

Physicist, Chemist Will Receive Kyoto Prizes

In November, the Inamori Foundation in Kyoto, Japan, will award this year's Kyoto Prizes to one winner in each of three categories: basic science, advanced technology, and arts and philosophy. Of the recipients, two are engaged in physics-related work.

The Kyoto Prize for Basic Science, given this year in Earth and planetary sciences, astronomy, and astrophysics, will be bestowed on **Eugene N. Parker**. The foundation is honoring Parker for "establishing a new perspective on astrophysics by elucidating the phenomena of the solar wind and cosmic magnetohydrodynamics." He is the S. Chandrasekhar Distinguished Service Professor Emeritus in the University of Chicago's departments of physics and of astronomy and astrophysics, and in the university's Enrico Fermi Institute. He retired in 1995.

This year's Kyoto Prize for Advanced Technology recognizes work in materials sciences and engineering. The recipient, **George M. Whitesides**, Mallinckrodt Professor of Chemistry at Harvard University, is being honored for "pioneering a technique of organic molecular self-assembly and its applications in the field of nanomaterials science."

The laureates will each receive a diploma, a Kyoto Prize medal, and a cash prize of ¥50 million (approximately \$420 000). They will convene at the University of San Diego next March for the third annual Kyoto laureate symposium.

ASP Names Award Winners for 2003

In October, the San Francisco-based Astronomical Society of the Pacific will present its annual awards during a ceremony in Emeryville, California.

Vera Rubin will receive the ASP's highest honor, the Catherine Wolfe Bruce Gold Medal, which is given for a lifetime of outstanding research in astronomy and astrophysics. The society is acknowledging Rubin in part for her work on measuring the orbital velocities of gas and stars in galaxies—the first clear observational proof that most of the matter in the

universe is dark. She is also being recognized for her research on the large-scale streaming of galaxies. She has "made a major impact on the way astronomers view the universe," notes the society. Rubin is a senior fellow in the department of terrestrial magnetism of the Carnegie Institution of Washington in Washington, DC.

The Klumpke-Roberts Award, which recognizes outstanding contributions to the public's understanding and appreciation of astronomy, will go to the Hubble Heritage Project Team of the Space Science Telescope Institute in Baltimore, Maryland. The team, led by astronomer **Keith Noll**, produces astronomical images from the Hubble Space Telescope. The society is honoring the team for its "creation of a spectacular collection of images for the purpose of education, public interest, and outreach [that] benefits both astronomy and science in general."

Rodger Thompson and the Near Infrared Camera and Multi-Object Spectrometer (NICMOS) Instrument Definition Team at the University of Arizona, Tucson, will receive the Maria and Eric Muhlmann Award. According to the ASP, the NICMOS team has developed "innovative infrared technology that served not only the Hubble Space Telescope, but that also played a powerful role in the development of ground-based instruments and the Next Generation Space Telescope [since renamed the James Webb Space Telescope]." The award is given for outstanding contributions to the support and practice of observational astronomy.

The ASP will present its Thomas J. Brennan Award to **Gene Zajac**, teacher and planetarium director for the Shaker Heights City School District in Shaker Heights, Ohio. The society will honor Zajac for his teaching efforts, including the "development of a special summer science planetarium program for academically talented high-school students." The society also notes that in his teaching, he "frequently uses innovative models, such as a Stonehenge made of Rice Krispies, and Oreo cookies to demonstrate lunar phases." The award is given for outstanding contributions to the teaching of astronomy in grades 9–12.

Daniel Reichart will receive this

year's Robert J. Trumpler Award, which is given to a recent PhD degree recipient in North America whose research is considered important to astronomy.

Reichart's thesis, done under the guidance of Donald Lamb Jr at the University of Chicago, focused on the connection between supernovae and gamma-ray bursts (GRBs) and has led astronomers "to the current consensus that most GRBs result from the explosive death of massive stars," according to the society. Reichart is an assistant professor of

physics and astronomy at the University of North Carolina at Chapel Hill.



PHILIP BIRMINGHAM

Rubin

Academy Names Fellows, Foreign Honorary Members

In October, the American Academy of Arts and Sciences will induct 187 fellows and 29 foreign honorary members at a ceremony in Cambridge, Massachusetts. The following new fellows are physicists or work in physics-related fields:

Fred Anson, Elizabeth W. Gilloon Professor of Chemistry, Emeritus, at Caltech

Phaedon Avouris, manager of nanometer-scale science and technology, IBM Corp's T. J. Watson Research Center in Yorktown Heights, New York

Carolyn Bertozzi, Howard Hughes Investigator and professor of biochemistry and molecular biology and of chemistry at the University of California, Berkeley (UCB)

Alan Boss, research staff member in the department of terrestrial magnetism of the Carnegie Institution of Washington in Washington, DC

Paul Chaikin, Henry DeWolf Smyth Professor of Physics at Princeton University

Percy Deift, professor of mathematics at New York University's Courant Institute

Michel Devoret, professor of applied physics and of physics at Yale University

William Dietrich, professor in the department of Earth and planetary science at UCB

Ray Dolby, founder and chairman of Dolby Laboratories, Inc., in San Francisco