

we hear
that

Gilman honored for solar research

Peter A. Gilman, senior scientist at the National Center for Atmospheric Research in Boulder, Colorado, and a former director of its High Altitude Observatory, is the recipient of the 2006 George Ellery Hale Prize from the solar physics division of the American Astronomical Society. Gilman was selected "for his unique insights and substantial scientific achievements in understanding the dynamics of the solar convection zone and the mechanism of the Sun's magnetic dynamo and for his leadership and support of solar physics research programs." He receives the honor at the division's meeting in Calgary this month.

NAS elects new members

In recognition of their distinguished and original research, the National Academy of Sciences has elected 72 new members and 18 foreign associates. With this year's election, held in April during the academy's 143rd annual meeting in Washington, DC, active NAS members total 2013 and foreign associates—or nonvoting members with citizenship outside of the US—total 371.

Of the new members, 34 are involved in physics-related work.

Edward H. Adelson, professor of vision science at MIT

Leonard M. Adleman, Henry Salvatori Chair in computer science and professor of computer science and biological sciences at the University of Southern California in Los Angeles

Wolfhard Almers, senior scientist at the Vollum Institute at the Oregon Health and Science University in Portland

David Baker, investigator at the Howard Hughes Medical Institute and professor in the biochemistry depart-

ment at the University of Washington in Seattle

Jillian F. Banfield, professor of geomicrobiology and environmental biogeochemistry at the University of California, Berkeley

Paul F. Barbara, director of the Center for Nano- and Molecular Science and Technology and R. J. V. Johnson-Welch Regents Chair in Chemistry at the University of Texas at Austin

Francisco Bezanilla, professor and Pritzker Scholar in the Institute of Molecular Pediatric Sciences at the University of Chicago

David M. Ceperley, staff scientist at the National Center for Supercomputing Applications and professor of physics, both at the University of Illinois at Urbana-Champaign

Ruth S. DeFries, professor in the department of geography and at the Earth System Science Interdisciplinary Center at the University of Maryland, College Park

William A. Eaton, chief of the chemical physics laboratory in the National Institute of Diabetes and Digestive and Kidney Diseases at the National Institutes of Health in Bethesda, Maryland

Barbara J. Finlayson-Pitts, professor of chemistry at the University of California, Irvine

Donald W. Forsyth, James L. Manning Professor of Geological Sciences at Brown University in Providence, Rhode Island

Joachim Frank, investigator at the Howard Hughes Medical Institute, professor of biomedical sciences and adjunct professor of biology at the State University of New York at Albany, and head of the Laboratory of Computational Biology and Macromolecular Imaging at Health Research Inc at the Wadsworth Center in Albany, New York

James G. Fujimoto, professor of electrical engineering at MIT

Steven M. Girvin, professor of physics and applied physics at Yale University

Peter H. Gleick, co-founder and president of the Pacific Institute for Studies in Development, Environment, and Security in Oakland, California

Stephen P. Goff, investigator at the Howard Hughes Medical Institute and Higgins Professor of Biochemistry and Molecular Biophysics and professor of microbiology at Columbia University College of Physicians and Surgeons, New York City

Laura H. Greene, professor of physics and Swanlund Endowed Chair at the University of Illinois at Urbana-Champaign

Leslie F. Greengard, professor of mathematics and computer science at the Courant Institute at New York University in New York City

Eric J. Heller, professor of chemistry and physics at Harvard University

David M. Karl, professor of oceanography at the University of Hawaii at Manoa in Honolulu

Robert C. Kennicutt Jr., Plumian Professor of Astronomy at the University of Cambridge, UK

John E. Kutzbach, associate director, senior scientist, emeritus professor of atmospheric oceanic sciences and environmental studies, and Bascom-Plaenert Professor of Liberal Arts at the center for climatic research at the University of Wisconsin, Madison

Charles H. Langmuir, professor of geochemistry at Harvard University

Robert P. Lin, professor of physics and director of the Space Sciences Laboratory at the University of California, Berkeley

Ann E. McDermott, professor of chemistry at Columbia University

Jose N. Onuchic, co-director of the Center for Theoretical Biological Physics and professor of physics at the University of California, San Diego

Lyman A. Page Jr., Henry DeWolf Smyth Professor of Physics at Princeton University

E. Ward Plummer, Distinguished Professor of Physics at the University of Tennessee, Knoxville, and distinguished scientist at Oak Ridge National Laboratory

Melvyn J. Shochet, Elaine M. and Samuel D. Kersten Jr Distinguished Service Professor in Physical Sciences at the University of Chicago and chair of the US Department of Energy's High Energy Physics Advisory Panel in Washington, DC

Charles C. Steidel, Dubridge Professor of Astronomy and executive officer for astronomy at Caltech

Mark H. Thiemens, dean of the division of physical sciences, a professor of chemistry, director of the Center for Environmental Research and Training, and Chancellor's Associates Chair in the department of chemistry and biochemistry at the University of California, San Diego

David A. Tirrell, Ross McCollum-William H. Corcoran Professor, professor of chemistry and chemical engineering, and chair of the division of chemistry and chemical engineering at Caltech

Stanford E. Woosley, professor of astronomy and astrophysics at the University of California, Santa Cruz.

