

cal physicists to enable them to study and to conduct research at Princeton during the academic year 1956-57. Candidates must show evidence of ability in research comparable at least with that expected for the degree of doctor of philosophy. Blanks for application may be obtained from the School of Mathematics, Institute for Advanced Study, Princeton, N.J., and are returnable by 1 Jan. 1956.

■ The National Wildlife Federation has announced the availability of a series of graduate fellowships and undergraduate James Hopkins scholarships in conservation education for 1956-57. Applications for these fellowships and scholarships must be on file at the office of the National Wildlife Federation, 232 Carroll St., NW, Washington 12, D.C., by 31 Dec. Applications must show approval of the project by the head of the department in which the work is to be carried out.

These fellowships and scholarships are supported in part by the sale of the Wildlife Stamps issued annually by the National Wildlife Federation, by a permanent grant yielding a limited endowment, and by other income available to the federation, the amount of which cannot be determined before the beginning of the year. Awards granted in the past have ranged from \$500 to \$1000.

■ In the first decade of its existence the Life Insurance Medical Research Fund has given more than \$7 million for research in heart and circulatory diseases. Support has been given to 247 research programs and 302 fellowships. Grants and fellowships have aided research in 110 medical colleges, hospitals, and other institutions in the United States and Canada. The awards for 1955 total \$929,400, a record high. This includes \$816,200 for 66 research grants and \$113,200 for 27 fellowships.

The Life Insurance Medical Research Fund was organized in 1945 by several life insurance companies as a means of making joint contributions to medical research; it was the first agency to devote all of its resources to the support of heart research.

During the recent 10th anniversary luncheon, it was pointed out that results in the past 10 years have been encouraging. Fruitful means of attacking heart problems have been found, whereas 10 years ago a defeatist attitude was prevalent. In 1945 few scientists were interested in studying heart disease; today a large number of experts are at work in the field.

The speakers at the anniversary luncheon included Alan Gregg, vice president of the Rockefeller Foundation, and Francis R. Dieuaide, scientific director

of the fund. Dieuaide described a survey of current activities of 100 fellows whose awards were given 5 years ago and longer. About 60 percent are still engaged in research. Many of the remaining 40 percent have become heart specialists.

It also was announced at the luncheon that C. Sidney Burwell, professor of research medicine at Harvard Medical School, will be chairman of the fund's Scientific Advisory Council for 1955-56. There are three new members of the council: Louis S. Goodman, professor of pharmacology at the University of Utah; Henry A. Lardy, professor of biochemistry at the University of Wisconsin; and W. Barry Wood, Jr., vice president of Johns Hopkins University.

A full account of the work of the fund appears in the *Tenth Anniversary Report*. Copies may be obtained from the Scientific Director, Life Insurance Medical Research Fund, 345 E. 46th St., New York 17.

■ The National Institute of Mental Health has announced that 15 Dec. is the closing date for filing applications for grants under the National Mental Health Act for the year beginning 1 July 1956. Grants are made in support of training programs in psychiatry, clinical psychology, psychiatric social work, and psychiatric nursing. Applications may also be made by university training centers for the support of career teacher programs for the preparation of teaching personnel in the mental health disciplines.

The deadline date for filing applications for the support of pilot and evaluation studies proposing new methods of teaching, or evaluation of teaching and training methods in the mental health disciplines, is 15 Jan. 1956. Application forms and details regarding the types of support available may be obtained from the Chief, Training and Standards Branch, National Institute of Mental Health, Bethesda 14, Md.

■ The Social Science Research Council has announced the fellowships, grants-in-aid, and other appointments to be offered in 1956. Except as otherwise noted in the descriptions of certain programs, applications should be filed *not later than 9 Jan. 1956*, and awards will be announced on or about 2 Apr. 1956. Applications received after the closing date will receive attention only if time permits after consideration has been given to those previously filed. Fellowships and grants will be awarded only at the stated times, so that all applicants may compete on an equal basis.

