

USDA's Agricultural Research Service.

Requests for foreign plant materials by U.S. research agencies and corresponding requests for U.S. seed from abroad are cleared at USDA's Plant Industry Station, Beltsville, Md. In the U.S.S.R., all exchange of seed is through the All-Union Institute of Plant Industry, Leningrad.

Bibliography Service for Biological Photography

The Medical Group of the Royal Photographic Society of Great Britain has announced the establishment of a bibliography service for papers on photographic techniques with applications in the medical and biological sciences. Such papers are published in a very large number of journals, and it is therefore difficult to use the existing literature for solving both theoretical and practical problems.

The bibliography consists of punch cards, each of which carries an abstract of an original article. Almost 400 new cards are added annually. The present total of such classified abstracts is more than 2000. The cards are grouped under "Kinematography," "Photography," "Administration," and "Microscopy" before they are subdivided further. The librarian is therefore able to cite references of papers which have a bearing on any problem concerned with photography in medicine or biology.

The service is extended, free of charge, to all bona fide inquirers. Detailed requests for references to the literature should be addressed to: J. A. Fairfax-Fozzard, School of Anatomy, University, Cambridge, Great Britain.

Grants, Fellowships, and Awards

Atomic energy. The Atomic Energy Commission is accepting applications for 237 graduate fellowships for 1960-61 in nuclear science and engineering, health physics, and industrial hygiene. All 237 are for U.S. citizens. Information about the three programs may be obtained from the Fellowship Office, University Relations Division, Oak Ridge Institute of Nuclear Studies, P.O. Box 117, Oak Ridge, Tenn. A description of each program follows.

1) Nuclear science and engineering: 150 fellowships are available for first, intermediate, and final years of graduate school. The prerequisites are a bachelor's degree in engineering or

physical science, and mathematics through differential equations. The fellowships are for 12 months of study at 49 participating universities. The basic stipend is \$1800 for the first year, \$2000 for the intermediate year, and \$2200 for the final year, with additional allowances for dependents. The fellowships are awarded on a 1-year basis, but renewals are available. The deadline for filing applications is *1 January 1960*.

2) Health physics: 75 fellowships, five leading to the Ph.D. degree and 70 for 1 year of graduate study, are being offered in this program. The five fellowships for advanced training in health physics, leading to a doctorate in disciplines closely related to health protection, will be available each year. Applicants must be actively engaged in health-physics work and have a minimum of 2 years of productive experience in the field. Fellows may choose their graduate school, subject to the concurrence of the ORINS Fellowship Board. The stipend is \$4000 per year plus \$400 for each dependent. Up to \$2500 per year is allowed to the graduate school selected, to cover tuition and extraordinary costs. The deadline for applications is *1 February 1960*.

To be eligible for any of the other 70 fellowships, the applicant must have a bachelor degree in biology, chemistry, engineering, or physics, with adequate preparation in related fields, and must have completed mathematics through calculus. Participants must be under age 35. These fellowships provide for an academic year of formal work at an assigned university, followed by three summer months of training at an AEC installation. Participating institutions are Harvard and Vanderbilt and the universities of California, Kansas, Michigan, Rochester, and Washington. Commission installations cooperating in the program are Argonne, Brookhaven, and Oak Ridge national laboratories, Lawrence Radiation Laboratory, National Reactor Testing Station, and Hanford Atomic Products Operation. A limited number of extensions are available for additional work to complete the master's degree. The stipend is \$2500 for 12 months, with an additional allowance for dependents. The deadline for applications is *1 February 1960*.

3) Industrial hygiene: 12 fellowships are available in this program, which leads to the master's degree. An applicant must be under 35 years of age and must have a bachelor's degree, with a

major in physics, chemistry, or engineering. Additional academic training or industrial experience is desirable. The fellowship is for one academic year, and the stipend is \$2500. There are additional allowances for dependents and for industrial experience. The participating institutions are Harvard and the universities of Cincinnati, Michigan, and Pittsburgh. The deadline for applications is *1 March 1960*.

Biological sciences. Applications are invited for the third annual Turtox Scholarship established by General Biological Supply House, Inc. The \$5000 award is open to any U.S. citizen who is currently, or who has been, enrolled in a graduate school and who is, or is contemplating, continuing study for the doctorate degree in botany, zoology, or biology. The award will be based upon evidence bearing upon the promise of the applicant as a prospective teacher and research scholar. Application blanks may be obtained from the chairman of the award committee, Professor Frank A. Brown, Jr., Department of Biological Sciences, Northwestern University, Evanston, Ill. Completed forms must be returned by *1 February 1960*.

General Atomic. The Oak Ridge Institute of Nuclear Studies has issued a 24-page illustrated brochure describing the research-participation opportunities for college and university faculty members that exist at Oak Ridge. This program provides faculty members with appointments of from 3 months to a year on research staffs of Oak Ridge laboratories. The laboratories in which research opportunities exist touch virtually every field of scientific endeavor. Copies of the new brochure and application blanks are available from the ORINS University Relations Division, P.O. Box 117, Oak Ridge, Tenn. Applications for summer appointments (of 3 months' minimum duration) should be submitted to ORINS, with letters of recommendation, by *15 December*.

