

NIH Awards

Research grants and fellowships totaling \$4,237,521 were awarded during the month of October by the National Institutes of Health. The bulk of the money, \$3,634,177, was in grants for support of research projects concerned with major diseases and basic problems in the medical and biological sciences.

Of the 266 research grants awarded, 86 grants totaling \$641,615 were for new projects, of which more than half were concerned with research in the fields of arthritis, metabolic diseases, and mental health. The grants were made to 146 institutions in 35 states, the District of Columbia, 2 territories, and 7 foreign countries. Research fellowships totaling \$603,344 were awarded to 157 United States citizens for study in 79 institutions in 30 states, the District of Columbia, and six foreign countries.

News Briefs

The Thomas Alva Edison Foundation has given a special award to "World of the Mind" the new radio series on the sciences and humanities that was prepared by Broadcast Music, Inc., in cooperation with the AAAS and the American Council of Learned Societies [See *Science* 128, 292 (8 Aug. 1958)]. The programs have been made available without charge by Broadcast Music. So far, the series has been carried on 527 radio stations. The recognition award was presented on 1 December at the Edison Foundation's annual dinner.

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Six American scientists left on 18 November for a 30-day study of neurology in the Soviet Union. The mission, the first of its kind in the field of neurology, is sponsored by the National Institute of Neurological Diseases and Blindness. It was made possible by the agreement of last January between the United States and the U.S.S.R. to exchange missions in various fields. A group of Soviet specialists will make a similar study of neurology in the United States at a later date.

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The National Aeronautics and Space Administration has postponed the launching of the next Vanguard satellite until after the first of the year. A study is now being made of ways to increase the reliability of all satellite vehicles, and it is felt that the results of this study should be known before the next attempt to launch a Vanguard is made.

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A research center for the study of drugs and their use in the treatment of mental illness was officially opened on 20 November at Saint Elizabeths Hospital,

Washington, D.C. The new Clinical Neuropharmacology Research Center is operated jointly by Saint Elizabeths and the National Institute of Mental Health. Joel J. Elkes, National Institute of Mental Health pharmacologist and former chairman of the department of experimental psychiatry at the University of Birmingham in England, is the director of the center.

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The Custom Translations Club, a profit-sharing organization designed to furnish scientists in all fields with translations of pertinent material from Russian, Czech, and Polish, has just been established by Consultants Custom Translations, Inc., 227 W. 17 St., New York 11, N.Y. Full details about club participation are available upon request; write Steven H. Smith, Manager. Club members are entitled to a 10-percent royalty on resales of translations they order, and may also purchase other translations at a 50 percent reduction in price. Membership entails no obligation—there are no dues or no fees, and no specified number of orders is required.

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A 3-year research program on the learning of mathematical principles will be undertaken at Princeton University under the direction of Robert M. Gagné of the department of psychology, with a grant of \$44,000 from the Carnegie Corporation of New York. The first step will involve an analysis of two different courses in elementary algebra, one a traditional course, the other a modern experimental course. Many studies of mathematics curricula have been undertaken, primarily at the secondary school level, but no significant number of studies of the methods of learning mathematical concepts has been made for many years.

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A new journal, the *Journal of the Experimental Analysis of Behavior*, began publication in January 1958. It appears at least quarterly and is devoted to the original publication of experiments relevant to the behavior of individual organisms. The executive editor is C. B. Ferster of Indiana University Medical Center. Publisher is the Society for the Experimental Analysis of Behavior, Inc. The subscription rate per annual volume is \$12. Orders for subscriptions may be addressed to O. R. Lindsley, Behavior Research Laboratory, Metropolitan State Hospital, Trapelo Road, Waltham, Mass.

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The American Rheumatism Association has recently established a Committee for the Exchange of Information Concerning Faculty Appointees and Fellows. The committee will be pleased to receive information about fellowship and traineeship opportunities and faculty and other staff vacancies, as well as in-

quiries regarding available personnel. Such information and inquiries should be addressed to: Dr. Currier McEwen, New York University College of Medicine, 550 First Ave., New York 16, N.Y.

