

WE HEAR THAT

Fermi Award Given for Work in Nuclear Energy

In a ceremony in Washington, DC, on 16 April, **Maurice Goldhaber** and **Michael E. Phelps** are to be honored as the recipients of the Enrico Fermi Award. The award, given for a lifetime of achievement in the field of nuclear energy, carries a \$100 000 honorarium and a gold medal.

Goldhaber is a distinguished scientist emeritus at Brookhaven National Laboratory and an adjunct professor of physics at the State University of New York at Stony Brook. He is being cited "for his lifetime of distinguished research in nuclear and particle physics, including his experiments providing key support for the standard model, and for his superb contribution to science by his leadership and vision as a manager of research." Goldhaber was the first to measure accurately the mass of the neutron, and was part of the Super Kamiokande collaboration that in 1998 found evidence that neutrinos have mass.

Phelps is being honored "for his invention of Positron Emission Tomography (PET), and his seminal contributions in its use in research and patient care in neurological disorders, cardiovascular disease and cancer; and for the breadth of his accomplishments that combine physics, mathematics, chemistry, biology and medical applications." He is chairman of the department of molecular and medical pharmacology at UCLA's School of Medicine.

McDonnell Foundation Awards \$1 Million Fellowships

In January, the James S. McDonnell Foundation named ten early-career researchers as "Centennial Fellows" to mark the 100th anniversary of the birth of aerospace pioneer James S. McDonnell Jr, one of the founders of what became the McDonnell Douglas Corp. The \$1 million research fellowships targeted "scientist-scholars whose work will contribute substantially to the development of knowledge and its responsible application in the next century." They were awarded to two scientists in each of five categories: astrophysics and cosmology, human genetics, global and complex systems, human cognition, and the history and

philosophy of science. Among the fellows are three pursuing physics-related research.

John Carlstrom, a professor of astronomy and astrophysics at the University of Chicago and associate director of the university's Center for Astrophysical Research in Antarctica, received one of the awards in the astrophysics and cosmology category. According to the foundation, he "has contributed heavily to our understanding of young stars, protoplanetary systems and rich clusters of galaxies." Carlstrom proposes to build a telescope dedicated to measuring the interaction between the cosmic microwave background radiation and the hot gas associated with distant, rich clusters of galaxies. He was recently named a MacArthur fellow as well (PHYSICS TODAY, August 1998, page 75).

The other recipient in the astrophysics and cosmology category was **Christopher Stubbs**, a professor of astronomy at the University of Washington. The foundation recognized Stubbs for having designed and built the camera for the search for gravitational microlensing due to massive halo compact objects, or MACHOs, in the Galactic halo. Stubbs proposes to build a much larger camera and to deploy it at a telescope in Chile to further efforts to map the mass composition of the Galaxy and, perhaps, to detect extrasolar planets as well.

Stefan Rahmstorf received one of the awards in the global and complex systems category. An oceanographer and climatologist at the Potsdam Institute for Climate Impact Research in Germany, Rahmstorf will combine atmospheric and ocean models to create a sophisticated coupled climate model. The foundation anticipates that "his new model will enable us to understand climatic cycles much better than is now possible, and open up a vast range of important research questions that cannot be tackled satisfactorily with traditional models."

Clinton Honors Outstanding Young US Scientists

In February, President Clinton named 160 young researchers as recipients of the third annual Presidential Early Career Awards for Scientists and Engineers. At the award ceremony, Presidential science adviser Neal Lane cited the honorees "for their research contributions, for their promise, and for their

commitment to broader societal goals." The awardees, who will each receive five-year research grants, were nominated by eight Federal agencies: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, and Veterans' Affairs, the Environmental Protection Agency, NASA and the National Science Foundation.

Among the recipients are 29 who are pursuing physics-related research: **Mario Affatigato** of Coe College, **Mitchell Albert** of the Longwood Medical Research Center, **Eric Altman** of Yale University, **Mari Lou Balmer** of Pacific Northwest National Laboratory, **Michael Bergin** of the National Oceanic and Atmospheric Administration, **Daniel Blumenthal** of the University of California, Santa Barbara, **Janet Conrad** of Columbia University, **Elizabeth Dickey** of the University of Kentucky, **Rhonda Drayton** of the University of Minnesota, **Shirley Dyke** of Washington University, **Cassandra Fraser** of the University of Virginia, **Sharon Glotzer** of the National Institute of Standards and Technology (Gaithersburg, Maryland), **Miroslav Krstic** of the University of California, San Diego, **Tonya Kuhl** of the University of California, Santa Barbara, **James Lee** of Oak Ridge National Laboratory, **Roya Maboudian** of the University of California, Berkeley, **Scot Martin** of the University of North Carolina at Chapel Hill, **Anthony Mezzacappa** of Oak Ridge National Laboratory, **John O'Brien** of the University of Southern California, **Christopher Palmer** of the New Mexico Institute of Mining and Technology, **Robert Parker** of Ohio State University, **Howard Pearlman** of the University of Southern California, **Guillermo Sapiro** of the University of Minnesota, **Shobita Satyapal** of NASA's Goddard Space Flight Center, **Joseph Shaw** of the National Oceanic and Atmospheric Administration, **Azadeh Tabazadeh** of NASA's Ames Research Center, **Paul Wennberg** of Caltech, **Andrew Westphal** of the University of California, Berkeley, and **Gary Wiederrecht** of Argonne National Laboratory.

Engineering Academy Announces New Members

The National Academy of Engineers has elected 80 new members, bringing the academy's total US membership to 1984. It also has designated