

course in veterinary radiological health to be offered in this country specifically to meet the needs of veterinarians in the armed forces. These courses, which are presented in cooperation with the University of Tennessee-Atomic Energy Commission Agricultural Research Program, are designed to instruct military veterinary officers in the evaluation of problems of radiation phenomena, particularly in relation to their biological effects and the possible or potential factors involved in the radiocontamination of food-producing animals and animal-food products. Starting dates for future veterinary courses are 12 Sept., 26 Sept., 10 Oct., 24 Oct., 7 Nov., 12 Mar. 1956, 9 Apr., 23 Apr., and 7 May.

■ The new seven-story Morton medical research building of Northwestern University, Chicago, will be dedicated on 27 Sept. during the 98th Founders Day ceremonies commemorating the founding of the medical school. Sterling Morton, chairman of the board of the Morton Salt Co., will speak at the dedication. His mother left a \$2 million bequest in memory of her husband for construction of the building.

The new unit is connected to the Montgomery Ward memorial building, which houses the medical and dental schools. Designed to permit maximum flexibility for any size or type of research, the Morton structure's features include movable metal wall partitions equipped with water, gas, steam, air, and vacuum pipes. The partitions, which can be set up at any 10-foot interval within the building, will allow speedy conversion of laboratories to almost any size desired. Laboratories are being installed so that preclinical research in the Ward building and clinical research in the Morton building can be physically correlated with maximum efficiency.

■ For the first time the University of Detroit McNichols evening division is offering a complete 9-year curriculum leading to a degree in mechanical engineering. The first 4 years of the new program is equivalent to the curriculum offered in the first 2 years of the College of Engineering day program. It is equivalent also to the first 4 years of work, designated preengineering, offered up to the present in the McNichols evening division.

■ The School of Dental Medicine at Tufts University, Boston, has announced a series of new courses to be conducted in Spanish for foreign dentists. The courses will be open to Spanish-speaking dentists who are graduates of dental schools that have been accredited in their respective countries.

## Grants, Fellowships, and Awards

■ For the eighth consecutive year the National Paraplegia Foundation is awarding fellowships to be used for research in basic and medical sciences bearing on the problems of paraplegia. The fellowships are open to residents of the United States or Canada who have demonstrated ability in research. Fellows are expected to devote full time to research during tenure of the fellowship, except that by permission of the Medical Advisory Committee they may attend advanced courses of study that require only a limited portion of their time.

Preference is given to candidates whose primary interest is in the field of spinal cord function and disease, or in complications arising from spinal cord injury. Appointments run for 1, 2, or 3 years; they are subject to renewal for additional periods. The stipends range from \$3000 to \$4000 yearly, depending upon the past record of the applicant in scientific work, his family obligations, and the cost of living in the location chosen for study. In exceptional cases grants may be as high as \$6000. For information address the foundation at 1040 W. Michigan St., Indianapolis 7, Ind.

■ The Division of Medical Sciences of the National Academy of Sciences-National Research Council is accepting applications for postdoctoral research fellowships for 1956-57. These awards are designed to offer research experience for promising individuals who look forward to investigative careers, and not to provide practical experience in the clinical field. Ordinarily fellowships are not granted to persons over 35 years of age. The following programs are announced:

*Fellowships in Cancer Research* are awarded by the American Cancer Society on recommendation of the division's Committee on Growth. Awards are available for study in all branches of the biological, chemical, and physical sciences, and for clinical investigation applicable to the study of growth, typical or malignant. Citizens of the United States are eligible.

*British-American Exchange Fellowships in Cancer Research* also are awarded by the American Cancer Society upon recommendation by the Committee on Growth. They are offered to citizens of the United States for advanced study in Great Britain in specialized fields pertaining to the problem of growth. Similar fellowships are awarded by the British Empire Cancer Campaign to young British scientists for research in the United States.

*Fellowships in the Medical Sciences* supported by the Rockefeller Foundation are administered by the Medical

Fellowship Board of the division. Fellows are expected to devote themselves to research in the basic medical sciences. The awards are open to citizens of the United States and Canada.

