and servomechanisms in England. Arrangements have been made to produce a complete range of sizes and types of these components.

Plessey, which has about 15,000 employees, is the largest European electronic and aeronautical component manufacturer. Norden-Ketay designs, develops and manufactures servomechanism components, instruments, computers, and automatic control systems in the nine plants and laboratories of its divisions and subsidiaries.

Ketay Limited has arranged for Plessey to provide the manufacturing facilities and manufacturing and administrative personnel; Norden-Ketay will provide engineering, design, and manufacturing information.

■ Hercules Powder Co. has announced plans to start immediate construction of a new plant at Louisiana, Mo., for the production of pentaerythritol (PE). Completion of the plant is scheduled for late next year. It will have an annual production of 24 million pounds of PE

and 100 million pounds of formaldehyde, a basic raw material for PE. Pentaerythritol is used in paints, varnishes, lacquers, core oils, plasticizers, resins, and adhesives.

■ The Atomic Energy Commission has announced the award of a \$349,560 contract to the Foster Wheeler Corp. of New York for the design, construction, and test operation of a research reactor at the commission's Livermore Research Laboratory, Livermore, Calif. The reactor, which has been designated the Livermore Pool Type Reactor, will be used by the University of California Radiation Laboratory at Livermore. The new unit is scheduled to be in operation by December 1956.

■ In line with Shell Chemical Corp.'s expanding activities in the synthetic rubber field, a manufacturing research unit has been established at the Torrance, Calif., plant. John Anderson, formerly research director at Shell Chemical's Houston Laboratory, will be research director at Torrance.

■ The first polymerization unit for the manufacture of synthetic resin emulsions in Colombia has just been shipped from Boston, Mass., to Medellin, where it will be erected. The Chemicals Export Co., which operates the export sales activities for the Polyco Department of the Borden Co., is sending the unit to its distributors, General de Productos Quimicos Fadales, S.A.

This firm will operate under a licensing arrangement with the chemical division of the Borden Co. for the manufacture of the Polyco synthetic resin emulsions. The new plant will polymerize a wide range of monomers, producing the Polyco chemical specialties used in the leather, textile, and adhesive fields.

Miscellaneous

■ A library of tape-recorded heart sounds and murmurs is being established by the American Heart Association for use in undergraduate and postgraduate medical education. The association's Committee on Auscultatory Phenomena announced that the library would include 10 teaching reels and 34 different heart sounds and murmurs available in loop form at two different speeds, 1 7/8 in./sec and 7 1/2 in./sec.

The tapes are expected to be ready for circulation about 1 Sept. Information on use of the tapes, as well as descriptive materials on their content, can be obtained from the Medical Division, American Heart Association, 44 E. 23 St., New York 10.

■ The Brookhaven National Laboratory has prepared a completely new edition of its book of cross sections, *AECU-2040*, which will be known as *Neutron Cross Sections BNL-325*. It will be put on sale this month by the Government Printing Office, probably at a price of \$3.50. Included with it will be an addendum containing the cross-section results for the important heavy elements from all the countries that are presenting such data at the Geneva nuclear conference, including the Soviet results.

■ In accordance with the President's Executive Order of 9 May, on 1 July the former Foreign Operations Administration became the International Cooperation Administration and was established as an agency within the State Department. John B. Hollister, who served as executive director of the Commission on Organization of the Executive Branch of the Government (the Hoover Commission), is director of the new agency.

■ The U.S. National Museum, Smithsonian Institution, recently opened an exhibit illustrating Indian life among the historic tribes of Latin America. A notable part of the exhibit is a reconstruction of a Lucayan-Arawak village on the present Long Island in the Bahamas, called Fernandina Island by Columbus. The settlement, one of those described in some detail in the discoverer's journal, was on approximately the site of the present small village of Burnt Ground.

The reconstruction was made on the basis of Columbus' description and the archeological work of the Ernest N. May-Smithsonian expedition of 1947. Before directing this reconstruction, museum ethnologists made an extensive study of all records available from the late 15th and early 16th centuries.

In addition to the West Indian material, the new exhibit includes a display of the head-shrinking techniques of the Jivaro Indians of the Ecuadorian jungles, a hunting camp of the Yahgans of Tierra del Fuego, and 17 other features.

■ The first article in the August issue of *The Scientific Monthly* is "What's happening to our glaciers!" by William A. Long. The other articles include "Our responsibilities as scientists," J. Rud Nielsen; "Karl Wilhelm Feuerbach, mathematician," Laura Guggenbuhl; "Lettuce industry of the Salinas Valley," Paul F. Griffin and C. Langdon White; and "Medals of the Royal Society of London," Erwin F. Lange and Ray F. Buyers.

In the "Science on the march" section, there is a discussion of the forthcoming International Geophysical Year, by Harold Spencer Jones. This issue also contains the reviews of 16 books.