

## OSA AWARDS MARK ACHIEVEMENTS IN MANY FACETS OF OPTICAL SCIENCE

Each year the Optical Society of America recognizes outstanding work in optics by presenting several awards, prizes and medals. The following are some of the honors given by OSA during the past two years.

In 1988 a Distinguished Service Award was given to Franklin S. Harris Jr, acknowledging his "contributions to the indexing of the optical literature, particularly the cumulative and annual indexes of the journals of the Optical Society of America." Harris completed his undergraduate and master's studies (1931, 1936) at Brigham Young University, and went on to receive his PhD in physics from Caltech (1941). He joined the faculty of the University of Utah in 1943, and left in 1962, having become a professor of physics there. From 1962 until 1970 he worked in atmospheric optics for Aerospace Corp, El Segundo, California, and from 1971 until 1978 he was a research professor of physics at Old Dominion University, in Norfolk, Virginia. Since his retirement from research in 1978, Harris has been living in Rockville, Utah, where he works in his home on the indexing of OSA journals.

In 1987 John N. Howard received a Distinguished Service Award "in recognition of his service to the Society...as editor of *Applied Optics*." Howard received his BS from the University of Florida, Gainesville, and his MS and doctorate in physics (1954) from Ohio State University, Columbus. He spent almost all of his physics career at the Air Force Geophysics Lab in Bedford, Massachu-

setts, where he worked in atmospheric infrared optics. From 1960 until 1987 he was the founding editor of *Applied Optics*, and he is currently the editor of *Optics News*.

In 1988 the Tillyer Award for work in the study of vision went to Russell De Valois, for his "contributions to the understanding of visual mechanisms, particularly his analyses of the encoding of wavelength, luminance, and spatial information." De Valois received his undergraduate degree in zoology/physiology and his master's degree in psychology, both from Oberlin College, and went on to earn a doctorate in physiological psychology (1952) from the University of Michigan. In 1968, after appointments at the University of Michigan and Indiana University, he joined the faculty at the University of California, Berkeley, where he is now a professor of psychology, physiological optics and neurobiology. The Tillyer Award, not given more often than every two years, is sponsored jointly by OSA and the Laser and Electro-Optics Society.

The 1988 Charles Hard Townes Award in quantum electronics went to Arthur Ashkin of AT&T Bell Labs (*PHYSICS TODAY*, April 1988, page 75); in 1987, the award went to Hermann A. Hauss of MIT (*PHYSICS TODAY*, March 1987, page 62).

In 1987 the first John Tyndall Award in fiber-optic technology was presented to Michael K. Barnoski, in recognition of his "invention of devices and instruments fundamental to fiber optic technology and the leadership that he has exhibited both in professional societies and in industry

in advancing optical communication technology." Barnoski earned his bachelor's degree in science and electrical engineering (1963) from the University of Dayton, and his MS (1965) and PhD (1968) in electrical engineering from Cornell. From 1969 until 1979 he was a researcher at the Hughes Research Lab in Malibu, California, attaining the position of manager of the lab's optical circuit department. From 1979 until 1983 he was the founding director of TRW's Technical Research Center, and upon leaving TRW he cofounded, with Corning Glass Works, PCO Inc, a maker of supplies for interfacing electronic equipment with optical fibers. Barnoski has been chief executive officer of PCO Inc since its inception.

The 1987 Tyndall Award was given to Robert D. Maurer, noting his "contributions to the discovery and understanding of materials and techniques for the fabrication of glass fiber waveguides for optical communication." Maurer received a BS (1948) from the University of Arkansas and a PhD (1951) from MIT. In 1952 he joined Corning Glass Works, where he is now a research fellow. (Maurer's work is discussed in greater detail in *PHYSICS TODAY*, March, page 61).

The 1988 William F. Meggers Award in spectroscopy was presented to W. Carl Lineberger, recognizing his "discovery and understanding of the basic chemistry, spectroscopy, and physics of atomic and molecular negative ions, including the first evidence for bound excited electronic states in negative ions." Lineberger did his undergraduate, master's and doctoral work (PhD, 1965) at the Georgia