

formaldehyde to inactivate the virus particles in the vaccine. Approval of the process, which was developed by Parke Davis and Co., will permit an increase in the supply of vaccine for use during the 1956 program of inoculations.

■ A small, easily carried water-vapor analyzer—so sensitive that it can detect one drop of water in the air of an average size room—was described by Frederick A. Keidel of Du Pont's Engineering Research Laboratory at the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy on 27 Feb. Approximately 10 times as sensitive as the best existing water analysis techniques, the new instrument will precisely measure concentrations of less than 1 part per million in flowing samples. Desert air, dry as it is, normally contains 10,000 parts per million of water.

Scientists in the News

JOSEPH SLEPIAN, associate director of the Westinghouse Research Laboratories since 1938, retired after 40 years of service with Westinghouse. Slepian is credited with three especially important developments that have had far-reaching effects on the transmission and distribution of electric power. In the early 1920's he conceived the Autovalve lightning arrester, an arrangement of silicon carbide and clay disks that conducts high-voltage lightning currents to the ground without loss of the lower-voltage electricity normally flowing through a power line. A few years later, Slepian was chiefly responsible for the theoretical study and development of the De-ion circuit breaker, a device that pioneered high-speed methods of extinguishing arcs in electric power systems.

In 1932, he developed the ignitron rectifier, a device for changing large-scale alternating current into direct current. Slepian received his degree in mathematics from Harvard University.

During World War II, Slepian carried on research at Berkeley, Calif., on the separation of uranium isotopes for the atom bomb project. He also served as a consultant to the Office of Scientific Research and Development and with the War Production Board.

TAKERU HIGUCHI, professor of pharmacy at the University of Wisconsin, was honored at the Philadelphia College of Pharmacy and Science on 29 Feb. when he received the citation of the Rho Chi Society. Following the presentation dinner, he delivered the Julius W. Sturmer memorial lecture on the subject "The empiric versus the scientific in pharmaceutical research."

BARRY J. ANSON, a member of the medical faculty at Northwestern University for 30 years, has been named chairman of the university's department of anatomy. At the close of the academic year he will succeed LESLIE B. AREY, who will continue at Northwestern in a teaching and research capacity. Anson, who also will receive the Robert Laughlin Rea professorship in anatomy, is known for his research on the anatomy of the ear and the embryonic development of the ear before birth.

RAYMOND STEVENS has been elected president of Arthur D. Little, Inc., Cambridge, Mass., where he has been a vice president since 1930. He has directed the expansion of the company's scientific activities into various fields, such as operations research.

In May the American Institute of Chemists will present its gold medal to Stevens for his contribution to the "wider understanding of the essential procedures for the management and operation of industrial research." He will succeed EARL P. STEVENSON, who is now A.D.L. board chairman.

EMANUEL SUTER of Harvard University has been appointed head of the department of microbiology at the University of Florida College of Medicine. A Markle scholar in medical science, Suter's teaching background has been that of a special course on representation of bacteriology and immunology.

ROGER G. BATES of the National Bureau of Standards has won the Hillebrand award of the American Chemical Society's Washington section in recognition of his work in electrochemistry. The award was presented on 8 Mar. at a special dinner at which HERBERT S. HARNED, professor of physical chemistry at Yale University, gave the principal address.

EDWIN H. LAND, president of the Polaroid Corporation, Cambridge, Mass., has been appointed a fellow of the School for Advanced Study at Massachusetts Institute of Technology, where he will be a part-time visiting professor. He is the first fellow to be appointed to the new school, which will be inaugurated next fall. The school is being established to provide a means for the informal and intimate association of visiting scholars from all over the world with members of the M.I.T. faculty.

NORMAN HACKERMAN, a professor of chemistry at the University of Texas, has been named recipient of the 1956 Whitney award of the National Association of Corrosion Engineers.