The following newly elected foreign associates are physicists or work in physics-related areas. Their country of citizenship is listed in parentheses.

Chunli Bai, executive vice president of the Chinese Academy of Sciences, Beijing (People's Republic of China)

Vladimir B. Braginsky, visiting associate professor in physics at Caltech and a research professor at Moscow State University (Russia)

Lennart A. E. Carleson, professor emeritus of mathematics at the Royal Institute of Technology and the University of Uppsala (Sweden)

Luiz Davidovich, professor of physics in the Institute of Physics at the Federal University of Rio de Janeiro (Brazil)

Christopher J. R. Garrett, Landsdowne Professor of Ocean Physics at the University of Victoria, British Columbia, Canada (Canada and UK)

Harold W. Kroto, professor in the department of chemistry and biochemistry, Florida State University, Tallahassee (UK)

Tullio Pozzan, professor of general pathology at the University of Padua and scientific director at the Venetian Institute of Molecular Medicine (Italy).

in brief

Jay Marx, an experimental particle physicist who in recent decades has directed several high-profile physics projects around the country, has been named executive director of the Laser Interferometer Gravitational-Wave Observatory (LIGO) at Caltech. Marx succeeds **Barry C. Barish**, the Ronald and Maxine Linde Professor of Physics, Emeritus, at Caltech, who led the LIGO project through its construction and into its first major science runs. Barish has said he will now focus on directing the global design effort for the proposed International Linear Collider, although he will continue to be involved in LIGO research. Marx, who began at his new post on 14 March, had been a senior physicist at Lawrence Berkeley National Laboratory since 1981.

Raymond E. Goldstein has been named Schlumberger Professor of Complex Physical Systems in the applied mathematics and theoretical physics department at the University of Cambridge, UK. A professor of physics and applied mathematics at the University of Arizona, Tucson, since 1996, Goldstein begins on 1 September at his new post, where his research will focus on theoretical and ex-

perimental studies of nonlinear and nonequilibrium systems with particular emphasis on biological physics. At the University of Arizona, where he is also a member of the B105 Institute, he did influential work on biophysical elasticity, the fluid dynamics of collective bacterial swimming, and the dynamics of stalactite growth.

Atsuto Suzuki, vice president of Tohoku University in Sendai, Japan, and director of its Research Center for Neutrino Science, is the new director general of KEK, the Japanese high-energy accelerator research organization. He took over from **Yoji Totsuka** on 1 April and will serve for three years. Prior to joining Tohoku University, Suzuki was involved in underground neutrino experiments at the Kamioka Observatory in Gifu province.

Yuri Kovchegov, an assistant professor in the nuclear theory group of the physics department at the Ohio State University, and **Thomas Glasmacher**, professor in the physics and astronomy department and associate director for operations at the National Superconducting Cyclotron Laboratory at Michigan State University, are the recipients of the 2006 Raymond and Beverly Sackler Prize in the Physical Sciences. Kovchegov was selected for "ground-breaking contributions to theoretical understanding of quantum chromodynamics at very high energies and gluon densities," and Glasmacher won for his "development of new sensitive methods of studying nuclear structure, utilizing Coulomb excitation with fast beams of rare isotopes." The prize is administered by Tel Aviv University.

obituaries

PHYSICS TODAY has changed the way it publishes obituaries. Some will continue to appear in print, but most will be available only online (see PHYSICS TODAY, October 2005, page 10). Subscribers can visit <http://www.physicstoday.org/obits> to notify the community about a colleague's death and submit obituaries up to 750 words, comments, or reminiscences. Each month, recently posted material will be summarized here, in print. Select online obituaries will later appear in print.

Darwin Chang

Darwin Chang, a prominent theoretical physicist, succumbed to stomach cancer on 29 December 2005 in Taipei, Taiwan.

Darwin was born on 29 June 1954 in Taichung, Taiwan. After undergraduate study in physics at National Taiwan University, he received his PhD in particle theory from Carnegie Mellon University in 1983 under one of us (Wolfenstein). His creativity, productivity, and passion for physics were already apparent at Carnegie Mellon. He worked so quickly and independently after discussing an idea with Wolfenstein that the two somehow never published together. A paper he authored by himself on spontaneous *CP* violation is well cited.

In 1983 Darwin moved to the University of Maryland in College Park as a postdoc, and he flourished there. In just three years, he published with Rabinendra Mohapatra and others more than 30 papers on left-right models, *SO*(10) grand unification, neutrino physics, and numerous other topics. In

the words of Mohapatra, "It was so much fun and so stimulating to discuss physics with Darwin. He was not only an extremely insightful physicist, but he was among the hardest-working and [most] brilliant collaborators that I have known in my lifetime."

Darwin joined the faculty of Northwestern University in 1986, and in 1987 he received the Outstanding Junior

Recently posted death notices at <http://www.physicstoday.org/obits>:

Yuval Ne'eman

14 May 1925–26 April 2006

Gordon L. Shaw

20 September 1932–25 April 2005

Theodore Prey Jorgensen

1905–04 April 2006

Theodore Prey Jorgensen

13 November 1905–02 April 2006

Ulrich Wolfgang Arndt

23 April 1924–24 March 2006

Robinson Derry Burbank

03 October 1921–09 February 2006