the volume, TID-7527, which is now on sale for $1 by the Office of Technical Services, Department of Commerce, Washington 25, D.C.

NSF Postdoctoral Awards

Applications will be accepted through *3 Sept.* by the National Science Foundation for a second group of postdoctoral fellowships to be awarded during 1957, both in the regular and senior postdoctoral programs. Fellowships will be awarded in mathematical, physical, medical, biological, engineering and other sciences, including anthropology, psychology (other than clinical), geography, certain interdisciplinary fields, and areas of convergence between the natural and social sciences. Names of successful fellowship candidates will be announced on 16 and 17 Oct.

To be eligible for these awards, candidates must be citizens of the United States with special aptitude for advanced training and must hold the doctoral degree or have the equivalent in training or experience. In addition, candidates for the senior postdoctoral program must have at least 5 years' experience beyond the science doctorate.

A stipend of $3800 per year will be awarded to successful applicants in the regular postdoctoral program. Dependency allowances will be made to married fellows. A limited allowance to aid in defraying a fellow's cost of travel will be paid as well as tuition and fees.

Annual stipends to a maximum of $10,000, adjusted to match as closely as feasible the regular salaries of the award recipients, will be awarded under the senior program, and the recipients of these awards will engage in study or research in an accredited nonprofit institution of higher learning in the United States or abroad. A limited allowance to aid in defraying costs of travel for a fellow and his dependents will also be available.

Proposed Legislation

Of the many bills introduced in Congress, some have a special relevance to science and education. A list of such bills introduced recently follows:

HR 7875. Establish the Civic Health through Athletic and Mental Proficiency Society of the U.S. Huddleston (D Ala.) House Education and Labor.

HR 7938. Protect the public health by amending Federal Food, Drug, and Cosmetic Act to provide for safety of chemical additives in food. Sullivan (D Mo.) House Interstate and Foreign Commerce.

HR 7914. Amend Career Compensation Act of 1949 to provide incentive pay for human test subjects. Reece (R Tenn.) House Armed Services.

HR 7934. Authorize Federal assistance to the states and local communities in financing a program of atomic and disaster shelters in the nation's schools. Metcalf (D Mont.) House Armed Services.

H Res 273. Provide that a select committee be appointed to conduct a full and complete investigation and study of the use of chemicals and other additives in food, medicine, and beverages with a view of ascertaining what deleterious effects such chemicals have on human life and health. Teller (D N.Y.) House Rules.

HR 7880. Establish on public lands of the U.S. a national wilderness preservation system for the permanent good of the whole people; provide for protection and administration of areas within this system by existing Federal agencies and for gathering and dissemination of information to increase the knowledge and appreciation of wilderness for its appropriate use and enjoyment by people; establish a National Wilderness Preservation Council. Porter (D Ore.) House Interior and Insular Affairs.

HR 7884. Encourage discovery, development, and production of manganese-bearing ores and concentrates in the U.S., its territories and possessions. Mills (D Ark) House Interior and Insular Affairs.

Scientists in the News

ISIDOR I. RABI, Nobel laureate and professor of physics at Columbia University, and ROBERT REDFIELD, professor of anthropology at the University of Chicago, are the scientist members of a new ten-man committee that has been established by the Fund for the Republic to "study contemporary American life with a view to determining the conditions under which a free society may best be maintained."

The ten consultants will meet several times a year for extended sessions of study and analysis. They will direct the collection of factual and analytical material and are expected to publish findings and conclusions from time to time.

ENGLEHARDT ECKHARDT, a physicist who was formerly vice president in charge of research for the Gulf Research and Development Company, Pittsburgh, Pa., has been appointed assistant director of the National Science Foundation for the Division of Mathematical, Physical, and Engineering Sciences. RAYMOND J. SEEGER, who has filled the position in an acting capacity, will continue as deputy assistant director for the division. Eckhardt is well known for his work in geophysics, ballistic measurements, and building acoustics.