*Fellowships in Tuberculosis* are also administered by the Medical Fellowship Board under a grant from the National Tuberculosis Association. These awards are designed to promote the development of investigators in fields related to tuberculosis. They are open to citizens of the United States who are graduates of American schools.

*Fellowships in Radiological Research* are administered for the James Picker Foundation by the division's Committee on Radiology. Applications will be entertained from candidates seeking to gain research skills leading to investigative careers in radiology. Appointments are not limited to United States citizens.

Applications for 1956-57 under any of these programs *must be postmarked on or before 1 Dec. 1955*. Fellowships are awarded in the early spring. Complete details and application blanks may be obtained from the Fellowship Office, National Academy of Sciences-National Research Council, 2101 Constitution Ave. NW, Washington 25, D.C.

■ The New York Heart Association will offer three senior fellowships this fall, each for a period of 3 years and renewable for an additional 2 years. These fellowships carry annual stipends that start at \$6000 and annual increments of \$500.

The awards are for full-time work and are available to men and women under the age of 35 who have attained a doctoral degree, who have demonstrated a competence for research, and who have a definite orientation toward fundamental research in the cardiovascular field. Research programs are to be carried out in recognized institutions within the area of the five boroughs of New York.

For further information, write to the Medical Director, New York Heart Association, Inc., 485 Fifth Ave., New York 17. *Closing date for applications is 31 Oct.*

## In the Laboratories

■ The Atomic Energy Commission plans to procure additional quantities of high-purity zirconium and hafnium to meet the increasing requirements of its reactor-development program and of currently scheduled naval projects. Tentative plans provide for solicitation of proposals for delivery of 2 million pounds of zirconium over a 5-year period or 1 million pounds over a 3-year period.

Proposals should also cover delivery of as much hafnium metal as can be produced from the zirconium to be processed. Any production process that meets the specifications for the end products will be considered.

Present plans call for issuance of an invitation for proposals in November 1955, with receipt of proposals by February 1956. The deadline for starting deliveries is expected to be July 1957.

The AEC at present has a contract with the Carborundum Metals Co., Inc., of Akron, N.Y., for delivery of 203,000 pounds of zirconium and 4000 pounds of hafnium per year. The new procurement will be in addition to this amount.

Prospective bidders are advised to familiarize themselves with the current status of zirconium and hafnium technology and the present and future market for the metals. In addition to the metal to be purchased by the AEC, quantities of zirconium and hafnium may be required for privately financed nuclear power projects. The AEC does not intend to provide zirconium or hafnium for such projects.

Preliminary schedules and further information are contained in a *Prospectus for Procurement of Zirconium and Hafnium*, copies of which may be obtained from the Pittsburgh Area Office, U.S. Atomic Energy Commission, Box 1105, Pittsburgh 30, Pa.

■ A 2-million-volt Van de Graaff positive-ion accelerator has been delivered to the Junta de Energia Nuclear of Spain by High Voltage Engineering Corp., Cambridge, Mass. The machine, to be used in a study of light nuclei, is installed at the Centro Nacional de Energia Nuclear de la Moncloa, where a program is under direction of Carlos Sanchez del Rio.

High Voltage is building a similar accelerator, one of 3-million-volts, for the Weizmann Institute of Science in Rehovoth, Israel. The unit, which is to be delivered next year, will be installed in the new nuclear physics department building that is now under construction at the institute.

■ The H. J. Heinz Co. has announced plans for the construction of a new Heinz Research and Quality Control Center. The \$3-million structure will be built at the company's Pittsburgh headquarters and will serve as the research and development center for Heinz's domestic and international operations.

The center, which is scheduled for completion by Jan. 1957, will contain a pilot plant, experimental kitchens, research laboratories, quality control laboratories, and the scientific library of the company's research and quality control division. After the completion of the

new facility, all laboratory and research activity will be gathered under one roof except for crop research, which will remain at the experimental farms in Ohio.

