



Thomas H. Braid, formerly of Princeton University, has joined the Physics Division of Argonne National Laboratory, Lemont, Ill. **Samson A. Cox**, formerly at Duke University, has joined Argonne's Reactor Engineering Division.

David S. Burch, formerly at the University of Washington, has joined the Atomic Physics Section of the Atomic and Radiation Physics Division of the National Bureau of Standards in Washington, D. C. **William Culshaw**, formerly of the British Telecommunications Research Establishment, has joined NBS Boulder Laboratories in Colorado.

John S. Burlew, executive vice president of the Franklin Institute, **M. H. Trytten**, director of the Office of Scientific Personnel at the National Research Council, and **Dael L. Wolfe**, administrative secretary of the American Association for the Advancement of Science, were awarded honorary Doctor of Science degrees on December 4 by the Drexel Institute of Technology. The awards were presented at Drexel's Sixty-fifth Anniversary Convocation. The recipients were cited as persons "who have played significant roles in institutions which have contributed materially to over-all welfare through the organization of science and invention" in keeping with the theme of the Convocation, which was "The Advancement of Learning through the Organization of Science and Invention".

Walter M. Elsasser, formerly professor of theoretical physics at the University of Utah, has joined the staff of the University of California's Scripps Institution of Oceanography, La Jolla, as a research physicist.

Edward M. Elvejord has joined the Electrical Standards Laboratory of the Boeing Airplane Company, Seattle, Washington.

The following additions have been made to the staff of Brookhaven National Laboratory: **Alexander J. Elwyn** and **John D. Fox** (Physics Department); **Allen Eshaya** and **Francis Salzano** (Nuclear Engineering Department); **William G. Walker** (Accelerator Development Department).

Ralph Feder of the Pitman-Dunn Laboratories, Frankford Arsenal, Philadelphia, Pa., has been awarded a research and study fellowship by the Secretary of the Army. He will work with a group at the British Atomic Energy Establishment at Harwell on studies relating to the properties of crystalline materials.

Philip H. Geil, Jr., has joined the Research Division of the Polychemicals Department at the du Pont Company's Wilmington Experimental Station in Delaware.

N. H. Godbold, formerly with the Atomic Energy Commission, **P. N. Stevens**, from the Oak Ridge School of Reactor Technology, and **R. D. Sheffield** and **R. A. Miller**, formerly of the University of Mississippi, have joined the nuclear research staff of Convair Division of General Dynamics Corp. at Fort Worth, Tex.

The following appointments have been made to the staffs of Union Carbide Nuclear Company's atomic energy installations at Oak Ridge, Tenn.: at Oak Ridge National Laboratory, **Edith C. Halbert**, **Lincoln Jung**, and **Grimes G. Slaughter**; at the Gaseous Diffusion Plant, **J. W. Rogers**.

The following physicists have joined the staff of Los Alamos Scientific Laboratory: **Leon Heller**, **Michael S. Wertheim**, and **James E. Young** (Theoretical Division); **Joseph M. Holt, Jr.** (Weapons Division).

John I. Hoover and **Ramond C. Waddell**, of the Naval Research Laboratory, Washington, D. C., have been awarded the Meritorious Civilian Service Award for their joint contributions to the design and development of an air particle detector, an instrument cited as representing a major achievement in the nuclear-powered submarine program.

Arthur W. Kenney, consultant to E. I. du Pont de Nemours & Co. in the planning of physical research, retired from the Chemical Department on November 30, after having served thirty-seven years at the company's Experimental Station in Wilmington, Del. He established du Pont's first x-ray laboratory in 1928 and later was instrumental in setting up the firm's first infrared spectroscopy laboratory designed for general studies of the structure of molecules. For two decades, from 1932 to 1952, Dr. Kenney was head of the Chemical Department's physics section. During this period he helped to develop physics from a relatively minor position to major stature in the chemical research of the company, both by the techniques he introduced at the Experimental Station and through liaison with university and college research in physical chemistry and physics.

Meyer Leifer has been appointed assistant director of Sylvania Electric Products' Electronic Defense Laboratory located in Mountain View, Calif. Before being named to the newly created post, Mr. Leifer was engineering manager of the Laboratory and has headed its research and development program since it began operations in Mountain View in 1953. **Frederick Dominick** has joined the Electronics Development Department at Sylvania's Waltham Laboratories in Massachusetts.

William Low of the University of Chicago's Enrico Fermi Institute for Nuclear Studies has been awarded the A. Cressy Morrison Prize of The New York Academy of Sciences for his paper entitled "The Paramagnetic Resonance and Optical Spectra of Some Ions in Cubic Crystal-line Fields".

Richard E. Michel and **Peter J. Wojtowicz** have joined the Physical and Chemical Research Laboratory of RCA's David Sarnoff Research Center in Princeton, N. J.

Harold C. Miller has been named manager of licensing research at Armour Research Foundation of Illinois Insti-

tute of Technology, where he will be responsible for the administration of research programs to support Foundation licensing activities in magnetic recording and other fields. The following physicists have joined the staff of the Foundation: **John W. Baum** and **Richard Holtzman** (Nuclear Section); **Richard H. Bragg**, **William D. Brennan**, **Constantine P. Kutrumanes**, **Samuel A. Marshall**, and **Donald O. Van Ostenburg** (Physics of Solids Section); **Dickron Mergerian** (Optics Section); **Edward G. Grimsal**, **William Lawrie**, and **Verne J. Raelson** (Acoustics Section); **Henry Seiwatz** (Magnetics Section).

Frank J. Musil has joined the Development Laboratory of the Goodyear Atomic Corporation, Portsmouth, Ohio, where he will work in x-ray diffraction. Mr. Musil recently completed his training under Goodyear's Technical Squadron Training Program.

Ernst Opik, of Armagh Observatory, Armagh, Northern Ireland, is spending the academic year 1956-57 at the University of Maryland Physics Department as a visiting research professor. **Hiroomi Umezawa** of the University of Tokyo is spending the first three months of 1957 in the Department as a visiting lecturer.

Arthur E. Ruark, Temerson Professor of Physics at the University of Alabama, has been granted leave by the University to join the Research Division of the US Atomic Energy Commission in Washington, D. C., to accept an appointment as chief of the Controlled Thermonuclear Branch. **Charles E. Falk**, of Brookhaven National Laboratory, has also been granted a leave of absence to join the AEC's Research Division.

Stephen M. Shafroth, of the Department of Physics at Northwestern University, Evanston, Ill., has been promoted to the rank of assistant professor. **Martin H. Bailyn**, formerly at Harvard University, has joined the Department as an instructor.

Frank H. Slaymaker, formerly chief engineer of the Special Products Division of Stromberg-Carlson, has been named manager of the company's newly formed Electroacoustics Research Group in the Research and Advanced Development Department.

Theodore B. Taylor, formerly at Los Alamos Scientific Laboratory, **Harold A. Thomas**, formerly of the National Bureau of Standards Radio Standards Division, and **Lloyd Zumwalt**, formerly with Nuclear Science and Engineering Corporation, have joined the San Diego Staff of General Atomic's John Jay Hopkins Laboratory for Pure and Applied Science.

John von Neumann of the US Atomic Energy Commission has received the American Meteorological Society's Award for Extraordinary Scientific Accomplishment in recognition of his "farsighted contribution to the science of meteorology and the national interests in developing the modern, high-speed electronic computer with meteorological application as an ultimate aim, and for his support and encouragement in organizing the world's first research group in numerical weather prediction". The research group was organized at the Institute for Advanced Study in Princeton, N. J.



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for information,
write to:

ROBERT L. KOLLER
6 Schouler Court
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