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The first known object to be sent into and recovered from outer space will have a permanent resting place at the Smithsonian Institution, Washington, D.C. The Army's Jupiter C nose cone that was propelled to an altitude of 300 miles and more than 1200 miles downrange from Cape Canaveral, Fla., on 7 August 1957, was presented to the Smithsonian on 14 November.

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The Atomic Energy Commission has revised its Access Permit Program to provide that, except for nonprofit educational institutions, no free security clearances will be granted to holders of Access Permits after 31 December. From the inception of the Access Permit Program, the AEC has provided to each permit holder 25 clearance requests without charge. The commission will discontinue this policy, and, in general, charge for all security clearances. The present rates are \$385 for each "Q" clearance and \$15 for each "L" clearance.

Grants, Fellowships, and Awards

Biological sciences. Applications are invited for the second annual Turtex scholarship, which was established by the General Biological Supply House, Inc. The \$5000 award is open to any citizen of the United States 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. Selection will be based upon evidence bearing upon the promise of the applicant as a prospective teacher and research scholar.

The application deadline is 1 February 1959. Application blanks may be requested from the Chairman of the Award Committee, Professor Frank A. Brown, Jr., Department of Biological Sciences, Northwestern University, Evanston, Ill.

Radiological Physics. Applications are now being accepted for Atomic Energy Commission graduate fellowships in radiological physics. The basic stipend is \$2500 for 12 months, plus \$350 for each dependent. Payments of tuition and fees, as well as a travel allowance, are included in the fellowships.

Radiological physics fellowship assignments are made for study at Vanderbilt University, with field training at Oak Ridge National Laboratory or the National Reactor Testing Station; at the University of Rochester and Brookhaven

National Laboratory; and at the University of Kansas or the University of Washington, and the Hanford Atomic Products Operation.

The Oak Ridge Institute of Nuclear Studies, which administers these fellowships for the AEC, has announced an application deadline of 2 January 1959 for appointments that will take effect the following fall. A brochure describing the program and application materials are available from the Radiological Physics Fellowship Office, University Relations Division, Oak Ridge Institute of Nuclear Studies, P.O. Box 117, Oak Ridge, Tenn.

Science teaching. The AAAS is administering the National Science Foundation's new program of summer fellowships for secondary school teachers of science and mathematics. The primary purpose of the 750 awards is to provide an opportunity for secondary school teachers to enhance their effectiveness as teachers through the further study of the subject matter of science and mathematics.

In this new program, a fellow is enabled to pursue individually planned study programs at an institution of his or her choice. Fellows are selected in a national competition. Applications should not be sent to colleges or universities, but directly to the AAAS. A special feature of this program that may be of interest to many teachers is the provision which allows up to three successive summers in which to study under the same award.

Selection of fellows will be made by the foundation solely on the basis of ability. An application may be submitted by any citizen of the United States who (i) now teaches in a secondary school in the United States, its territories, possessions, or the District of Columbia, (ii) will have had by 1 July 1959 not less than 3 years of experience as a full-time secondary school teacher of science or mathematics, (iii) holds a baccalaureate degree or its equivalent, and (iv) intends to continue teaching. For the purpose of this program, a science or mathematics teacher is defined as one who teaches during each school year at least one class in either science or mathematics in a secondary school.

Stipends will be computed at the rate of \$75 per week for each week of tenure. Married fellows will be provided with a dependency allowance of an additional \$15 per week for spouse and \$15 per week for each dependent child. An allowance to aid in defraying costs of travel of the fellow to his fellowship institution and return will be available. The travel allowance will be computed at the rate of 6 cents per mile but may not exceed \$80 in any one summer. Tuition and certain fees assessed and collected from in-

dividuals of similar academic standing will be paid by the foundation.