Prospective applicants should obtain from the council the necessary application forms and detailed instructions well in advance of the closing date. In re-

questing these, it is essential to state age, place of permanent residence, academic status, present position or activity, and vocational aims; and to indicate briefly the nature of the training or research for which support is sought. Without all this preliminary information, it is often impossible to determine whether or not an application would be technically acceptable and, if so, which of several types of forms should be furnished. Needless correspondence can be avoided by careful compliance with this request. All communications should be addressed to the Social Science Research Council, 726 Jackson Place NW, Washington 6, D.C.

■ The National Foundation for Infantile Paralysis has announced that 151 students have been awarded scholarships to complete their study in physical therapy. These are in addition to 11 who received scholarship awards previously made in 1955.

The total number of physical therapy scholarships awarded by the National Foundation since 1942 is now 2365, for which almost \$3 million has been appropriated to date. The present scholarship students are residents of 34 states, the District of Columbia, and the Territory of Hawaii; they are studying in 25 schools of physical therapy.

In the Laboratories

■ A new section on animal care has been organized at Lakeside Laboratories, Inc., pharmaceutical firm in Milwaukee, Wis. Chief of the new section, which has been set up within the pharmacology division, is Ellsworth E. Thebert, veterinarian who recently joined Lakeside. He heads a staff of seven men.

■ The Southwest Research Institute, San Antonio, Tex., has announced the creation of a new electrical engineering department that will assume responsibility for certain research areas formerly included within the organization's physics department. Chairman of the new department will be William A. Mussen, supervisor of research and development in geophysics, electronic subminiaturization, ordnance instrumentation, and industrial process equipment design.

■ The Shell Chemical Corporation recently held a dedication ceremony for its new allyl chloride and chlorohydrins plant at Norco, La. The new plant makes Shell the country's largest supplier of glycerine. Two years ago the concern was making about one-fifth of the United States' output, it is now making more than one-third.

Further expansion of the plant is planned. The first addition, construction

of which will begin soon, will be a unit designed to make more than 30 million pounds a year of hydrogen peroxide. Ultimately, an acrolein unit and a unit designed to produce glycerine by an entirely new process utilizing hydrogen peroxide and acrolein will be built.

■ The Atomic Instrument Company, Cambridge, Mass., has acquired controlling interest in Kaye Development Company, Inc., South Norwalk, Conn., manufacturer of electronic color evaluation instruments and related detection devices.

■ The Hercules Powder Company has announced plans to enter a new field of chemistry with the construction of a plant at Parlin, N.J., for the production of a new type of high molecular weight polyethylene that is to be called Hyfax. The plant will have an annual capacity of approximately 30 million pounds.

The company has been licensed to use the Ziegler process for the low-pressure polyethylene. Although the new facilities will not be completed until late next year, Hercules expects to be able at the start of 1956 to distribute enough of the new-type polyethylene to permit orderly marketing of small tonnages.

This introductory material will be obtained under an arrangement with the Farbwerke Höchst AG in Germany. Höchst, one of the first companies to be licensed by Ziegler, is completing its commercial plant and will be in production in Germany early in 1956. Under its contract with Höchst, Hercules Powder Company will be able to eliminate the customary pilot-plant stage and immediately begin construction of a commercial plant.

The two contracts, one with Ziegler and the other with Höchst, climax more than 2 years of negotiations, engineering and research, and market analysis conducted by Hercules. The contract with Höchst also calls for continuing exchange of research information between the two companies.

Miscellaneous

■ The U.S. Civil Service Commission, in an effort to recruit a greater number of college-caliber people for careers in the Federal service, has introduced major changes in its college-level recruitment program. The new program, developed as a part of long-range plans to strengthen the career service, provides for a regular, balanced intake of college graduates at the entrance level in a wide range of occupational fields.

A number of civil service examinations previously open at the college level have been consolidated into a single Federal

Service Entrance Examination that was opened for receipt of applications on 18 Oct. Under this program, the student who applies will be required to take only one examination, which will be appropriate for the great majority of the entrance-level positions in the Federal service.