The Navy has announced that the largest group award that has been made in the Federal Civil Service, $20,825, has been given to a group of employees at the Naval Research Laboratory in Washington, D.C., for their role in improving interceptor armament-control systems. PETER WATERMAN, an electronic scientist with the Radar Division at NRL and the key figure in directing this work, received $10,000. Forty-four other employees who worked with Waterman shared the remaining $10,825, which was distributed according to the significance of their contributions. Ten employees in the group received the second highest amount, $700 each; the remaining 34 received either $150 or $75.

R. M. WHALEY, executive assistant head of Purdue University's department of physics, has been granted a leave of absence for 1 year to serve as director of the Advisory Board on Education of the National Academy of Sciences in Washington, D.C., effective 1 Aug. He will help direct the efforts of the interdisciplinary board, which will serve as the principal agent of the National Academy in all matters relating to education in the sciences.

Among the responsibilities with which the board is charged are the following: to provide leadership for the establishment of scholarly criteria in science education; to cooperate with and assist the nation's professional societies in planning for science education at all levels; to anticipate future national requirements for scientists and engineers in all fields and to relate these requirements to the demands for education in the grade school, high school, college, and graduate school; to provide a bridge between the sciences and the other learned professions in matters of education in order to promote understanding and develop continuing cooperation among and between the schools, industry, and government.

LAWRENCE A. HYLAND, vice-president and general manager of Hughes Aircraft Company, Culver City, Calif., has received the 1957 Pioneer Award of the Institute of Radio Engineers' professional group on aeronautical and navigational electronics. He was honored for his demonstration in the early 1930's that radio waves will reflect from objects, a basic radar discovery. He first observed the principle of radar detection of aircraft in 1931 while he was an associate engineer in the Naval Research Laboratory, Anacostia, Md.

HAROLD JESKEY, professor of chemistry at Southern Methodist University, and SAMUEL W. GEISER, head of the biology department, received faculty achievement awards during the university's recent founder's day banquet. The $500 faculty awards were instituted this year.

FRED H. RHODES, virtually the founder of Cornell University's School of Chemical and Metallurgical Engineering, became professor emeritus on 1 July. When Rhodes first taught industrial chemistry in the College of Arts and Sciences 35 years ago, chemical engineering at Cornell was almost nonexistent. Rhodes has since worked steadily for its development. Gradually chemical engineering courses were included in the chemistry department curriculum, then a university degree was offered in the field, next a separate school was established, and finally a special building was erected.

Rhodes was graduated from Wabash College in 1910 and went to Cornell for a Ph.D. He taught chemistry for a year at the University of Montana, where the physicist Harold Urey was one of his students, and for 2 years at Cornell.

He then spent 3 years with the Barrett Company, becoming director of research. In this period he developed the divided-flow method for fractionating distilling columns, and designed the first continuous fractionating column with side-stream draw-off. Returning to Cornell in 1920, he started his crusade for chemical engineering.

GEORGE T. RADO and JAMES H. SCHULMAN, both of the Naval Research Laboratory, Washington, D.C., have been presented with the annual science awards of the NRL branch of the Scientific Research Society of America. Rado, head of the magnetism branch, received the society's Pure Science Award, and Schulman, head of the dielectrics branch, received the Applied Science Award.

Among those honored recently with Knox College alumni achievement awards were WILLIAM J. BAKER, professor of urology at Northwestern Medical School; JOHN R. MAYOR, former professor of mathematics and education at the University of Wisconsin who is now AAAS director of education; and JOHN S. GRAY, chairman of the department of physiology, Northwestern University.

LOUIS C. BIERWEILER, since 1937 curator of botanical collections at Harvard University's Botanical Museum, will retire this summer. He began his career of caring for the Blaschka glass flowers at Harvard 56 years ago. He was just 15 when in 1901 he unpacked the first of the flowers, which came in regular shipments from 1887 to 1936.

The more than 800 hand-molded glass models were made by a father-and-son team of German artisans, Leopold and Rudolph Blaschka. The collection was a gift to Harvard from Mrs. Elizabeth C. Ware and her daughter, Miss Mary Lee Ware. It has been examined by more than 7 million tourists.

