

appointed assistant administrator of the Agricultural Research Service. He succeeds GUIDO E. HILBERT, who recently was appointed director of the Foreign Research Contracts and Grants Program. FREDERIC R. SENTI has been named acting director of the Northern Utilization Research Laboratory.

PETER C. KRONFELD, professor of ophthalmology at the University of Illinois College of Medicine, has been appointed head of the department of ophthalmology and ophthalmologist-in-chief at the university's hospital and at the Illinois Eye and Ear Infirmary.

FREDERICK C. NACHOD, director of the physical chemistry laboratory at Sterling-Winthrop Research Institute, New York, and adjunct professor of chemistry at Rensselaer Polytechnic Institute, has been awarded the Order of Merit of France's Society for Encouragement of Research. The award is offered annually and is sponsored jointly by France's Ministries of Education, Industry, Commerce, and Public Health.

HERBERT C. BROWN, professor of chemistry at Purdue University and a specialist on the chemistry of boron jet-fuel material, has received the 1959 William H. Nichols Medal of the American Chemical Society's New York Section.

The following scientists were among the recipients of the 1958 Borden awards. These awards, consisting of a gold medal and \$1000, are administered by professional and scientific associations. The 1958 winners were:

WILLIAM G. GORDON, supervisory chemist, Eastern Regional Research Laboratory, U.S. Department of Agriculture, the American Chemical Society award for contributions in the fundamental chemistry of milk products.

W. JAMES HARPER, associate professor of dairy technology, Ohio State University, the American Dairy Science Association award for contributions in dairy bacteriology and biochemistry.

JAY L. LUSH, professor of animal husbandry, Iowa State College, the American Dairy Science Association award for research in the genetics and breeding of dairy cattle.

MAY S. REYNOLDS, professor of foods and nutrition, University of Wisconsin, the American Home Economics Association award for research in protein metabolism.

LEMUEL D. WRIGHT, professor of nutrition, Graduate School of Nutrition, Cornell University, the American Institute of Nutrition award for the development of new microbiological assay procedures for various vitamins and the discovery of biocytin.

CHARLES D. MAY, clinical profes-

sor of pediatrics, College of Physicians and Surgeons, Columbia University, the American Academy of Pediatrics award for his contribution to long-term metabolic studies of infants fed with human milk.

CHESTER A. MANTHEI, U.S. Department of Agriculture, Beltsville, Md., the American Veterinary Medical Association award for research in the control and eradication of brucellosis in dairy cattle.

CURTIS B. THORNE, supervisory biochemist at the Army Chemical Corps Biological Warfare Laboratories, Fort Detrick, Frederick, Md., has received the 1959 Waksman Award of the Theobald Smith Society, which is the New Jersey section of the Society of American Bacteriologists.

The following scientists are among the winners of the National Civil Service League's fifth annual Career Service Awards. The league is a nonpartisan organization of citizens for good government. It makes the awards to federal employees "who exemplify the highest characteristics of public service." The winners were honored at a dinner on 2 March in the Sheraton Park Hotel, Washington, D.C.

LYLE T. ALEXANDER, chief of the Soil Survey Laboratories, Soil Conservation Service, Department of Agriculture. A government employee for 30 years, he has made outstanding contributions in the fields of soil management, soil genesis, clay minerals, and radioactive materials.

JOHN B. BARNWELL, assistant chief medical director for research and education, Veterans Administration. He organized a model cooperative study of the chemotherapy of tuberculosis that "improved the treatment of TB and saved many lives and millions of dollars." In federal service for 16 years, he is now directing an extensive medical research program.

PAUL W. McDANIEL, deputy director, division of research, Atomic Energy Commission. In federal service 16 years, his efforts have "contributed much to the proper organization and operation of the Atomic Energy Commission to meet the challenges of new discoveries."

RICHARD A. WEISS, scientific director, Army Research Office, office of the chief of research and development, Department of the Army. He has "significantly advanced our defense capabilities, in such fields as optics, nucleonics, and electronics, and has encouraged the youth of the Nation to develop scientific talent."

CONRAD L. WIRTH, director, National Park Service, Department of the Interior. His citation reads: "Having de-

voted 30 years of public service to the conservation of the Nation's human, cultural, and natural resources, Wirth has given new vitality to the whole program of the National Park Service."

Recent Deaths

CORNELIA C. BRANT, New York; 95; formerly dean of the New York Medical College and Hospital for Women (now consolidated with Flower and Fifth Avenue Hospitals); one of the first three women named to a public hospital staff in New York; 9 Mar.

MYRON GORDON, New York; 59; geneticist and principal investigator for the National Cancer Institute; genetics associate of the American Museum of Natural History, the New York Zoological Society, and the New York Aquarium; taught at New York University and at Columbia University; 12 Mar.

WILFRID J. JACKSON, New Brunswick, N.J.; 58; specialist on radar; chairman of the physics department at Douglass College, since 1946; head of the scientific division of the New York branch of the Office of Naval Research in 1950; formerly associate professor in the radar school of Massachusetts Institute of Technology; had taught at Princeton and Rutgers universities; 13 Mar.

JOHN C. KELLER, Utica, N.Y.; 60; chairman of the chemistry department at Utica College since its establishment in 1946; had been director of the chemistry department at Muhlenberg College for 20 years; 10 Mar.

WARREN W. McSPADDEN, New York; 55; general manager and assistant treasurer of the American Society for the Prevention of Cruelty to Animals; formerly supervisor of sciences in the public schools of Austin, Tex.; had taught at Teachers College, Columbia University; 12 Mar.

EVERETT I. YOWELL, Cincinnati, Ohio; 89; retired in 1940 as head of the astronomy department and as director of the observatory at the University of Cincinnati; vice president of section D of the AAAS in 1939; faculty member of the mathematics department of the U.S. Naval Academy, 1901-09; 12 Mar.

WILLIBALD WENIGER, Corvallis, Ore.; 74; retired in 1949 as dean of the Oregon State College Graduate School; had been connected with the university for 35 years; professor of physics and acting director of agriculture, forestry and engineering at Idaho State College, 1956; head of the physics and electrical engineering departments at the University of Alaska, 1951-55; 13 Mar.

Erratum: The item on the cloud-cover satellite [*Science* 129, 628 (1959)] gave a perigee of 929 miles. The correct figure as of 17 March is 350 miles.