

LAURITS BJERRUM and GIULIO PIZZETTI have been appointed visiting professors in the department of civil engineering at Massachusetts Institute of Technology. Bjerrum, named visiting professor of soil mechanics, has been director of the Norwegian Geotechnical Institute in Oslo since 1951.

Pizzetti is an engineer specializing in concrete structures. He will work with the departments of architecture and civil engineering as visiting professor of structural engineering. He has taught at both the Polytechnic Institute of Turin, Italy, and at the School of Architecture, University of Buenos Aires. He is a member of the Italian National Council of Research and has published many papers on the subject of structures, thin shells, and pre-stressed concrete.

CLAUDE E. SHANNON, professor of mathematics at Massachusetts Institute of Technology, has received the 1956 Research Corporation award for his work in establishing a mathematical theory for communications. The award consists of an honorarium of \$2500, a plaque, and a citation.

The theory, called the "information theory," is concerned with the most efficient way to carry out the communicating process between both man and machine and man and man. Although still theoretical, the procedure has applications in the fields of television, radio, and computing machines.

JOSEPH L. MORSE has been named professor and director of the department of dermatology at New York Medical College, Flower-Fifth Avenue Hospital. He has been a member of the faculty at New York Postgraduate Medical School, New York University-Bellevue Medical Center, for 30 years and associate clinical professor of dermatology there since 1950.

JOHN PAUL of the University of Glasgow, Scotland, will direct the Tissue Culture Association's course on the principles and techniques of cell and tissue culture that is to be given at the University of Colorado School of Medicine, Denver, 1-26 July.

ROSS A. McFARLAND, associate professor of industrial hygiene at the Harvard School of Public Health, has received the 1956 John Jeffries award of the Institute of the Aeronautical Sciences "for outstanding contributions to the advancement of aeronautics through medical research." McFarland is a physiologist whose name has long been associated with the development of biotechnology, the epidemiological approach to accidents involving human beings and machines.

JOHN T. RANDALL, F.R.S., Wheatstone professor of physics and honorary director of the Biophysics Research Unit of the Medical Research Council, King's College, University of London, is spending 5 months as visiting lecturer in the Laboratory of Developmental Biology at the Rockefeller Institute for Medical Research, New York.

FRANCIS O. RICE, head of the department of chemistry at the Catholic University, has won the 1957 Hillebrand award of the American Chemical Society's Washington, D.C., section. The award will be presented on 14 Mar. at a special dinner in the Kennedy-Warren Hotel, Washington. In his award address Rice will discuss his 25 years of work on free radicals.

An expert on the structure of matter, Rice was one of the first chemists to stress the importance of free radicals in certain chemical reactions. The methods which he has proposed to measure the products formed when organic substances are broken down have gained wide attention. On the basis of his research a whole chapter in modern chemistry is being reformulated.

Three promotions on the research staff of the General Motors Corporation, Detroit, Mich., have been announced by Lawrence R. Hafstad, vice president in charge of research. JOHN M. CAMPBELL, who has been technical director since 1954, has been named scientific director; in this newly created position he will serve as Hafstad's principal assistant.

ARTHUR F. UNDERWOOD, who has headed the mechanical development department, was elevated to manager of research staff activities. GREGORY FLYNN, JR., succeeds Underwood.

The promotions result from the retirement on 1 Mar. of ALFRED L. BOEGEHOLD, manager of research activities and principal assistant to Hafstad. Boegehold will continue as a consultant to the research staff following his retirement. He has been with General Motors for 36 years.

EUGENE B. FERRIS, formerly professor of medicine and chairman of the department of medicine at the Emory University School of Medicine, has been appointed medical director of the American Heart Association, New York.

HERWIG HAMPERL, director of the Institute of Pathology, University of Bonn, Germany, has been appointed visiting Carl Schurz professor at the University of Wisconsin Medical School for the spring semester. He will present lectures both at the medical school, which is in Madison, and at the university's campus in Milwaukee.

JOHN B. MACDONALD has been named director of the Forsyth Dental Infirmary for Children and professor of oral microbiology in the Harvard School of Dental Medicine. His is the first joint appointment made by the two institutions since their affiliation in May 1955. Macdonald was formerly chairman of the Division of Dental Research and professor of bacteriology in the Faculty of Dentistry, University of Toronto. His service to dentistry has embraced professional dental practice, research, and teaching.

## Recent Deaths

C. GREGORY BARER, Bronxville, N.Y.; 53; staff member of the Institute of Ophthalmology of Presbyterian Hospital, Columbia-Presbyterian Medical Center and instructor at the College of Physicians and Surgeons of Columbia University; 8 Feb.

CLIFFORD R. BEARDSLEY, Huntington, N.Y.; 71; retired electric power engineer; 9 Feb.

WALTER BOTHE, Heidelberg, Germany; 66; director of the Institute of Physics at the Max Planck Institute for Medical Research and 1954 winner of the Nobel prize for physics; 8 Feb.

HENRY S. DUNNING, New Canaan, Conn.; 76; professor emeritus and a founder of the College of Dental and Oral Surgery of Columbia University; 10 Feb.

JOSEPH F. HAUCK, New Brunswick, N.J.; assistant chairman of the agricultural economics department at Rutgers University; 5 Feb.

JOHN H. HOSKINS, Cincinnati, Ohio; 61; chairman of the department of botany and bacteriology at the University of Cincinnati; 8 Feb.

HUBERT S. HOWE, New York, N.Y.; retired clinical professor of neurology at the College of Physicians and Surgeons of Columbia University; 4 Feb.

EDWARD H. HUME, Wallingford, Conn.; 80; former director of the New York Post-Graduate Medical School; head of the medical services of Yale in China 1904-10; 9 Feb.

ALBERT D. SANIAL, La Crosse, Wis.; former meteorologist with the United States Weather Bureau; 9 Feb.

LUCILLE H. SNOW, Chicago, Ill.; 58; staff member of Loyola University, Stritch School of Medicine at Loyola University; 8 Feb.

JOHN VON NEUMANN, Washington, D.C.; 53; member of the U.S. Atomic Energy Commission; 8 Feb.

*Erratum:* The name of the publisher, Simon and Schuster, New York, and the publication date, 1956, were inadvertently omitted from the review of James R. Newman's book *The World of Mathematics*, which appeared in the issue of 1 Feb., page 197.