

foreign projects manager for M. W. Kellogg Company; 1 July.

CARL T. SCHWARZE, Greer, S.C.; 78; emeritus professor of civil engineering at New York University; 28 June.

HOMER R. SEELY, Woodbury, N.J.; 58; civil engineer; 23 June.

JOSEPH F. TAYLOR, Rochester, N.Y.; 67; chairman of the board and former president of the Bausch & Lomb Optical Co., 13 June.

EMANUEL WALDINGER, Old Saybrook, Conn.; 57; former medical director of the Saybrook Rehabilitation Center; 30 June.

PHILIP ZENNER, Cincinnati O., 104; professor emeritus of neurology at the University of Cincinnati; 25 June.

Education

■ The Carnegie Corporation of New York has awarded \$277,000 to the University of Illinois Committee on School Mathematics so that it may continue its work of devising a new mathematics course for the four high-school years, preparing classroom materials and teachers' manuals, and conducting teacher training courses on new teaching techniques to be developed. The 4-year-old program, in which mathematics is treated as an integrated body rather than as a group of isolated courses, is directed by a committee composed of representatives of the colleges of education, engineering, and liberal arts and sciences at Illinois. Its staff is already experimenting with curriculum changes for high-school freshman, sophomore, and junior classes, and is testing new materials in five different high schools in Illinois and Missouri, with the cooperation of 14 teachers and almost 500 students.

■ The department of natural sciences of Hofstra College has announced that in September the department of geology will become the department of geology and geography. Roger H. Charlier, now acting chairman of the department of geology, will become chairman of the new department.

■ A recent innovation at the Worcester Foundation for Experimental Biology, Shrewsbury, Mass., has been its Summer Science Program for high school students. This involves a collaborative arrangement with St. Marks School in Southboro, Mass., wherein selected students are lodged at the school for a 10-week term.

An intensive course of lectures and laboratory work in chemistry and biology is given to a junior group in the first summer. In a second summer the group which has had the first summer's work is assigned to the foundation laboratories

for work on specific research problems. This is part of a program designed to interest secondary school students in a scientific career.

Grants, Fellowships, and Awards

■ The John A. Hartford Foundation has granted \$159,000 to the New York University-Bellevue Medical Center to support studies of pancreatitis, a disease that, in acute form, has a mortality rate of about 50 percent.

■ The first payment by the Ford Foundation under its endowment program to help raise faculty salaries was made the first week in July. Six hundred thirty colleges and universities received checks totaling \$130 million, which is half of the total grant. The program includes all 4-year regionally accredited, privately supported colleges and universities that offer degrees in the liberal arts and science or bachelor's degrees in professional fields. In a second program, 126 of these institutions will receive accomplishment grants as well.

■ The Philadelphia College of Physicians and Surgeons has awarded the 1956 Alvarenga prize to G. N. Papanicolaou, Cornell University Medical College, for his work in the early detection of cancer. Pedro Francisco DaCosta Alvarenga of Lisbon, Portugal, established the prize to be awarded yearly on the anniversary of his death, 14 July 1883.

■ The Population Council, Inc. of New York is offering fellowships for advanced training in the study of population at the predoctoral and postdoctoral levels. Fellowships are available for study both in the United States and abroad; the awards will be divided between students from the United States and those from other countries. An applicant may select his own university.

Fellows will normally receive support for full-time study for a period of 1 year. The basic stipend of \$2500 per year may be supplemented to provide for maintenance of dependents, and especially in the case of foreign students, for travel and exceptional expenses. The amount may be diminished in accordance with lesser need or partial support from other sources. Somewhat larger stipends may be granted to postdoctoral than to predoctoral fellows.

Preference will be given to candidates who are not over 40 years of age. Applications for 1957-58 should be received *before 1 Mar. 1957*. Requests for further information and for application forms should be addressed to the Population Council, Inc., 230 Park Ave., New York 17, N.Y.

■ The American Academy of Arts and Sciences invites applications for grants from its Permanent Science Fund. Awards are made in support of research in any field of science whatsoever in amounts that ordinarily do not exceed \$1500. Applications for grants to be made in the early fall should be filed *by 1 Sept.* on forms available from the Chairman, Permanent Science Fund Committee, American Academy of Arts and Sciences, 77 Massachusetts Ave., Cambridge 39, Mass.

Special consideration will be given to projects on new frontiers of science; those that lie between, or include, two or more of the classical fields; and those proposed by investigators who may be on the threshold of investigational careers or who are handicapped by inadequate resources and facilities. The committee does not ordinarily approve grants for research the results of which constitute partial fulfillment of requirements for an academic degree.

■ The Research Corporation has granted \$247,775 for basic research in science to 72 colleges and universities in the United States and three in Canada. The corporation, which was established in 1912 by F. G. Cottrell, has distributed a total of \$8.5 million.

■ New York University has received a grant of \$70,000 from the Rockefeller Foundation in support of a study of public attitudes toward science reporting. The project, which is an extension of a pilot study begun last year, is jointly sponsored by the university and the National Association of Science Writers.

■ Forty fellowships for graduate students specializing in services for the blind have been established by Columbia University and the New York Guild for the Jewish Blind. Recipients will get \$1200 for each of 2 years of study. They will be enrolled at the university's New York School of Social Work and will attend workshop classes at the guild center. The \$96,000 program is to be offered over a 5-year period beginning this fall, when six students will be admitted to study under the plan.

In the Laboratories

■ The formation of the first scientific organization in the United States designed expressly to conduct research and development in interplanetary space travel has been announced by John L. Barnes, president of the newly established Systems Laboratories Corporation, Los Angeles, Calif. Barnes is a professor of engineering at the University of California, Los Angeles. The corporation has been