Bierweiler has been responsible for mounting, displaying, and repairing the specimens, which illustrate the life history of 169 plant families. The models include cross-sections of the plants, with all the details of the fine internal anatomy of the flower worked in threads and sheets of glass. Insect pollination is demonstrated by delicate glass bees, wasps, or flies crawling down glass petals covered with dots of colored glass pollen. Part of the glass flower exhibit is found in the economic botany portion of the museum. Here, the fungal infections of various fruits, including apple, pear, and strawberry, are shown.

This year's honorary degree recipients include the following:

JOSHUA H. BURN, professor of pharmacology at Oxford University, from Yale University.

HENRY J. M. CREIGHTON, retired Swarthmore chemistry professor, from Swarthmore College.

HELMUT C. DIEHL, director of the Refrigeration Research Foundation, from the University of Rhode Island.

MARION B. FOLSOM, Secretary of Health, Education and Welfare, from Swarthmore College.

WINIFRED GOLDRING, formerly Stage paleontologist with the New York State Museum, from Smith College.

ALAN GREGG, author of important medical articles, and former vice-president of the Rockefeller Foundation, from Western Reserve University.

JOHN K. LAMOND, member of the Cornell University faculty, from the University of Rhode Island.

PEARL McIVER, chief of nursing services, U.S. Public Health Service, from Western Reserve University.

ARTHUR E. PITCHER, mathematics professor at Lehigh University, from Western Reserve University.

DICKINSON W. RICHARDS, Lambert professor of medicine at Columbia University, from Yale University.

JAN OORT, director of the Observatory of Leiden and professor at the University of Leiden, from Harvard University.

DAVID SARNOFF, chairman of the board of the Radio Corporation of America, from the University of Rhode Island.

LEWIS L. STRAUSS, chairman of the U.S. Atomic Energy Commission, from the University of Pennsylvania.

RALPH M. WATERS, emeritus professor of anesthesiology at the University of Wisconsin, from Western Reserve University.

ROBERT B. WOODWARD, Morris Loeb professor of chemistry at Harvard, from Harvard University.

Recent Deaths

LAWRENCE T. FAIRHALL, Pine Orchard, Conn.; 68; physicist, retired science director of the National Institutes of Health and consultant for the U.S. Public Health Service; lectured at Yale University; 17 June.

ROLAND HAMMOND, Providence, R.I.; 81; vice president of the American Orthopedic Association, 1920–1936; 11 June.

HENRY KIRCHNER, Niagara Falls, N.Y.; 67; engineer and retired vice president and director of the Carborundum Company; developed a new silicon carbide formula; 14 June.

HENRY MEYER, JR., Montclair, N.J.; 86; engineer and retired president of Meyer, Strong and Jones, mechanical and electrical engineers; author of a textbook on steam power plants; 17 June.

WILLIAM R. MILLIS, Washington, D.C.; 58; retired deputy chief for research and development in the Navy's Bureau of Ships; 9 June.

HERBERT MORGAN, Washington, D.C.; 82; retired principal astronomer at the Naval Observatory, who had been conducting research for Yale University, chairman of AAAS Section D–Astronomy in 1935; 11 June.

DAVID R. MORTERA, Long Beach, Calif.; 71; inventor and former head of Mexico's corps of engineers; 10 June.

JOHN RABBITT, Washington, D.C.; 49; staff geologist in the office of the chief geologist of the U.S. Geological Survey; 10 June.

LYNDON F. SMALL, Rockville, Md.; 59; scientist-director in the National Institute of Arthritis and Metabolic Diseases, National Institutes of Health, and consultant to the U.S. Public Health Service; internationally known narcotics specialist who was elected to the National Academy of Sciences in 1941; editor of the *Journal of Organic Chemistry*, 1938–51; 15 June.

ALBERTO F. THOMPSON, Silver Spring, Md.; 49; head of the National Science Foundation's Office of Scientific Information, formerly chief of Technical Information Service for the Atomic Energy Commission and chemistry professor at the University of Minnesota and Massachusetts Institute of Technology; 18 June.