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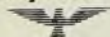
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we hear that

Garwin, IBM Corp Fellow at the Thomas J. Watson Research Center in Yorktown Heights, N.Y., received the Szilard Award for his role in helping to educate the public, as well as the legislative and executive branches of the US Government, on several major technological issues, notably the SST and ABM. His varied career spans the areas of academics, industrial research and government. Currently he is adjunct professor of physics at Columbia University and consultant to the US Government, in addition to his position at IBM. His research interests have included superconductors and fundamental particles.



YORK

The Forum on Physics and Society Award was given to York, professor of physics at the University of California, San Diego, for his writings and activities on behalf of arms control. He served as a Department of Defense official in the 1950's, and has long been senior science adviser to various agencies of the US Government. He is the author of *Race to Oblivion* (1970), editor of *Arms Control* (1973), and author of the recently published *The Advisors: Oppenheimer, Teller and the Superbomb* (1976). York has been active in the Federation of American Scientists and has participated in studies at the Stockholm Peace Institute since 1970.

Buchsbaum named Bell Labs vice-president

Solomon J. Buchsbaum, executive director, transmission systems, at Bell Laboratories since 1975, has been named to succeed Ian M. Ross as vice-president of network planning and customer services. Ross has become executive vice-president of Bell Labs. Buchsbaum's new responsibilities include technical-system plan-

ning for the Bell System network and development of data-communications systems.

After receiving his doctorate from the Massachusetts Institute of Technology in 1958, Buchsbaum joined Bell Labs and became head of the solid-state and plasma physics research department in 1961 and director of the electronics-research laboratory in 1965. He then spent three years as vice-president at Sandia Laboratories in Albuquerque, New Mexico and returned to Bell Labs in 1971 as executive director of the research communications science division.

Among the 104 newly elected members of the National Academy of Engineering are: **Harold M. Agnew** (Los Alamos Scientific Laboratory), **John W. Colman** (Westinghouse Research Laboratories, Pittsburgh, Penn.), **Anthony J. DeMaria** (United Technologies Research Center, East Hartford, Conn.), **Joseph Feinstein** (Varian Associates, Palo Alto, Calif.), **John B. Goode-nough** (Lincoln Laboratory, Lexington, Mass.), **Joseph M. Hendrie** (Brookhaven National Laboratory), **Abraham Hertzberg** (University of Washington, Seattle), **Wilmot N. Hess** (NOAA, Boulder, Colo.), **Robert W. Keyes** (IBM Watson Research Center, Yorktown Heights, N.Y.), **Hans M. Mark** (NASA Ames Research Center, Moffett Field, Calif.), **William P. Slichter** (Bell Laboratories, Murray Hill, N.J.), **John B. Wachtman Jr** (US Department of Commerce), **William M. Webster** (RCA Laboratories, Princeton, N.J.), **J. Ernest Wilkins Jr** (Howard University, Washington, D.C.) and **Amnon Yariv** (California Institute of Technology).

For the first time the National Academy of Engineering has elected foreign associates of the Academy; among them are: **Pierre R. Aigrain** (France), **Hendrick B. G. Casimir** (The Netherlands), **Alan H. Cottrell** (England), **John McGregor Hill** (England), **Christopher Hinton** (England) and **W. Bennett Lewis** (Canada).

The Alfred P. Sloan Foundation has awarded fellowships for basic research to 91 young scientists, of whom 27 are physicists. The 1976-77 recipients are **George H. Rieke** and **Richard L. Shoemaker** (University of Arizona); **Lawrence Grossman**, **Kathryn Levin** and **Robert M. Wald** (University of Chicago); **Alan K. Betts** and **William M. Fairbank Jr** (Colorado State University); **John B. Kogut** (Cornell University); **P. Bruce Pipes** (Dartmouth College); **Eric J. Chaisson** and **Howard M. Georgi III** (Harvard University); **Arthur F. Davidson** (Johns Hopkins University); **John D. Joannopoulos** and **Paul C. Joss** (Massachusetts Institute of Technology); **Robert G. H. Robertson** (Michigan State University); **P. Frank Winkler** (Middlebury College); **Roberta M. Humphreys** (University of Minne-

sota); **George K. Wong** (Northwestern-University); **Frank A. Wilczek** (Princeton University); **Bernard A. Weinstein** (Purdue University); **F. Barry Dunning** (Rice University); **Haruo Kojima** (Rutgers University); **Robert E. Tribble** (Texas A&M University); **Paul E. Boynton** (University of Washington); **Talbert S. Stein** (Wayne State University); **Carl E. Carlson** (College of William and Mary) and **Itzhak Bars** (Yale University).

