

and Kidney Diseases in Bethesda, Maryland.

The Polymer Prize in Nuclear Physics is being awarded to **Thomas Russell**, distinguished professor of polymer science and engineering at the University of Massachusetts Amherst, for his “pioneering research and fundamental elucidation of the surface and interfacial behavior of polymers.”

Uzi Landman takes this year’s Aneesur Rahman Prize for his “pioneering computations that have generated unique insights into the physics of materials at the nanometer length scale, thereby fostering new theoretical and experimental research.” He is a Regents’ and Institute Professor and the F. E. Callaway Chair in the school of physics at the Georgia Institute of Technology.

The George E. Valley Prize goes to **Ivo Souza**, assistant professor in UC Berkeley’s physics department. Souza is cited for his “fundamental advances in the theory of polarization, localization, and electric fields in crystalline insulators.”

Steven Manson, Regents Professor in the department of physics and astronomy at Georgia State University in Atlanta, is the recipient of the John Wheatley Award. APS is honoring Manson for “building collaborations with scientists in Uzbekistan, India, and Turkey, and for promoting research groups and supporting students in these countries.”

AIP Honors Lederman with Compton Medal

Nobel laureate **Leon M. Lederman** will receive the Karl T. Compton Medal for Leadership in Physics from the American Institute of Physics at the April meeting of the American Physical Society in Tampa, Florida. Presented every four years, the medal is accompanied by a certificate and a cash award of \$10 000.

Lederman, an internationally known high-energy physicist, has been actively involved in the professional development of primary-school teachers in the Chicago area. He is being recognized for his “inspirational leadership in the teaching of physics.”

Director emeritus of Fermilab in Batavia, Illinois, Lederman holds an appointment as Pritzker Professor of Science at the Illinois Institute of Technology in Chicago. He is also the resident scholar at the Illinois Mathematics and Science Academy in Aurora. With colleagues and students, Lederman carried out many seminal experiments that provided advances

in the understanding of fundamental particles and their interactions. His major work included the observation



Lederman

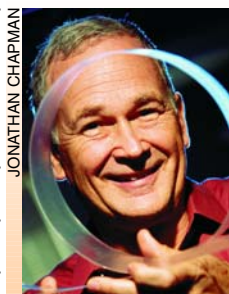
of parity violation in decay of pi mesons and muons, the discovery of the long-lived neutral kaon, the discovery that neutrinos come in at least two varieties, and the discovery of the heavy

upsilon meson, which was the first evidence for the existence of the bottom quark.

Macosko Honored Twice by SoR

For the first time, the Society of Rheology has bestowed two awards on the same person in the same year. At the SoR annual meeting in Lubbock, Texas, last month, **Christopher Macosko** received the Bingham Medal and shared the *Journal of Rheology* Publication Award with **Rui Zhao**.

The Bingham Medal, SoR’s highest honor, is given to a member of the society who has made an outstanding contribution to the science of rheology. Macosko was honored for his “outstanding contribution to the science of deformation and flow of matter.” He is a professor of chemical engineering and materials science at the University of Minnesota.



Macosko

The Publication Award recognizes an outstanding paper published in the *Journal of Rheology* during the preceding two years. Macosko and Zhao’s article, “Slip at Polymer–Polymer Interfaces: Rheological Measurements on Coextruded Multilayers,” appeared in 2002 in volume 46, page 145, of the journal. Zhao is a senior research engineer at ExxonMobil Chemical Co in Baytown, Texas.

Marrian Is AVS President-Elect

The president-elect of the AVS Science and Technology Society for

2005 is **Christie Marrian**. He succeeds **David Aspnes** (see PHYSICS TODAY, January 2004, page 65), who is now the society’s president. Marrian will become president in 2006.

Marrian studied electrical engineering at Cambridge University; there he received his BA in 1973 and his PhD in 1978. After spending three years at CERN, he joined the surface physics branch at the Naval Research Laboratory in Washington, DC, in 1980.

Five years later, Marrian started NRL’s first program in nanoelectronics; he became head of the nanoelectronics processing facility there in 1993.

From 1998 to 2001, he worked in the microsystems technology office at the Defense Advanced Research Projects Agency. He subsequently moved to IBM, where he is the manager of device and systems innovation at the company’s Almaden Research Center in San Jose, California. His research interests are nanofabrication and the properties of nanometer-scale structures and devices, specifically nanoimprint technology and biologically inspired self-assembly.

Marrian spoke of his plans for the society. “Having moved to industry,” he said, “I have become acutely aware that AVS is in a unique position to bridge the needs and interests of academia, government, and industry. To strengthen these ties, I will focus on meeting the needs of our corporate members by, for example, linking our highly skilled and motivated student members with industry.” He added that he will “develop an AVS initiative that enables academia and government to benefit from insights into the research issues of relevance to industry today.”

In other AVS election news, **Joe Greene** (University of Illinois at Urbana–Champaign) remains the society’s secretary and **John Coburn** (University of California, Berkeley) retains his position as treasurer. The new AVS directors are **David Castner** (University of Washington) and **Rachel S. Goldman** (University of Michigan). The society’s newly elected trustees are **Theodore E. Madey** (Rutgers University) and **William Sproul** (Advanced Energy Industries Inc, Fort Collins, Colorado).



Marrian