

WE HEAR THAT

Ralph A. Sawyer, vice president for research of the University of Michigan and chairman of AIP's governing board, has been appointed chairman of the National Academy of Sciences—National Research Council Technical Panels Advisory to the National Bureau of Standards. Sawyer replaces **Paul D. Foote**, chairman of the advisory panels for the past four years.

The University of California (Irvine) has announced the appointment of **Frederick Reines** as professor of physics and dean of physical sciences.

Reines, now chairman of the physics department at Case Institute of Technology, will assume the new post this summer. He will continue to work with colleagues at Case and at the University of Witwatersrand, South Africa, on a program of research in neutrino physics. Other recent appointments at Irvine are **Richard F. Wallis**, formerly head of the semiconductors branch, Naval Research Laboratory, as professor of physics; **Jonas Schultz**, formerly of Lawrence Radiation Laboratory, as associate professor; and **Douglas Mills**, formerly at the University of Paris in Orsay, France, as assistant professor.

Shepard Bartnoff, of Westinghouse Electric Corp., has been appointed manager of the Carolinas-Virginia Tube Reactor (CVTR) Project at the Westinghouse atomic power division in Pittsburgh. Bartnoff will continue in his present capacity as manager of Westinghouse's Saxton Experimental Program.

Warren P. Waters has been appointed manager of Hughes Aircraft Company's solid-state research center at Newport Beach, Calif. Waters was formerly with Texas Instruments, Inc., where he managed the semiconductor research and development laboratory's advanced-device development branch.

The University of Wisconsin (Milwaukee) has announced that **H. Umezawa**, currently in Italy at the Institute of Theoretical Physics, University of Naples, has accepted a professorship in the Wisconsin physics department and will join the faculty at the Milwaukee campus in September. Umezawa's appointment highlights the establishment of a theoretical physics group in the department.

Arthur E. Ruark, for 10 years the Atomic Energy Commission's assistant director for controlled thermonuclear research (CTR), has been appointed senior associate director of the division of research. He will be responsible for general review of scientific and educational problems that come before the division. **Amasa Bishop**, formerly at Princeton University's plasma physics laboratory, has succeeded Ruark as assistant CTR director. Bishop held the CTR post until 10 years ago, when he was succeeded by Ruark.

The National Science Foundation has announced the appointment of **Ronald E. Kagarise** as program director of physical chemistry in the division of mathematical and physical sciences. Kagarise was formerly with the Naval Research Laboratory, where he was head of the chemical spectroscopy section.

Allan A. Fleischer, formerly of William M. Brobeck and Associates, has been appointed vice president for research and development of the Cyclotron Corporation, Berkeley, California.

David R. Kneeland, formerly with High Voltage Engineering Corp., has joined the technical sales staff of the Cyclotron Corp.

S. S. Penner, chairman of the aerospace and mechanical-engineering sciences department at the University of California (San Diego), has been elected to the 60-member Engineering Sciences Section of the International Academy of Astronautics (IAA). Established in 1960, IAA is associated with the International Astronautical Federation and has headquarters in Paris.

Howard W. Emmons, who holds the Gordon McKay professorship of mechanical engineering at Harvard University, has been given an additional appointment as Abbott and James Lawrence professor of engineering in Harvard's division of engineering and applied physics.

The physics department at Washington State University has added five new faculty members. Joining the staff as assistant professors are **Stanley M. Bunch**, from the University of Southern California; **Jack G. Couch**, from Texas A & M and Oak Ridge; and **M. Howard Miles**, from the University of Illinois. **Richard G. Fowles**, from Stanford Research Institute, and **John C. Gruber**, from the University of California (Los Angeles), are newly appointed associate professors at Washington State.

Richard Courant, professor-emeritus of mathematics at New York University and advisor for the university's Courant Institute of Mathematical Sciences, has recently been elected to membership in the Soviet Academy of Sciences. One of the world's leading authorities on applied mathematics, Courant is noted for his contributions to the mathematics used by physicists. Only five other scientists now working in the United States have been honored by election to the Soviet academy.

The Tata Institute of Fundamental Research in Bombay, India, has announced the appointment of **M. G. K. Menon** as director. Menon succeeds the late **H. J. Bhabha**, who founded the institute in 1945.