JAMES G. HORSFALL, plant pathologist and director of the Connecticut Agricultural Experiment Station, New Haven, leaves for New Zealand on 29 Mar. to consult with growers and scientists at the invitation of the New Zealand Fruitgrowers Federation, Ltd. He will return to this country by way of Australia, India, Austria, Germany, Holland, Italy and England.

WALTER REUTHER, former head of the department of horticulture at the University of Florida, has joined the staff of the University of California Citrus Experiment Station, Riverside, as chairman of the department of horticulture.

DETLEV W. BRONK, president of the Rockefeller Institute for Medical Research, received the \$1000 Priestley award of Dickinson College on 22 Mar.

HERBERT HOOVER, JR., Under Secretary of State, will receive Columbia University's Kemp medal "for distinguished service in geology" on 30 Mar. Hoover has supervised oil and mineral exploration in many parts of the world. He invented equipment used in the search for petroleum and adapted the spectrograph so that it could be used to detect the presence of gas, often an indication of oil deposits.

RAGNAR GRANIT, head of the department of neurophysiology at the Nobel Institute in Stockholm, Sweden, recently visited New York for 2 weeks to give a series of lectures at the Rockefeller Institute.

Five scientists have left this country for a 4-week trip in the U.S.S.R. The trip was arranged by the U.S. Public Health Service at the request of the Department of State. Last month a team of Soviet scientists concluded a month-long visit in the United States. The men who have just departed are as follows:

KARL F. MEYER, director of the Hooper Foundation and professor of experimental pathology at the University of California Medical Center, San Francisco.

JOHN R. PAUL, professor of preventive medicine at the Yale University School of Medicine.

RICHARD E. SHOPE, member of the Rockefeller Institute and a specialist in virus disease epidemiology.

COLIN M. MACLEOD, professor of microbiology at Bellevue Medical Center, New York University.

MICHAEL B. SHIMKIN, chief of the biometry and epidemiology branch of the National Cancer Institute, Bethesda, Md.

WILBUR E. KELLEY, former manager of the New York Operations Office of the U.S. Atomic Energy Commission, and since 1953 vice president in charge of engineering for Catalytic Construction Company, Philadelphia, Pa., has been elected president of the Walter Kidde Nuclear Laboratories, Inc., Garden City, N.Y. He succeeds HENRY K. NORTON, president since the company's formation in 1952, who will continue as a member of the board of directors.

HOMER W. SMITH, chairman of the department of physiology at New York University College of Medicine, delivered the annual Jean Redman Oliver lecture at the State University of New York College of Medicine in Brooklyn on 15 Mar. He discussed "The development of modern renal physiology."

HUGH C. LONGUET-HIGGINS, professor of theoretical chemistry at the University of Cambridge, Cambridge, England, has been named Arthur D. Little visiting professor of chemistry at the Massachusetts Institute of Technology for the spring semester. During his stay at M.I.T., he will deliver a series of special lectures on the application to chemistry of modern physical theories of atomic and molecular structure.

ALEX J. STEIGMAN, chairman of the department of pediatrics, University of Louisville, has been appointed special consultant to the Communicable Disease Center of the Public Health Service, Department of Health, Education and Welfare.

RICHARD JOHN BING, professor of experimental medicine and of clinical physiology, and director of the cardiac clinic at the Medical College of Alabama, has been appointed chief of the Washington University Medical Services at the Veterans Hospital and professor of medicine at the Washington University School of Medicine.

ARNOLD M. SMALL, former head of the human factors division at the Navy Electronics Laboratory, has accepted a position with Convair, a division of General Dynamics Corporation, San Diego, Calif., as head of reliability and human engineering functions in the engineering department.

HENRY W. BROSN, director of the Western Psychiatric Institute and Clinics and professor and chairman of the department of psychiatry, University of Pittsburgh School of Medicine, is spending a sabbatical year at the Center for Advanced Study in the Behavioral Sciences, Stanford, Calif.

RAYMOND T. BOWMAN was sworn in 28 Feb. as representative of the United States on the Statistical Commission of the United Nations. Since April 1955, Bowman has served as assistant director for Statistical Standards, Bureau of the Budget.

