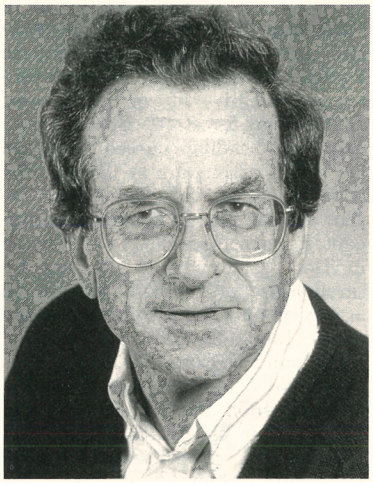
## PACKARD FELLOWSHIPS HONOR YOUNG FACULTY

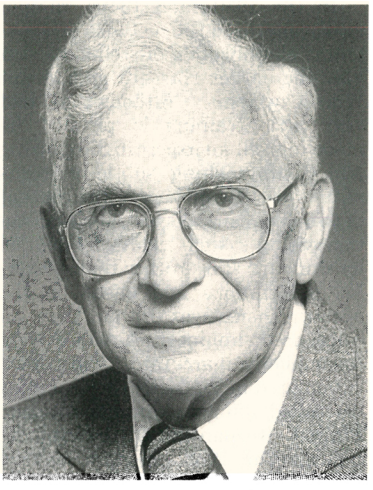
In October the David and Lucile Packard Foundation announced the names of 20 assistant professors in science and engineering who will receive its 1994 fellowships, worth $500 000 each. The honored faculty include **David Baker** of the University of Washington, who is working to understand protein folding and contributing to research in intracellular protein transport and x-ray crystallography; **Nicholas P. Bigelow** of the University of Rochester, New York, whose work involves quantum atom optics and the preparation, interaction and manipulation of cold atomic vapors; **Roger T. Bonnecaze** from the University of Texas, Austin, who studies the transport and mixing of suspensions and powders; **John E. Carlstrom** from Caltech, whose research focuses on the processes of star and planetary formation; **Robert E. Continetti** of the University of California, San Diego, whose work centers on the energetics and dissociation dynamics of reactive intermediates; **James C. Davis** of the University of California, Berkeley, whose work concerns the fabrication and characterization of atomic-scale electronic devices and nanoscale mechanical structures; **David G. Grier** of the University of Chicago, who studies the microscopic mechanisms of phase transitions in colloidal suspensions; **Martin Gruebele** of the University of Illinois, Urbana–Champaign, who focuses on biomolecular ion–molecule reactions; **James R. Heath** of the University of California, Los Angeles, whose work concerns the chemistry and physics of size and shape on a nanometer length scale for group IV quantum crystals; **Alan T. Johnson** of the University of Pennsylvania, whose research concerns the electronic properties of nanostructures; **Lyman A. Page** of Princeton University, who does measurements and characterization of the anisotropy in the cosmic microwave background radiation; **Christopher W. Stubbs** of the University of California, Santa Barbara, whose work is aimed at the detection of dark matter in the universe; and **Jeroen Tromp** of Harvard University, who is studying the global propagation of earthquake-generated seismic waves.

## AAPT AWARDS GO TO MERMIN AND REIF

At the summer meeting of the American Association of Physics Teachers, held at Notre Dame University in August, **N. David Mermin** and **Frederick Reif** received recognition for their contributions to physics education.



N. David Mermin



Frederick Reif

Mermin, the Horace White Professor of Physics at Cornell University, was the Klopsteg Memorial Lecturer; his talk was entitled "More Quantum Magic." AAPT cited him for his "numerous pedagogical and popular articles" as well as his Reference Frame columns published in PHYSICS TODAY.

Reif, a Distinguished Service Professor in the Center for Innovation in Learning and in the departments of physics and psychology at Carnegie Mellon University, received the Robert A. Millikan Medal. Reif was cited for "his many important contributions to the teaching of physics and to the understanding of the learning process, especially in relation to science."

## OSA PRESENTS ENGINEERING AWARDS IN DALLAS

At its 1994 annual meeting, held in Dallas in October, the Optical Society of America presented Engineering Excellence Awards to three employees of Polaroid. **Peter P. Clark,** an engineering fellow at Polaroid, received the award for "optical design and engineering of the Polaroid Microcam, a fully automatic, single-lens reflex instant camera for photographing a specimen through a light microscope." **John Michael Guerra,** a principal engineer, was cited for "the invention and development of the photon tunneling microscope, which produces topographic images of surface structures with a horizontal resolution of 0.1 microns and a vertical resolution of a few angstroms." The third engineering award went to **Jon Van Tassell,** a senior principal engineer, for "optical design and engineering of the Polaroid Captiva camera, a compact, fully automatic camera."

A number of other individuals received awards during the meeting; see PHYSICS TODAY, June, page 90.