

"Considerations on the Disposal of Radioactive Wastes from Nuclear-Powered Ships into the Marine Environment," may be obtained from the Printing and Publishing Office, National Academy of Sciences-National Research Council, 2101 Constitution Ave., NW, Washington 25, D.C.

Grants, Fellowships, and Awards

Geography. The National Academy of Sciences-National Research Council will conduct, in 1960, under the financial sponsorship of the Office of Naval Research, its fifth annual program of geographical field research in foreign areas. During the first 4 years awards were made to 37 young Americans to conduct field research for periods ranging up to 20 months. The objective of the program is to stimulate greater participation by young Americans in field research in areas outside the English-speaking areas of North America. Alaska, Hawaii, Canada, Bermuda, and the Bahamas are specifically excluded.

The program is very broad in scope; it includes all branches of geography as well as fields which are closely related to geography. It is designed primarily for graduate students who wish to conduct field research in connection with their doctoral dissertations, but those who received the doctorate within the last few years are also eligible. More established scholars may submit research proposals to the Geography Branch, Office of Naval Research, Washington 25, D.C. The extent of financial assistance will vary according to the need of the individual. The intent is to provide adequately for travel, field, and living expenses. Usually no stipend is provided. Preference will be shown those who plan field investigations of at least 6 months' duration; investigations of a year or more are preferred. Recipients must agree to submit a detailed report of their investigations, suitable for publication, to the Academy-Research Council.

Applications for support of field work to be initiated before 1 April 1961 must be submitted prior to 1 December 1959. Notices of acceptance or rejection will be sent as promptly as possible, probably by the end of December 1959. All applications or requests for further information should be addressed to: Foreign Field Research Program, Division of Earth Sciences, 2101 Constitution Ave., NW, Washington 25, D.C.

Medical sciences. The University of

Rochester has established a program of postdoctoral fellowships to be awarded graduates of approved medical schools to enable them to pursue research in any of the departments of the School of Medicine and Dentistry. The Buswell fellowships are made possible by the bequest of the late Ralph Hochstetter and are intended to assist well-qualified doctors of medicine to prepare adequately for academic careers.

Buswell junior fellowships will be awarded to medical graduates who have completed at least 1 year of internship or equivalent training. Research experience is not required, but interest and ability are essential, since junior fellows are expected to spend about 90 percent of their time in research or in advanced study in preparation for research. These fellowships will provide a basic stipend of \$4500 to \$6000 per year, depending upon training and experience, and may be renewed with increments for a second or third year. An additional sum of \$500 per year may be provided for each dependent.

Buswell senior fellowships will be awarded to medical graduates who have held a Buswell junior fellowship for 2 or 3 years or who have had comparable experience in medical research and wish to continue in an academic career. These fellowships will provide a basic stipend of \$5500 to \$8000 per year, depending upon training and experience, with provision for annual increments. An additional sum of \$500 per year may be provided for each dependent.

Applications may be submitted at any time. Awards will be announced periodically. Additional information and application forms may be obtained from the chairman of the Committee on Buswell Fellowships, Department of Medicine, University of Rochester Medical Center, 260 Crittenden Blvd., Rochester 20, N.Y.

Mental health. The Foundations' Fund for Research in Psychiatry announces that 15 October 1959 is the next deadline for receipt of applications for research fellowships in psychiatry, psychology, sociology, neurophysiology, and other sciences relevant to mental health. Applicants for fellowships should have completed their doctoral training and should preferably have had several additional years' experience in research.

The Foundations' Fund also makes grants in support of research in the area of mental health. Applications for research grants-in-aid should be filed not later than 10 December 1959.

Persons interested in research fellowships or in research grants-in-aid should write for details to: Foundations' Fund for Research in Psychiatry, 251 Edwards St., New Haven 11, Conn.

Neuromuscular diseases. The Sister Elizabeth Kenny Foundation is continuing its program of postdoctoral scholarships to promote work in the field of neuromuscular diseases. These scholarships are designed for scientists at or near the end of their fellowship training in basic or clinical fields concerned with the problem of neuromuscular diseases.

