

AAPT HONORS SEVERAL AT WINTER MEETING

The 1994 winter meeting of the American Association of Physics Teachers, held in San Diego in January, served as an occasion to draw attention to the achievements of several individuals.

E. Leonard Jossem, professor emeritus of physics at Ohio State University, received the Oersted Medal, AAPT's highest honor. In presenting the medal, AAPT noted Jossem's "international reputation as an outstanding physicist, a distinguished educator and a master teacher" and remarked that "he is at home as well in schools as in research laboratories; he moves among students and teachers as naturally as among professors and Nobel laureates."

The Richtmyer Memorial Lecture was delivered at this year's winter meeting by **Sheldon L. Glashow**, who spoke on "unification of the large and the small." AAPT cited Glashow for his "deep and abiding passion for bringing good science to the public at large." Glashow is the Higgins Professor of Physics and the Mellon Professor of the Sciences at Harvard University. Five individuals were given Distinguished Service Citations at the winter meeting: **J. Richard Christman**, **Curtis J. Hieggelke**, **Thomas L. O'Kuma**, **Carol-ann Tripp** and **Demetrius D. Venable**. Christman, a professor of physics at the US Coast Guard Academy, in New London, Connecticut, was cited for his "immeasurable impact upon [the academy's] physics program" and for serving two terms on the AAPT committee on computers in physics education. Hieggelke and O'Kuma were cited for their work in "putting on a series of NSF-sponsored workshops for two-year-college teachers" and "raising the consciousness of the community at large with respect to the contributions of two-year colleges to physics education." Hieggelke is a professor in the department of natural science and physical education at Joliet Junior College, in Joliet, Illinois. O'Kuma is a professor in the physical science department at Lee

College, in Baytown, Texas. Tripp, a teacher at Providence Country Day School in East Providence, Rhode Island, was cited for serving on various national boards and committees, typically as a representative of the high school community. Venable, the G. Robert Cotton Distinguished Professor of Physics and vice president for research of the graduate college at Hampton University in Hampton, Virginia, was cited for being a "student's teacher" and for his service on various AAPT committees, including those on minorities in physics and on physics in undergraduate education.

ISABELLA KARLE IS HONORED BY THE FRANKLIN INSTITUTE

The Franklin Institute announced in November that its 1993 Bower Award and Prize in Science would go to **Isabella Karle**, head of the x-ray diffraction section of the Naval Research Laboratory in Washington, DC. According to the citation Karle earned the kudo for "pioneering contributions in determining the three-dimensional structure of molecules, making use of both x-ray and electron diffraction, and in particular for her definitive introduction of a procedure . . . to reveal molecular structure directly from x-ray studies." With this method, the citation continues, Karle "has elucidated the crystal structures of numerous complex organic substances including biologically active compounds."

IN BRIEF

At the Beam Instrumentation Workshop held in Santa Fe, New Mexico, in October, **Ralph Fiorito** and **Donald Rule** of the Naval Surface Warfare Center in Silver Spring, Maryland, were awarded the Faraday Cup sponsored by Bergoz Inc for "their development of electron-beam emittance measurement techniques using optical-transition radiation."

Frank C. Hawthorne has been awarded the Willet G. Miller Medal of the Royal Society of Canada. The

Miller Medal is a biennial award for research in the Earth sciences; Hawthorne was cited for combining crystallography, chemical theory and mathematics to provide innovative ways of treating mineral structures and their behavior in geological processes. He is a professor of crystallography and mineralogy at the University of Manitoba.

Robert H. Tanner, a consulting engineer in acoustics who lives in Naples, Florida, has received the Award for Engineering Professionalism, the highest award of the US Activities Board of the Institute of Electrical and Electronics Engineers. He was cited for "helping to develop the conceptual professional activities framework that evolved into the society's US Activities Board."

OBITUARIES

J. B. Horner Kuper

J. B. Horner Kuper, physicist, founding chairman of the instrumentation and health physics department at Brookhaven National Laboratory and for 25 years the editor of the *Review of Scientific Instruments*, died on 8 June 1993 of complications after a fall. He was 83.

Born in New York City, Kuper graduated from Williams College in 1930 and earned his PhD in physics from Princeton University in 1938. Before World War II he worked as a physicist at the Washington Biophysics Institute and the National Institutes of Health.

In 1941 he joined the Radiation Laboratory at MIT, where he worked on developing radar transmitter components—the magnetron power radiofrequency tubes, the modulator circuits to pulse them for 1 microsecond 1000 times a second, the dish and other antenna designs, and the microwave transmission lines and switches.

After the war Kuper coauthored a book with Donald Hamilton and Julian Knipp in the MIT Radiation Lab series of declassified material (*Klystrons and Microwave Triodes*, McGraw-Hill, 1948). Then in 1946 he started work on microwave rf com-