

WE HEAR THAT

APS Presents Awards in Ohio

At this month's meeting of the American Physical Society in Columbus, Ohio, APS is presenting the following prizes, awards and medals.

The winner of the first Hans Bethe Prize is **John N. Bahcall**, professor of natural sciences at the Institute for Advanced Study in Princeton, New Jersey. APS cites Bahcall for "his fundamental work on all theoretical aspects of the solar neutrino problem and his important contributions to other areas of nuclear astrophysics."

The Tom W. Bonner Prize is being given to **Joel M. Moss** for "his pioneering experiments using dimuon production in proton-nuclear interactions, which demonstrate that there is no antiquark enhancement in nuclei and which delineate the characteristics of charmonium and open charm production in nuclear systems." Moss is a physicist at Los Alamos National Laboratory.

The 1998 Prize to a Faculty Member for Research in an Undergraduate Institution is going to **Richard W. Peterson**, chair of the physics department at Bethel College in St. Paul, Minnesota. Peterson is cited for "establishing an outstanding research program in applied optics involving undergraduate students at Bethel College, and for his work in infrared spectroscopy and interferometry, holographic interferometry, plasma diagnostics, optical and acoustical measurements and instructional laboratory experiments in optics."

The corecipients of this year's Danie Heineman Prize for Mathematical Physics, sponsored by APS and the American Institute of Physics, are **Nathan Seiberg** and **Edward Witten**, both professors of physics at the Institute for Advanced Study. The two are sharing the prize for "their decisive advances in elucidating the dynamics of strongly coupled supersymmetric field and string theories. The deep physical and mathematical consequences of the electric-magnetic duality they exploited have broadened the scope of mathematical physics."

Douglas J. Scalapino has garnered the Julius Edgar Lilienfeld Prize for "his groundbreaking work on computational approaches to the study of quantum many-body problems, particularly those involving strongly correlated electron systems, and his exceptional ability to convey the excitement of physics to diverse audiences." Scalapino

is a professor of physics at the University of California, Santa Barbara.

APS is presenting the W. H. K. Panofsky Prize to **David R. Nygren**, a senior physicist at Lawrence Berkeley National Laboratory. The prize citation credits Nygren with "the concept, development and application of the time projection chamber (TPC), enabling unprecedented studies of complex topologies of charged particles produced in high-energy collisions of interest to both high-energy and nuclear physics."

The winner of the J. J. Sakurai Prize is **Leonard Susskind**, who has been chosen for "his pioneering contributions to hadronic string models, lattice gauge theories, quantum chromodynamics and dynamical symmetry breaking." Susskind is a professor of physics at Stanford University.

Matthew Sands is the recipient of the Robert R. Wilson Prize for "his many contributions to accelerator physics and the development of electron-positron and proton colliders and for his importance as teacher and role model for many generations of scientists." Sands is an emeritus professor at the University of California, Santa Cruz.

Anna Lopatnikova and **Cameron G. Geddes** are the two recipients of the Leroy Apker Award, which recognizes achievements in physics by undergraduates. Lopatnikova is cited for her thesis entitled "Renormalization Group Theory of Superfluidity and Phase Separation of Helium Mixtures Immersed in Aerogel." After graduating from MIT in 1997, she entered graduate school at Harvard University. Geddes is cited for his thesis entitled "Spheromak Equilibrium Studies on SSX [the Swarthmore Spheromak Experiment]." Since earning his BA in physics last year, Geddes has been working at Lawrence Livermore National Laboratory in the laser fusion program.

This year's Edward A. Bouchet Award is going to **Jose D. Garcia Jr.**, a professor of physics at the University of Arizona. Garcia is cited for "his contributions to the theory of quantum methods, including the application of time-dependent calculations to the understanding of complex collisional processes; and for providing an effective role model for all students, demonstrating that balancing service, profession and family need not compromise excellence."

Robert L. Park, a professor in the physics department at the University of Maryland, College Park and APS's director of public information, is the recipient of the Joseph A. Burton

Forum Award. The award citation praises Park for "telling it like it is" with his widely read *What's New* [a weekly electronic newsletter] and through other means on physics-related aspects of science and public policy issues."

The winner of the Dissertation in Beam Physics Award is **Bita Ghaffari**, who is recognized for her "development and study of the positron-trapping mechanism in a class of Penning traps that is expected to impact future positronium and antihydrogen research." Ghaffari received her PhD in physics in 1997 from the University of Michigan, and she is currently a postdoctoral fellow at Rice University.

Yury G. Kolomensky is the recipient of the Dissertation in Nuclear Physics Award for his "experimental work employing spin-dependent deep inelastic scattering, which resulted in the most precise determination of spin-dependent structure functions of the neutron and led to a better understanding of the dynamics of quarks and gluons." Kolomensky earned his PhD in nuclear physics in 1997 from the University of Massachusetts at Amherst. Since then he has been a postdoctoral fellow in the high-energy physics group at Caltech.

The recipient of the Maria Goeppert-Mayer Award is **Elizabeth J. Beise**, an associate professor of physics at the University of Maryland, College Park. Beise is being recognized for her "important and challenging electron scattering studies of the structure of the nucleon and few-nucleon systems, and her outstanding experimental skills and leadership ability in all phases of these studies."

The Nicholson Medal for Humanitarian Service is being presented to **Henry W. Kendall**, the J. A. Stratton Professor of Physics at MIT. APS is recognizing Kendall for "his important role in creating and leading the Union of Concerned Scientists, which has had a lasting impact on many scientific issues of concern to society, and for his outstanding personal contributions to these areas and education at all levels."

Howard Geller and **David B. Goldstein** are sharing the Leo Szilard Award for "their significant contributions to enhancing efficient energy use, particularly for applying physics and economics to optimize energy-efficient appliance standards." Goldstein is codirector of the energy program at the Natural Resources Defense Council. Geller is executive director of the American Council for an Energy-Efficient Economy, based in Washington, DC.