WILLIAM von FISCHER, for the past 8 years head of the department of chemistry and chemical engineering at Case Institute of Technology, has been appointed coordinator of research and development for the Glidden Company, Cleveland, Ohio. Fischer, who is the editor of *Paint and Varnish Technology* and coeditor of *Organic Protective Coatings*, will assume his new position at the close of the present academic year.

ARTHUR A. BAKER has been made associate director for the U.S. Geological Survey. Baker has served as administrative geologist in the office of the director since June 1953 and has served with the Geological Survey continuously since 1921.

CHARLES S. HANES, professor of biochemistry at the University of Toronto, has been appointed Walker-Ames professor in the department of biochemistry, University of Washington (Seattle), during the spring quarter of 1956. Hanes will deliver a series of advanced lectures dealing with enzymatic transfer reactions, mechanism of enzyme action, and the cytological localization of enzymes.

Recent lecturers at the medical school of Washington University in St. Louis include the following.

HARRY GRUNDFEST, associate professor of neurology at the College of Physicians and Surgeons, Columbia University, delivered the first George H. Bishop lecture in Experimental Neurology on 24 Feb. He discussed "Bioelectricity in the nervous system." Bishop, in whose honor the lecture has been established, is professor emeritus and lecturer in neurophysiology at Washington University School of Medicine.

HUGO THEORELL, chairman of the biochemistry department at the Nobel Institute in Stockholm, Sweden, discussed "Kinetics and equilibria in flavoproteins" on 7 Mar. in a lecture sponsored by the department of biochemistry. Theorell won the 1955 Nobel prize in medicine for research on enzymes.

SIDNEY G. MARGOLIN, professor of psychiatry at the University of Colorado School of Medicine, delivered the third annual E. Van Norman Emery memorial lectures 13 Mar. on the subjects "Influence of psychophysiological states on pathophysiology" and "Psychology of supportive therapy."

HERBERT E. SILCOX has been appointed technical director of the chemical division of Merck and Company. He will be responsible for research and development on processes for existing chemical products, for product application research and technical service, and for chemical control. He will direct the activities of all laboratories serving these functions at the chemical division headquarters at Rahway and at the division's various plants.

Recent Deaths

ANDRE J. CIPRIANI, Deep River, Ontario, Canada; 47; research director of the biology division of the Chalk River Atomic Energy Plant; 23 Feb.

MARIE H. GLENNON CHARLIER, Chester, N.J.; 43; medical geographer; former professor at Finch College; 20 Feb.

HENRY E. CRAMPTON, New York; 81; professor emeritus of zoology at Barnard College; former curator at the American Museum of Natural History; 26 Feb.

ARNOLD H. KNAPP, New York; 86; professor emeritus of ophthalmology at Columbia University; 29 Feb.

ELMER MERRILL, Jamaica Plains, Mass.; 79; Arnold professor of botany emeritus and former director of the Arnold Arboretum of Harvard University; director of the New York Botanical Garden and professor of botany at Columbia University 1930-35; first American botanist to receive the Linnean Society medal from the Linnean Society of London; vice president of AAAS section G in 1931; 25 Feb.

GERRIT S. MILLER, JR., Washington, D.C.; 84; retired curator of the division of mammals at the Smithsonian Institution; recipient of the Joseph Leydy Medal for distinguished research in the natural sciences; 24 Feb.

JOHN PATTERSON, Toronto, Ontario, Canada; 84; retired chief of the Meteorological Service of Canada; former president of the American Meteorological Society; 22 Feb.

Education

■ An academic program in solid-state science and technology, leading to the degrees of master of science and doctor of philosophy, has been set up at Syracuse University.

■ The Washington University Child Evaluation Clinic began operation 1 Feb., primarily for the diagnosis and guidance of mentally retarded children. The clinic is supported by funds from the Children's Research Foundation and