At Bell Laboratories, **Alan G. Chynoweth** has been named executive director of the electronic device, process and materials division; he was formerly director of the materials research laboratory.

John A. Wheeler, who has taught physics at Princeton University since 1945, will take up a position as professor of physics at the University of Texas, Austin on 1 September. At that time, Wheeler will become professor emeritus of Princeton.

George E. Boyd, formerly assistant director of the Oak Ridge National Laboratory and now professor of physical chemistry at the University of Georgia, has been named recipient of the 1976 Charles H. Stone Award of the American Chemical Society in recognition of outstanding service to the chemical profession. Boyd has done extensive work in nuclear energy and is an authority on the chemical aspects of nuclear power.

Gerald T. Garvey, formerly professor of physics at Princeton University, has become director of Argonne National Laboratory's physics division.

Recently appointed coordinator of the Sherman Fairchild Laboratory at Lehigh University is **Sidney R. Butler**, professor of metallurgy and materials science.

The new head of the ISABELLE design study and associate director of Brookhaven National Laboratory is **James R. Sanford**, formerly associate director for program planning at Fermi National Accelerator Laboratory. At Brookhaven, Sanford will be responsible for the design and eventual construction of its 200 GeV storage-ring facility.

Denys Wilkinson, head of the department of nuclear physics at the University of Oxford, will assume his new position as vice-chancellor of Sussex University in September; Wilkinson will also become professor of physics at Sussex.

The 1976 Space Award of the American Institute of Aeronautics and Astronautics has been presented to **Riccardo Giacconi**, associate director for high-energy astrophysics at Harvard University's Center for Astrophysics. The award, which consists of a certificate and honorarium, cited Giacconi for his contributions to x-ray astronomy.

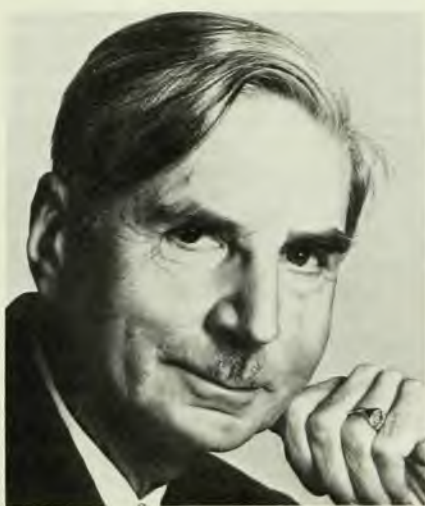
The following changes at Los Alamos Scientific Laboratory have been announced: **Robert N. Thorn** has been appointed associate director for weapons and **Raymond Pollock, Jr** has become theoretical-design division leader, in the position previously held by Thorn. **George I. Bell** has been appointed alternate theoretical division leader.

obituaries

Walter Schottky

Walter Schottky, who was known for the numerous effects and devices that bear his name, died 4 March in Pretzfeld, Germany at the age of almost 90. He was born 23 July 1886 in Zürich, Switzerland and was the son of the mathematician Friedrich Schottky. His youth was spent in Berlin where he entered the University and studied under Max Planck for his doctorate, which he obtained in 1912 with a paper on special relativity. However, this subject was not the point of departure for his subsequent work in solid-state physics and electronics—it was rather the fields of thermodynamics and statistics, to which his master and teacher had contributed so much.

Among Schottky's own contributions to these areas was his book *Thermodynamics* (1929). The following passage from the preface shows the sure eye he kept to the future: "The time when man



SCHOTTKY

could dispose freely over the resources of energy and materials given to us by nature will one day appear to belong to an era



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