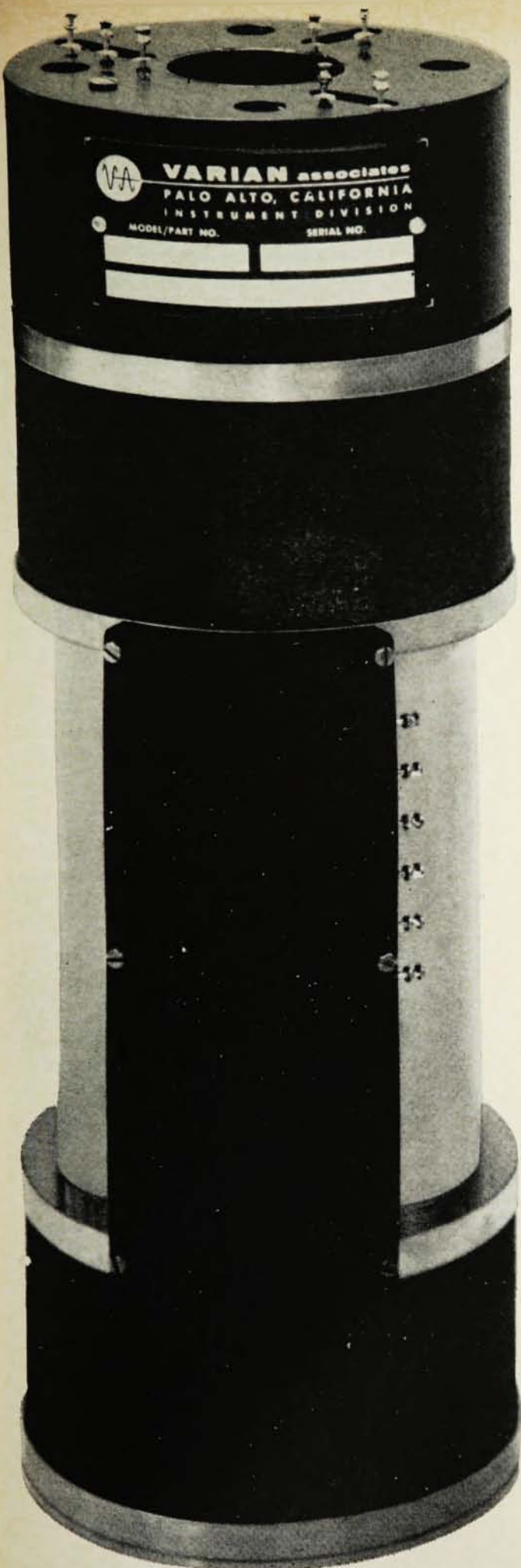
Kenneth N. Geller, presently an assistant professor of physics at the University of Pennsylvania, will join the nuclear group at Drexel Institute of Technology this summer as an associate professor. **Gerald Rosen**, formerly at the Southwest Research Insti-



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COURANT

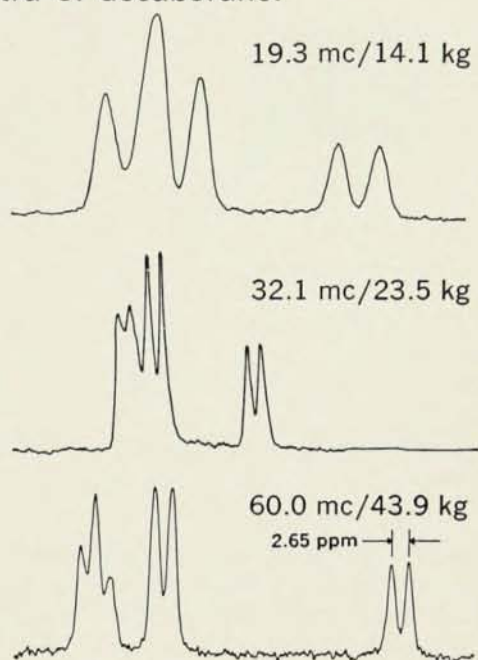


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tute, has joined the theoretical group at Drexel and has been appointed professor of physics.

John A. Howe, formerly engaged in laser research at Bell Telephone Laboratories, has joined the Franklin Institute's Center for Naval Analyses in Arlington, Va. He is with the operations evaluation group there.

The Sperry Rand Research Center in Sudbury, Mass., has announced the appointment of **Frank A. Sewell Jr.** and **Alan B. Smith** to the solid-state research staff.

Maurice M. Shapiro, in charge of cosmic-ray physics at the US Naval Research Laboratory, has been elected president of the Philosophical Society



SHAPIRO

of Washington. The Philosophical Society, founded 95 years ago, has a membership of one thousand. Elected vice presidents were **W. J. Youden**, of George Washington University, and

Elliott Montroll, technical director of the Institute for Defense Analyses. The society's new corresponding secretary is **George T. Rado**, head of the magnetism branch at the US Naval Research Laboratory. **L. T. Crane**, of the National Science Foundation, was elected treasurer. **D. F. Bleil**, of the Naval Ordnance Laboratory, and **S. Silverman**, of the National Bureau of Standards, were named members-at-large of the general committee. Other officers of the society are **John A. O'Keefe** of the National Aeronautics and Space Administration, recording secretary; **Herbert Friedman** of the Naval Research Laboratory, member-at-large of the general committee; **Lewis Slack** of the National Academy of Sciences, chairman of the committee on communications; and **Mark Harrison** of American University, chairman of the committee on membership.

Lawrence Cranberg has been appointed director of the University of Virginia's new physics laboratory, which houses a 5.5-MeV Van de Graaff accelerator and a 70-MeV electron synchrotron. □