■ The Bell Aircraft Co., Inc., and the Nuclear Science and Engineering Corp., have announced that they have entered into an agreement through which Nuclear Science and Engineering will render nuclear assistance and advice to Bell. The purpose of this relationship will be to evaluate the applicability of nuclear techniques to Bell's present programs as well as the potential application of Bell's existing technical manpower and facility capabilities in the atomic energy field.

### Miscellaneous

■ The proceedings of the International Conference on the Peaceful Uses of Atomic Energy, held in Geneva in August 1955, will be published by the United Nations in 16 volumes of approximately 500 pages each. The volumes will constitute a complete, unabridged record of the conference, and will include all papers that were submitted, whether they were presented orally or not, together with a record of the discussions concerning each paper.

This record will be published in several languages; the English edition will be available in the beginning of 1956, the others at a later date still to be determined. Any of the individual scientific papers, in mimeographed form, may be purchased from the United Nations Bookshop at 25 cents each.

The following are the tentative titles for the proceedings, in chronological order by volume: The World's Requirements for Energy; The Role of Nuclear Power; Physics, Research Reactors; Power Reactors; Cross Sections Important to Reactor Design; Physics of Reactor Design; Geology of Uranium and Thorium; Nuclear Chemistry and the Effects of Irradiation; Production Technology of the Materials Used for Nuclear Energy; Reactor Technology and Chemical Processing; Radioactive Isotopes and Nuclear Radiations in Medicine; Biological Effects of Radiation; Radioactive Isotopes and Ionizing Radiations in Agriculture, Physiology, and Biochemistry; Legal, Administrative, Health and Safety Aspects of Large Scale Use of Nuclear Energy; General Aspects of the Use of Radioactive Isotopes, Dosimetry; Applications of Radioactive Isotopes and Fission Products in Research and Industry; and Record of the Conference.

A special prepublication price of \$110 (£39, F. 450 Swiss) for the full series

has been established. This will be protected for all advance orders received up to 31 Dec. 1955. Orders for the full series, or for individual volumes (final prices to be announced) may be placed with the United Nations sales agents or the United Nations Headquarters Bookshop, United Nations, N.Y.

■ *Results of 1954 Fungicide Tests*, a bound compilation of a series of articles that appeared in *Agricultural Chemicals*, April through June, may be purchased for \$1 from Dr. D. A. Roberts, College of Agriculture, Cornell University, Ithaca, N.Y. The publication of these results is under the sponsorship of the American Phytopathological Society. This year Roberts is in charge of the project, which is a continuation of the publication of results formerly provided through a supplement of the *Plant Disease Reporter* of the Plant Disease Epidemiology and Identification Section, U.S. Department of Agriculture.

■ Because of infestation by the European chafer, on 1 Sept. parts of Connecticut, New York, and West Virginia were placed under Federal quarantine restrictions by the U.S. Department of Agriculture. Woody and herbaceous plants of all kinds, parts of these plants, all types of soil, and other articles or materials likely to harbor this serious agricultural pest now require certification based on treatment, inspection, or nonexposure to infestation. The European chafer was first recognized in this country in New York in 1940; it was found in Connecticut in 1951, and in West Virginia in 1954. In the white grub stage, it is known to feed extensively on fine roots and root hairs of small grains, grasses, and clover and other legumes, seriously damaging pastures, lawns, and golf courses. Turf injury by the insect closely resembles that of such pests as the Japanese beetle, the rose chafer, and various species of white grubs. The adults, light tan beetles about 1/2-inch long, emerge in swarms at dusk in midsummer.

■ Hugo Freund has published in Germany an 8-volume *Handbook of Microscopy in Technology*. This series may be obtained from E. Leitz, Inc., New York, at \$30 to \$40 a volume.

■ Laboratories of the Department of Defense in New England have announced the availability of career opportunities for physical science and biological science administrators. The openings carry Civil Service ratings that range from GS-13 to GS-16; salary range is from \$8360 to \$12,000 per year. For information write to the Director, First U.S. Civil Service Region, Post Office and Courthouse Building, Boston 9, Mass.