Kenny Foundation scholars will be appointed annually. Each grant will provide a stipend for a 5-year period of \$5000 to \$7000 a year, depending upon the scholar's qualifications. Candidates from medical schools in the United States and Canada are eligible.

Inquiries regarding details of the program should be addressed to: Dr. E. J. Huenekens, Medical Director, Sister Elizabeth Kenny Foundation, Inc., 2400 Foshay Tower, Minneapolis 2, Minn.

Petroleum. Grants and awards for advanced study and fundamental research in any field of pure science which may afford a basis for subsequent research directly connected with the field of petroleum are made by the American Chemical Society from the Petroleum Research Fund. This relatively new program is now well established and has made grants in partial support of research in chemistry, chemical engineering, physics, geology, geochemistry, geophysics, bacteriology, mathematics, metallurgy, oceanography, biochemistry, and biophysics.

During 1959-60, approximately 225 grants and awards totaling about \$1,570,000, will be in effect, the largest number being in the field of chemistry. More proposals from geology, physics, and other disciplines which may make a fundamental contribution to the field of petroleum would be welcome.

At the present time six types of grants are being made.

1) Grants-in-aid to support projects of fundamental research in the petroleum field. These are primarily for faculty-graduate-student research. They are generally made for 2- and 3-year periods, with 2- or 3-year renewals. Undergraduate participation is encouraged.

2) Grants for fundamental research in the petroleum field at the undergraduate level—educational grants to selected staff members of undergraduate departments for research designed

to stimulate student interest in graduate study and improve the qualifications of the grantee. In general these are made on a yearly basis. They provide summer salaries for the principal investigator, stipends for students during the school year and summer months, and modest amounts for supplies and equipment. These grants seldom exceed \$3000 per year.

3) Unsolicited and unrestricted grants made to outstanding scientists at educational institutions in recognition of past accomplishments in fundamental research in the petroleum field. Each grant provides \$50,000 to enable scientists at or approaching the peak of their productivity to pursue, without restriction and without time limitation, their quest for new knowledge. Nominations for these awards may be submitted to the program administrator of the Petroleum Research Fund.

4) Grants to provide for exchange of scientists and scientific students between American and foreign nonprofit scientific and educational institutions. To date these awards have been made only to scientists with faculty status or to senior members of educational and scientific organizations. The awards provide all or part of the faculty member's salary and travel expenses for a period (3 to 15 months) of advanced study and research abroad.

5) Grants to teachers in undergraduate departments designed to allow them to obtain, at an institution of higher learning in the United States, a year of advanced study in any of the sciences basic to the petroleum field. The grants made to date have covered a full year's study.

6) Grants to outstanding recent recipients of a doctor's degree for a year of postdoctoral research in the petroleum field. Since 1954 eight such fellowships have been approved and administered through the National Research Council as part of its regular postdoctoral fellowship program.

A 19-man advisory board of The Petroleum Research Fund meets three times annually to consider proposals and policy matters. September 15 and December 15 are the next deadlines for consideration of proposals for programs to start in June or September 1960. Requests for further information about these grants and awards should be addressed to: Program Administrator, The Petroleum Research Fund, American Chemical Society, 1155 16th St., NW, Washington 6, D.C.

New Journals

Archives of Oral Biology, J. B. MacDonald, Boston, regional Ed. Pergamon, 4-5 Fitzroy Square, London W.1. Bimonthly. Individual subscribers, \$10; others, \$17.

Development Biology, vol. 1, No. 1, Apr. 1959. M. V. Edds, Jr., Ed. Academic Press, 111 5th Ave., New York 3. vol. 1 (6 issues, 1959), \$14.

Experimental Neurology, vol. 1, No. 1, Apr. 1959. William F. Windle, Ed. Academic Press, 111 5th Ave., New York 3. vol. 1 (6 issues, 1959), \$16.

