

Recent appointments to the staff of the National Bureau of Standards are as follows. WILLIAM S. CONNOR will work in the statistical engineering section of the applied mathematics division on the application of modern probability and statistical methods to the physical sciences. He was previously employed at NBS from 1951 to 1954.

JULIAN F. SMITH will extend the present scope of the instrumentation reference service of the office of basic instrumentation. Prior to his appointment, he spent 4 years as a documentation and technical information service consultant, largely at the Library of Congress.

FRANK A. GRANT, who formerly was an assistant professor of physics at the University of Maryland, will do research in the mineral products division on the semiconducting properties of titanium dioxide and titanates.

At the cryogenic engineering laboratory of the Boulder laboratories of the bureau, ROBERT B. JACOBS has been appointed chief of the cryogenic equipment section, replacing BASCOM W. BIRMINGHAM who has been made chief of the cryogenic processes section.

WILLIAM D. GRAY has been named head of experimental pharmacology in the research division, American Cyanamid Company, at Lederle Laboratories, Pearl River, New York. He was formerly group leader in pharmacological research.

G. ARTHUR COOPER has been appointed head curator of the U.S. National Museum's department of geology. He will continue to serve as curator of invertebrate paleontology and paleobotany, a position he has held since 1943.

JOHN A. CLARK, a member of the Massachusetts Institute of Technology faculty since 1949, has been appointed professor of mechanical engineering at the University of Michigan and will start with the second semester of 1956-57.

JOHN J. DENTON has been named director of organic chemical research at the Pearl River laboratories of the American Cyanamid Company. He was formerly technical director of Cyanamid's fine chemicals division.

Two Netherlands visiting professors have been announced by the University of Michigan. J. DROOGLEEVER FORTUYN, professor of neurology at the University of Groningen, will join the department of anatomy of the University of Michigan Medical School from January to June 1957; and M. G. RUTTEN, professor of physical geology at the University of Utrecht, will serve in the

department of geology, College of Literature, Science and the Arts, for the 1957-58 university year.

JOSE DEL CASTILLO, professor of biophysics at University College, London, England, has been appointed visiting professor of physiology at the State University College of Medicine in Brooklyn for 1 year beginning 1 Sept.

J. C. HACKLEMAN, University of Illinois professor of crops extension, will retire from the university staff on 1 Sept., to join the staff of the Illinois Crop Improvement Association as its public relations officer.

WILLIAM F. MANN, JR., will be the new head of the Southern Forest Experiment Station's research center at Alexandria, La. He succeeds JOHN T. CASADY, who will take charge of the East Gulfcoast Research Center in western Florida and southern Alabama.

RANDOLPH T. MAJOR, former scientific vice president of Merck and Company and more recently in an advisory capacity at Merck, has been appointed professor of chemistry at the University of Virginia.

Recent Deaths

ELMER C. BERTOLET, Sr., Philadelphia, Pa.; 68; director of chemical laboratories at the Research Institute of Temple University; 16 July.

CHARLES W. BONNEY, Germantown, Pa.; 82; professor and surgeon on the staff of Jefferson Medical College; 21 July.

A. NOWELL CREADICK, Durham, N.C.; 73; clinical professor emeritus of obstetrics and gynecology at Yale University Medical School; 23 July.

JOHN P. DERINGER, Los Angeles, Calif.; 53; metallurgist; 20 July.

CARL R. ENGLUND, Fullerton, Calif.; 71; expert on radiotelephony; retired member of the staff of Bell Telephone Laboratories; 22 July.

RICHARD W. FESSENDEN, Amherst, Mass.; 54; professor of chemistry at the University of Massachusetts; 23 July.

MALCOLM GOODRIDGE, New York, N.Y.; 83; former professor of clinical medicine at Cornell University Medical College; 23 July.

ARTHUR D. HOLMES, Amherst, Mass.; 71; professor emeritus of chemistry at the University of Massachusetts; 18 July.

ELIHU KATZ, New York, N.Y.; 68; professor of gastroenterology of the New York Polyclinic Hospital; 20 July.

PIERRE J. RABIL, Washington, D.C.; 43; assistant professor in surgery at Georgetown University Medical Center; 23 July.

ALEXANDER RICE, Newport, R.I.; 80; founder of the Institute of Geographical Exploration and professor emeritus of geographic exploration at Harvard University; 23 July.

FRANCIS B. TRUDEAU, Sr., Saranac Lake, N.Y.; 69; authority on tuberculosis; 20 July.

MANFRED WAHL, Germantown, Pa.; retired microbiologist; 7 July.

LIGHTNER WITMER, Devon, Pa.; 89; founder of the psychological clinic at the University of Pennsylvania and its director for 35 years; former member of the faculty at Bryn Mawr College and Lehigh University; 19 July.

Education

■ A program for advanced training of psychiatrists in New York State's mental hygiene institutions will be started in September. The program will be under the joint direction of the State University of New York and the New York State Department of Mental Hygiene. In its initial phase, it will provide training for medical staffs of six mental hygiene institutions in the metropolitan area in cooperation with the faculty of the State University Medical School at Brooklyn. A similar program also is planned for staffs of mental hospitals upstate. This will be centered around the State University's Medical School at Syracuse.

■ A new graduate program in nautical engineering, leading to the degree of master of science, will be started in September by the Stevens Institute of Technology. The new program, with classes to be held in the evening, is designed to help ship designers fulfill present-day demands for vessels that will travel at high speeds in rough, as well as smooth, seas. The staff, consisting of members of the regular Stevens faculty and the group at the institute's Experimental Towing Tank Laboratory, will teach recently developed techniques in fluid dynamics, statistical methods, dynamical structural analysis, and model testing.

■ The science consultant program of the University of Texas, which was established by a grant from the AAAS has added two consultants to its field staff. They are Alan Humphreys, formerly a science teacher at Belton High School, and John Wagner, formerly a mathematics teacher at Kerrville High School. Humphreys and Wagner, together with Wayne Taylor, who is executive direc-