Physics. The Organization of American States and the National Atomic Energy Commission of Argentina have announced cosponsorship of an 8-week Summer Institute of Physics to be held at San Carlos de Bariloche, Argentina, beginning about 18 January 1960. The major purpose of the institute is to give intensive graduate-level training in solid-state physics, nuclear physics, and electronics to university physics professors and instructors throughout the hemisphere.

Approximately 15 fellowships, which will provide funds for international

travel, housing, subsistence, and other expenses incident to the course, will be awarded by the Organization of American States in accordance with recommendations of a special selection committee. Applicants must possess at least the equivalent of a B.S. degree in physics and have an excellent command of the Spanish language. Preference will be given to candidates engaged in university teaching, training, or research.

Instruction will be given by the staff of the permanent Institute of Physics of San Carlos de Bariloche and by visiting professors from leading universities throughout the hemisphere. Director of the institute is Jorge Sabato, who is also director of the Division of Metallurgy of the Argentine National Atomic Energy Commission and a professor of physics at the University of Buenos Aires.

Interested individuals may send a resume of their education and experience to Dr. Jesse D. Perkinson, Division of Science Development, Pan American Union, Washington, D.C. Resumes must be received on or before 4 December.

News Briefs

The National Science Foundation has announced the award of grants totaling about \$9.2 million to 33 colleges and universities to support Academic Year Institutes for science and mathematics teachers. This will be the fifth year of this program, which was organized to help teachers increase their knowledge in their subject areas through a year of advanced study on a full-time basis. Approximately 1600 experienced teachers will be enrolled in the institutes in the 1960-61 academic year; of these the great majority will be secondary-school teachers. In 4 years, 3400 science and mathematics teachers have participated in the institutes.

A scientific conference on disposal of radioactive wastes resulting from the peaceful uses of atomic energy will be held at the Oceanographic Museum in Monaco from 16 to 21 November. The conference will be cosponsored by the International Atomic Energy Agency and the United Nations Educational, Scientific, and Cultural Organization, with the active cooperation of the Food and Agriculture Organization. The meeting is intended to familiarize geol-

ogists, oceanographers, and fisheries experts with problems involved in the disposal of nuclear wastes and to enable them to discuss specific questions with atomic-energy specialists.

The Third Venezuelan Geological Congress will take place in Caracas, Venezuela, 22-29 November. This is the first such meeting to be held since 1938. The agenda establishes commissions in various areas, including general geology, stratigraphy, applied geology, petrogeny, and tectonism and sedimentation. The meeting is being promoted by the Venezuelan Society of Geologists; it is sponsored by the Ministry of Mines and Hydrocarbons, Division of Geology. For information write to Mr. Anibal R. Martinez, Jersey Production Research Co., 1133 N. Lewis Ave., Tulsa 10, Okla.

A group of students from the United Arab Republic is arriving in Canada to undertake scientific studies in Canadian universities. The students, who are all at the postgraduate level, will study physics, chemistry, electrical and civil engineering, metallurgy, soil science, soil chemistry, and botany. All their expenses will be paid by the government of the U.A.R., which asked Canada's help in the education program shortly before the start of the current academic year.

The American Epilepsy Federation, a new lay epilepsy organization, was formed in Milwaukee on 13 September. The federation, composed of 23 affiliates in 11 states, represents an effort to unite all existing lay societies into a single cohesive unit. The federation's president is Mrs. Albert Grass of Quincy, Mass.

The proceedings of the Sixth Midwestern Conference on Fluid Mechanics and the Fourth Midwestern Conference on Solid Mechanics, meetings which were held jointly at the University of Texas, 9-11 September, are available at \$12.50 per volume from the Engineering Institutes, Division of Extension, University of Texas, 18th and Red River Streets, Austin, Tex.

Sanitary Engineering Manpower has been issued by the U.S. Public Health Service. The data for the survey were gathered in cooperation with the National Science Foundation's scientific and engineering manpower unit. The

32-page pamphlet provides a collective picture of the age, education, professional experience, years of service, kind and type of employment, income, and related characteristics of approximately 4000 sanitary engineers, a group which represents almost two-thirds of the total estimated number of such engineers in the country. The report, PHS publication No. 703, may be obtained from the Government Printing Office, Washington 25, D.C.

The Council on Library Resources, Inc., has granted \$72,965 to the Brookings Institution for a survey of federal departmental and agency library facilities. Luther H. Evans, former director general of UNESCO, will serve as senior consultant for the project, which will be under the direction of Charles A. H. Thompson of Brookings. This survey will be the first major over-all appraisal of federal library facilities. Results of the study will be published early in 1961.

Arid Lands Research Newsletter, reporting current activities in all disciplines concerned with research on arid regions and with emphasis on western North America, will be published by the Committee on Desert and Arid Zones Research of the AAAS Southwestern and Rocky Mountain Division. News for publication and requests for copies of the *Newsletter* should be sent to the Editor, Richard B. Woodbury, Department of Anthropology, University of Arizona, Tucson.

The Society of Women Engineers will have its headquarters on the third floor of the United Engineering Building that is being built at United Nations Plaza in New York. It is hoped that the prestige gained by the society through its new headquarters in the Engineering Center will accelerate the development of wide-scale interest in engineering as an attractive profession for young women.

The indexing activities of the American Medical Association and the National Library of Medicine will be conducted in the future on a coordinated basis. Beginning with the issue for January 1960, the National Library of Medicine will publish monthly issues only of a new medical index to be called the *Index Medicus*. The American Medical Association will publish annual cumulations of the index, to be