International Atomic Energy Agency Bulletin, vol. 1, No. 1, Apr. 1959. International Atomic Energy Agency, Kärntnering 11, Vienna 1, Austria.

International Journal of Radiation Biology and related studies in Physics, Chemistry and Medicine, vol. 1, No. 1, Jan. 1959. W. M. Dale, Ed. Academic Press, 111 Fifth Avenue, New York 3.

Journal of Biochemical and Microbiological Technology and Engineering, vol. 1, No. 1, Feb. 1959. E. M. Crook, Ed. Interscience, 250 Fifth Avenue, New York 1. Quarterly. \$15.

Journal of the Faculty of Medicine—Baghdad, vol. 1, (new series), No. 1, Jan. 1959. F. S. Nashat, Ed. College of Medicine, University of Baghdad, Baghdad, Iraq. Quarterly. \$4.

Journal of Medicinal and Pharmaceutical Chemistry, vol. 1, No. 1, Feb. 1959. Arnold H. Beckett, Ed. Interscience, 250 5th Ave., New York 1. Bimonthly. \$15.

Journal of Molecular Biology, vol. 1, No. 1, Apr. 1959. J. C. Kendrew, Ed. Academic Press, 111 5th Ave., New York 3. Bimonthly. \$14.

Numerische Mathematik, vol. 1, No. 1, Jan. 1959. F. L. Bauer, Ed. Springer, Heidelberger Platz 3, Berlin-Wilmersdorf.

Soviet Physics—Solid State, (Fizika Tverdogo Tela), vol. 1, No. 1, Jan. 1959. (Order from American Institute of Physics, 335 E. 45th St., New York 17.) \$55; for libraries of nonprofit institutions, \$25.

Tetrahedron Letters, No. 1, Mar. 1959. H. Stephen, Ed. Pergamon, 122 E. 55th St., New York 22. \$20; free to individual subscribers to *Tetrahedron*.

Egyptian Journal of Botany, vol. 1, No. 1, 1958. Egyptian Science Association, Tager Building, 1, Sh. Elhamy, Kasr El Doubara, Cairo. Half yearly. \$3.

The Nucleus, vol. 1, No. 1, June 1958. Arun Kumar Sharma, Ed. Cytogenetics Laboratory, Department of Botany, Uni-

versity of Calcutta, Calcutta 19. Half yearly. \$10.50.

Turkish Journal of Pediatrics, vol. 1, Nos. 1 and 2, July-Aug. 1958. Ihsan Dogramaci, Ed. Research Institute of Child Health, Hacettepe Parki, Ankara.

Scientists in the News

VERN O. KNUDSEN, physicist and vice chancellor of the University of California, Los Angeles, has been named chancellor of the university, effective 1 September. He succeeds RAYMOND B. ALLEN, who resigned.

IRVING WOLFF, vice president for research of the Radio Corporation of America Laboratories, will be awarded an Elliott Cresson Medal by the Franklin Institute, Philadelphia, on 21 October.

GEORGE E. ROTH, director of the Dominion X-ray and Radium Laboratory, New Zealand, has been appointed director of the International Atomic Energy Agency's Division of Isotopes. He succeeds YOSHIO FUJIOKA of Japan.

MORTON HAMERMESH, associate director of the physics division at Argonne National Laboratory, has been appointed director of the division. He succeeds LOUIS A. TURNER, who recently became deputy director of the Laboratory.

Lt. Col. JOHN P. RANSOM, bacteriologist with the Army Research Office, Arlington, Va., has been appointed bacteriologist at the Walter Reed Army Institute of Research, Washington, D.C., in the division of immunology.

GERARD F. MULDER, senior scientific adviser at the Pasadena, Calif., branch office of the Office of Naval Research, has been appointed associate program director for astronomy in the Division of Mathematical, Physical, and Engineering Sciences of the National Science Foundation, Washington, D.C.

DUNCAN HOLADAY, associate professor of anesthesiology at Columbia University College of Physicians and Surgeons, has been appointed professor of surgery and head of the section of anesthesia in the department of surgery at the University of Chicago.