

GEORGE M. REED, Pittsburgh, Pa.; 78; curator emeritus of the Brooklyn Botanic Garden; 30 June.

GEORGE I. SWETLOW, Brooklyn, N.Y.; 57; professor of medical jurisprudence at the Brooklyn Law School; lecturer on neuroanatomy at the Long Island College Hospital; 20 Aug.

Education

■ New York University has commissioned a 65-foot schooner, the *Action*, for oceanographic research. The following studies are among those planned for the *Action*:

1) Air-sea boundary processes, including the exchange of energy between the atmosphere and the oceans and oceanic effects on long-range weather forecasting.

2) Solar radiation, including the question of how much of the sun's energy penetrates the sea and how much is reflected. Knowledge of the water-air "heat exchange" is expected to help improve weather forecasting.

3) Evaporation from water surfaces under different weather and sea conditions.

4) Exchange of water masses between the open sea and Long Island Sound and other landlocked water bodies in the New York area. This study would give—besides the basic hydrographic information—clues to the solution of such problems as water pollution and the washing away of certain mainland and island coasts by tides and other currents.

5) Offshore land-sea breezes. These occur, for example, in the summer when warm air rising off the land brings in cool breezes in the afternoon. At shore areas, offshore breezes cause an upwelling of cold water from lower layers of the ocean. More information about this would aid water-temperature forecasting for bathing and fishing purposes.

■ The National Science Foundation has granted \$545,000 to the University of Michigan for studies leading to the establishment of an observatory. The studies, under the direction of Robert R. McMath, director of McMath-Hulbert Observatory, are a continuation of work undertaken last year by the university with previous grants from the foundation.

■ American Cyanamid Company's Lederle Laboratories and Research Divisions held "An Evening of Science" at Pearl River (N.Y.) High School recently to stimulate scientific interest in students of 27 high schools. An elaborate display included such diverse exhibits as microscopes and specially prepared slides, live mice, chick embryos, and petri dishes showing the growth of antibiotic-producing molds.

■ The U.S. Navy has established a work-study scholarship plan for high-school graduates in an effort to relieve the shortage of engineers and scientists. Under the plan, students will combine work at naval installations with scientific study at colleges. The Navy will provide partial scholarships for the study phase, as well as a government salary during both the work and study periods. In return students agree to continue after graduation as naval-civilian employees for a minimum of 1 year for each year of training received. For information, write to the Office of Industrial Relations, Navy Department, Washington 25, D.C.

■ St. John's College, Annapolis, Md., is to have a new science building that will house ten laboratories, 20 special-project rooms, and a planetarium. Construction is being financed with the aid of grants totaling \$1.25 million from the Old Dominion Foundation of New York.

Grants, Fellowships, and Awards

■ The U.S. Public Health Service has organized a program to provide specialized training in steroid investigation. The National Cancer Institute has established grants for a joint training program in steroid biochemistry to be conducted at Worcester, Mass., and at Salt Lake City, Utah, through the cooperative effort of the Worcester Foundation for Experimental Biology, Shrewsbury, Mass., with the department of chemistry at Clark University, Worcester, and the department of biochemistry at the University of Utah College of Medicine. Two types of fellowships are planned: a 1-year program, carrying a stipend of \$5000, for candidates who hold an M.D. or a Ph.D. degree; and a 6-month, \$1500 program for candidates having a B.S. or M.S. degree in chemistry, or in medical technology or an equivalent.

The postdoctoral fellowship is intended for scientists who contemplate research involving steroid techniques and who wish to obtain a broad experience. During a portion of the year such fellows may initiate work on their particular problems under the guidance of established investigators.

The predoctoral program is primarily for training in the analytic determination of various steroids. Trainees completing the 6-month program will be able to carry out such determinations competently, either in connection with a research program or for diagnostic purposes. Both training programs will include theoretical and practical considerations as well as experience in specialized techniques.

The first groups will begin on 1 Jan. 1957 at Salt Lake City, and 1 Feb. 1957

at Worcester. In both cases the closing date for application is 1 Nov. 1956. For more information about the program, communicate with Dr. Kris Eik-Nes, Department of Biochemistry, College of Medicine, University of Utah, Salt Lake City, or Dr. Frank Ungar, Worcester Foundation for Experimental Biology, Shrewsbury, Mass.

■ The North Atlantic Council has approved for the second year a NATO-sponsored fellowship and scholarship program designed to encourage study and research in subjects of mutual interest to NATO members. Areas of study include social, cultural, and scientific fields. The application deadline is 1 Nov. for the two categories of awards specified:

1) Research fellowships, for 2- to 4-month periods, to candidates of recognized stature. Submit applications to the Conference Board of Associated Research Councils, 2101 Constitution Ave., NW, Washington 25, D.C.

2) Scholarships to younger scholars for the 1957-58 academic year. Apply to the Institute of International Education, 1 E. 67 St., New York 21, N.Y.

■ The National Institute of Neurological Diseases and Blindness has announced that funds are being made available to medical schools to strengthen existing clinical programs in advanced training in the neurological diseases. The purpose is to stimulate the interest of more young physicians and scientists in careers as teachers and investigators.

Training grants also are available to basic science departments to expand postdoctoral training programs in the neurological sciences. Further information, together with application forms, may be obtained from the Chief, Extramural Programs, National Institute of Neurological Diseases and Blindness, National Institutes of Health, Bethesda 14, Md.

■ The Division of Medical Sciences of the National Academy of Sciences-National Research Council will accept applications for postdoctoral research fellowships for 1957-58 until 1 Dec. The fellowships are awarded in the early spring. Complete details and application blanks may be obtained from the Division of Medical Sciences, National Academy of Sciences-National Research Council, 2101 Constitution Ave. NW, Washington 25, D.C.

The following groups of fellowships are awarded and administered by the division's Medical Fellowship Board: (i) *National Research fellowships in the medical sciences*, supported since 1922 by the Rockefeller Foundation; (ii) *Donner fellowships for medical research*,