The Federal Service Entrance Examination is open to all college seniors and graduates regardless of the field of major study and to college-caliber people who have had equivalent experience. However, students interested and qualified primarily in engineering and the physical sciences will continue to be recruited through separate examinations that do not require a written test.

The first written test for the Federal Service Entrance Examination will be held on 10 Dec. for those who apply by 18 Nov. Additional written tests will be given every few months or as the needs may require; applications will be received until further notice. Interested persons may obtain copies of the examination announcement and application forms from the U.S. Civil Service Commission, Washington 25, D.C.

■ *Summary of Survey of Philanthropic Foundations*, a 32-page pamphlet that is excerpted from the seventh edition of *American Foundations and Their Fields*, by Wilmer Shields Rich, is available from the American Foundations Information Service, 860 Broadway, New York 3.

■ A memorial scholarship in botany is being established at Butler University in memory of the late head of the botany department and recent president of the Ecological Society of America, John E. Potzger. Checks payable to the J. E. Potzger Memorial Scholarship Fund should be sent to the Botany Department, Butler University, Indianapolis 8, Ind.

■ A special grant from the Rutgers Research and Endowment Foundation, together with the cooperation of the Williams and Wilkins Company and the Rutgers University Press, has made it possible to offer copies of the following books by S. A. Waksman for free distribution to established libraries, hospitals, and other institutions: *Streptomycin, Nature and Practical Applications* and *Literature of Streptomycin*. Requests should be addressed to R. A. Day, Librarian-Editor, Institute of Microbiology, Rutgers University, New Brunswick, N.J.

■ Applications are now open to college and university faculty members for places in the Oak Ridge research participation program for 1956. Administered by the Oak Ridge Institute of

Nuclear Studies in cooperation with Oak Ridge National Laboratory, the program is designed to disseminate scientific and technical information to educational institutions by enabling faculty members to spend varying amounts of time—usually the three summer months—conducting research in Oak Ridge laboratories. The participant's Oak Ridge salary approximates his university salary.

Applications for 3-month summer appointments in 1956 should be in the hands of the University Relations Division, Oak Ridge Institute of Nuclear Studies, Box 117, Oak Ridge, Tenn., by 15 Dec. Notifications of appointment will be made by 15 Feb.

■ In recognition of the 400th anniversary of the death of Georgius Agricola (Georg Bauer), German scholar and scientist, on 21 Nov., the November issue of *The Scientific Monthly* includes a portion of the introduction to Agricola's classic work, *De Re Metallica*, that was translated from the Latin in 1912 by Herbert C. and Lou H. Hoover. The cover illustration of this issue is a reproduction of one of the woodcuts that appeared in *De Re Metallica*.

Among the other articles included in the November issue are "Pan-Indian culture of Oklahoma," James H. Howard; "Lost art of strad varnish," Joseph Michelman; "Structure of a classic raw material," H. H. Bosshard; "Modern science and refutation of the paradoxes of Zeno," Adolf Grünbaum; "Radiocarbon dating in the light of stratigraphy and weathering processes," Charles B. Hunt; and "The garter snake," Charles C. Carpenter. Sixteen books are reviewed.

■ The South Asia Science Co-operation Office of the United Nations Educational, Scientific and Cultural Organization has been producing a *Bibliography of Scientific Publications of South Asia* (India, Burma, Ceylon) since 1949 and thus far 11 issues have been printed. Although this bibliography has been distributed to many libraries throughout the world, it is felt that there still may be some libraries that would like to receive the work. A fairly large number of back issues are available from the UNESCO South Asia Science Co-operation Office, C.S.I.R. Bldg., Old Mill Rd., New Delhi 2, India.

After issue No. 12 of the Bibliography, which will complete the year 1954, a new arrangement will be put into effect under which the Science Co-operation Office will continue to prepare the material but printing and distribution will be undertaken by the Indian National Scientific Documentation Centre. When the new plan is instituted, it will be necessary to charge for the publication. The cost will be Rs. 10 per year covering 4 parts.