

The following men have joined the staff of the year-old department of scientific research at Convair Division of General Dynamics Corporation, San Diego, Calif.:

JOHN E. NAUGLE, formerly of the University of Minnesota, senior staff scientist in physics; ORLO MYERS, formerly of the Stanford Research Institute, senior staff scientist in chemistry; HAROLD A. PAPA ZIAN, formerly of the Raytheon Manufacturing Company, staff scientist in physical chemistry; EUGENE J. PUTZER, formerly of Macalester College, staff scientist in mathematics; and ROBERT J. GOOD, formerly of the University of Cincinnati, staff scientist in chemistry.

MINOR I. HUGHES, formerly senior staff engineer and project leader in the Franklin Institute Laboratories, Philadelphia, Pa., has been named chief of the laboratories' machine development section. He succeeds WILLIAM W. DICKHART, III, who resigned to work with another organization. In his new position, Hughes will plan, direct, and coordinate projects requiring research, design, and development of machines and machine components.

B. D. THOMAS has succeeded CLYDE WILLIAMS, president of Battelle Memorial Institute, Columbus, Ohio, as director of Battelle's extensive research operations in the United States and Europe. Thomas, who is vice president of Battelle, has been a member of the institute's executive and technical staff since 1934.

JOHN H. EISEMAN of the gas chemistry section of the National Bureau of Standards has been given the Award of Merit of the operating section of the American Gas Association. Eiseman's work at NBS centers around research on the physical and chemical properties of fuel gases. Much of this work has been in association with the American Gas Association, with whom the bureau has cooperated for more than 30 years.

PAUL A. LEMBCKE, associate professor at the Johns Hopkins University School of Hygiene and Public Health, recently returned from Manila, where he was visiting professor of both epidemiology and hospital administration at the Institute of Hygiene, University of the Philippines. During his visit, which was supported by the World Health Organization and the Rockefeller Foundation, Lembcke surveyed the government hospital system and the teaching of public health, investigated an apparently new disease, Philippine hemorrhagic fever, and examined health conditions in the remote Sulu Archipelago.

FRANÇOIS N. FRENKIEL, member of the principal staff of the Johns Hopkins University Applied Physics Laboratory, Silver Spring, Md., has been appointed consultant to the Applied Mathematics Laboratory of the David Taylor Model Basin, Washington, D.C. He will continue a part-time association with the Applied Physics Laboratory, which is sponsoring a new series of monographs on applied mathematics and mechanics under his editorship.

HOWARD A. ROBINSON has been named chairman of the physics department at Adelphi College. He replaces ALBERT C. KRUEGER, chairman since 1949, who is leaving to enter industry. The new department head joins Adelphi after having served since 1952 as first secretary of the United States Embassy in France and as special assistant on scientific matters to the U.S. Ambassador.

HERBERT J. DUTTON, head of the Forage and Agricultural Residues Section of the Northern Utilization Research Branch, Agricultural Research Service, U.S. Department of Agriculture, Peoria, Ill., has won first award of \$1000 and an honor plaque in the 1956 glycerine research award contest of the Glycerine Producers' Association. The association makes these awards annually in recognition of new and independent research contributing to knowledge and use of glycerine. Dutton's award-winning accomplishment was the application of a recently developed extraction technique to investigate complex natural glycerides such as linseed oil.

DONALD B. ZILVERSMIT, professor of physiology at the University of Tennessee Medical Units in Memphis, won the second award (\$300 and an honor plaque) for his use of glycerine as a suspension medium in preparing high-caloric fat emulsions for intravenous injection.

STANLEY G. KNIGHT, professor of bacteriology at the University of Wisconsin, received the third award (\$200 and an honor plaque) for his research establishing a glycerine derivative, triacetin, as a new fungicide.

J. H. McLEOD, dean of the University of Tennessee College of Agriculture, retired from the university on 29 Jan. He was succeeded by WEBSTER PENDERGRASS, agronomy specialist at Tennessee.

D. A. WORCESTER retired from the department of educational psychology and measurements at the University of Nebraska on 1 Feb. He has accepted an appointment as visiting professor at the University of Wisconsin.

F. J. REITHEL has been appointed professor and head of the department of chemistry at the University of Oregon, Eugene. In the same department, TERRELL HILL has been appointed professor of chemistry. He will transfer from the Naval Medical Research Institute on about 1 July.

CHARLES N. MOORE, professor emeritus of mathematics and fellow in the University of Cincinnati's Graduate School of Arts and Sciences, has been appointed visiting professor of mathematics at the University of South Carolina, Columbia.

J. ROBERT OPPENHEIMER, director of the Institute for Advanced Study at Princeton, N.J., has received the Drexel Institute's annual science and engineering award. He was cited for his "major contributions in the field of theoretical physics and in the organization and administration of scientific research . . . and in appreciation of the challenge given the world to use science in a spirit of benevolence for the betterment—not the destruction—of mankind."

VICTOR H. HAAS, microbiologist and director of the National Institute of Allergy and Infectious Diseases, Bethesda, Md., since 1948, will return to laboratory research at that institute. He will be succeeded by JUSTIN M. ANDREWS, now associate chief of programs in the Public Health Service's Bureau of State Services. The changes will become effective in April.

Recent Deaths

FRED R. BEAUDETTE, New Brunswick, N.J.; 59; professor of animal pathology at the College of Agriculture, Rutgers University; 16 Jan.

DION K. DEAN, Rahway, N.J.; 72; former head of the industrial division of the Foster Wheeler Corporation; 7 Feb.

RAYMOND E. KIRK, Brooklyn, N.Y.; 66; dean of the graduate school of the Polytechnic Institute of Brooklyn; 6 Feb.

DOUGLAS D. R. MacCALMAN, London, England; 53; professor of psychiatry at Leeds University; 31 Jan.

ISADOR RIPPS, Plainfield, N.J.; 54; assistant professor of clinical medicine at New York University—Bellevue Medical Center; 17 Jan.

W. HENRY RIVARD, Providence, R.I.; 73; dean of the Rhode Island College of Pharmacy; 5 Feb.

ALBERT C. SCHAEFFER, Madison, Wis.; 49; professor of mathematics and chairman of the department at the University of Wisconsin; 2 Feb.