Application materials may be obtained from the Teacher Program, American Association for the Advancement of Science, 1515 Massachusetts Ave., NW, Washington 5, D.C. Completed materials must be received by the association not later than 19 January 1959. Fellowships will be awarded on 25 March 1959.

Scientists in the News

HARRISON BROWN, professor of geochemistry at the California Institute of Technology, received the \$2500 Albert Lasker Award in Planned Parenthood during the annual luncheon of the Planned Parenthood Federation of America that took place in New York on 19 November. He was honored for his synthesis of scientific data "into a comprehensive picture of the resources man needs to sustain himself" and for his intensive efforts to bring these findings before the public through lectures, articles, seminars with businessmen, and two major books, *The Challenge of Man's Future* and *The Next Hundred Years*. The citation stated:

"Dr. Brown has vigorously developed the central thesis that population limitation is as indispensable to the survival of mankind as the discovery of new sources of energy. He has alerted us to the necessity of coupling birth control with the development of resources and the introduction of public health techniques (i.e., 'death control'), if underdeveloped areas are successfully to make the transition to industrial civilization and hunger and privation are to be eliminated from the world."

VICTOR F. HESS, winner of the Nobel prize for the discovery of cosmic rays, has been awarded Fordham University's Insignis Medal. The medal—a memorial to Saint Ignatius Loyola, the Spanish Nobleman who founded the Jesuit Order—is awarded to Catholic leaders for extraordinary distinction in the service of God through excellent performance in their professions.

Hess has been a member of the Fordham faculty since 1938. At present, as professor emeritus, he is actively engaged in research. He is conducting one of the nation's four laboratories for the testing of radioactivity in the breath of persons whose jobs bring them into contact with radium. This year he completed a study of the distribution above and below ground of the principal ionizing agents in the lower atmosphere.

WORDEN WARING, formerly chemistry group leader in the Semiconductor Development Laboratory of Ray-

theon Manufacturing Company, Newton, Mass., has joined the Fairchild Semiconductor Corporation, Palo Alto, Calif., as head of the chemistry section.

New members of the research staff of General Atomic's John Jay Hopkins Laboratory for Pure and Applied Science, San Diego, are as follows:

FREEMAN J. DYSON, a specialist in the physics of elementary particles, is on leave of absence from the Institute for Advanced Study at Princeton.

ROBERT R. WILSON, specialist in proton-proton scattering, is on leave of absence from Cornell University, where he is professor of physics and director of the Laboratory for Nuclear Studies.

DAVID H. GURINSKY, specialist in liquid metal technology, has served for 11 years as head of the metallurgy division at the Atomic Energy Commission's Brookhaven National Laboratory.

R. OMAR RILETT, formerly associate professor of biology at the University of Buffalo, has taken up his new duties as professor and head of the department of biological science at Illinois State Normal University, Normal, Ill. He succeeds ERNEST M. R. LAMKEY, who has retired. Rilett recently returned from a sabbatical, which he spent as visiting investigator at the Pest Infestation Laboratory, Slough Bucks, England.

WALLACE E. FRANK, formerly head of the bioengineering branch of the Franklin Institute Laboratories for Research and Development, has been named executive vice president of the Spitz Laboratories, Yorklyn, Del. Spitz Laboratories, manufacturer of the Spitz planetariums, are at present also working on development of other devices, including a lunar probe simulator for the Army Ballistic Missile Agency at Redstone Arsenal.

D. R. McMILLAN, professor of physics and member of the Emory University faculty for 25 years, has resigned to accept the chairmanship of the department of physics and mathematics at Alabama College, Montevallo.

THEODOSIUS DOBZHANSKY, professor of zoology at Columbia University, will lecture on biology and genetics at the University of Sydney, Sydney, Australia, during 1959–60. Dobzhansky is a geneticist and a specialist in the evolutionary differentiation of species.

VICTOR K. LA MER, professor of chemistry at Columbia, will also go to Australia next year. He will lecture on physical chemistry in the Division of Chemistry, Commonwealth Scientific Industrial and Research Organization, Melbourne.