

1971 Holweck Medal goes to Dennis Gabor

The French Physical Society's 1971 Holweck Medal and Prize has been presented to Dennis Gabor, a staff scientist at CBS Laboratories. Gabor, known as the "father of holography," was honored for his invention of the lensless photographic technique of producing three-dimensional objects by freezing a light wave into a photographic plate by means of another reference beam and reviving it by laser or white-light illumination.

A native of Budapest, Hungary, Gabor first worked out the mathematical basis of holography at the University of London in 1948. However it was not until 1962, when the coherence of laser light was used to produce the first high-quality hologram, that the full importance of holography was realized. Gabor has also been responsible for numerous mathematical contributions to the advancement of communications and color television. At CBS he was a member of the team that developed electronic video recording, a system which makes it possible to play pre-

recorded programming from motion-picture film and videotape on conventional television sets.

Turner and Shenstone receive OSA awards

The Optical Society of America will present three awards to distinguished scientists during the October meeting in Ottawa, Canada. The Frederic Ives Medal and Award will be presented to A. Francis Turner; the William F. Meggers Award and Medal will go to Allen G. Shenstone, and the Edgar D. Tyler Award and Medal (originally to have been presented at the spring meeting) will be presented to Louise L. Sloan (*physics today*, January, page 85).

Turner, who has recently joined the Optical Sciences Center in Tucson, Arizona, had been associated with Bausch and Lomb Optical Co in Rochester, N. Y. since 1939. He is being cited for his "leadership in pioneering the methods of design and fabrication of multilayer evaporated films; his originality in applying multilayer systems to the solution of practical optical problems, and his effectiveness as an

educator." Associated with the OSA since 1960, when he served as associate editor of *Journal of the OSA*, Turner was president of the OSA in 1968. The Ives award, established in 1928 by Herbert E. Ives in honor of his father Frederic Ives, was originally presented biennially, and since 1951 it has been presented annually.

The Meggers award, which was recently established to recognize contributions to optical spectroscopy, is being presented to Shenstone, a professor emeritus of Princeton University. He is being honored for his analysis of atomic spectra over the past 45 years and his use of "optical spectra to yield new insight into atomic structure." Among Shenstone's contributions has been the "Shenstone effect" with which he recognized the importance of auto-ionization in atomic spectra. He has also contributed to line spectroscopy, radioactivity and photoelectricity. Although he formally retired from Princeton several years ago, after having worked there since 1925, he has continued to do research in atomic spectra and has recently published an analysis of Ni II, based on 4300 observed lines, and he is now working on the Cu III spectrum.

Conyers Herring has been promoted to co-head of the theoretical physics research department at Bell Telephone Laboratories, where he will be responsible for research in solid-state physics.

Youngstown State University has promoted **Paul E. Dalbec** to associate professor.

Richard A. Swalin was named dean of the University of Minnesota Institute of Technology. Swalin was previously associate dean of the institute.

Among the new members of the Los Alamos Scientific Laboratory are **Maxwell T. Sandford II**, **Guy E. Barasch** and **Frederick Young** in the testing division. Also joining Los Alamos are

Raymond P. Engelke in the explosives testing division, **Richard A. Gerwin** in the physics division, **Chaim Richman** in the health division and **Cecil J. Umbarger Jr** in the assay and accountability division.

Paul B. Richards, superintendent of the mathematics and information sciences division of the Naval Research Laboratory, has been named president of the American Astronautical Society. Richards, who joined NRL in 1968, has been involved in the US space program since



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1959, conducting research for the Army, Air Force and NASA programs concerned with satellite tracking, celestial mechanics and systems analysis. Richards, who last year was vice-president of the American Astronautical Society, has been active in the society since 1965 when he organized a symposium, "Recent Developments in Space Flight Mechanics," sponsored jointly by the American Astronautical Society and the American Association for the Advancement of Science. Later he was named chairman of the space flight mechanics committee and then a national director of the American Astronautical Society.

At Case-Western Reserve University **Kenneth L. Kowalski** has been named