



Editorial

Jack D. Gaskill, Editor

SPIE Awards for 1988

This editorial is devoted to the winners of various SPIE awards that were presented at the Society's 32nd Annual Symposium in San Diego this August and at the International Congress on Optical Science and Engineering in Hamburg this September.

Each year SPIE awards scholarships to deserving students who are engaged in optical engineering programs and related disciplines. The recipient of the highest SPIE scholarship also receives the D. J. Lovell Scholarship, and the winner of these scholarships for 1988 was **Shu-i Wang**, a graduate student at the Optical Sciences Center, University of Arizona, who is studying the effects of aberrations on three-dimensional transfer functions. The total amount of these two scholarships is \$7,000.

The following 14 individuals were elected to Fellow because of their noteworthy accomplishments and contributions to the field of optical engineering and to SPIE: **Leo H. J. F. Beckmann**, Research and Engineering, Oldelft, Netherlands; **Ming-Wen Chang**, Optical Sciences Center, National Central University, Taiwan; **Ronald E. Douglass**, Boeing Aerospace Company; **Janet S. Fender**, Air Force Weapons Laboratory; **B. Roy Frieden**, Optical Sciences Center, University of Arizona; **Hsieh-Sheng Hou**, The Aerospace Corporation; **H. Angus Macleod**, Optical Sciences Center, University of Arizona; **Aden B. Meinel**, Jet Propulsion Laboratory; **Emery L. Moore**, Litton Systems, Inc.; **Lewis J. Pinson**, University of Colorado; **M. J. Soileau, Jr.**, Center for Research in Electro-Optics and Lasers, University of Central Florida; **Robert F. Wagner**, Center for Devices and Radiological Health, FDA; **Hugo Weichel**, Defense Nuclear Agency; and **T. R. Whitney**, Pacific Infrared.

The Technology Achievement Award recognizes outstanding accomplishment in the reduction to practice of optical engineering technology. The 1988 SPIE Technology Achievement Award was presented to the **WYKO Corporation** for developing practical, well-designed, and carefully engineered software and instrumentation for optical surface quality metrology.

The Rudolf Kingslake Medal and Prize is awarded in recognition of the most noteworthy original paper to appear in *Optical Engineering* on the theoretical or experimental aspects of optical engineering. The recipient of the Kingslake Medal and Prize for 1987 is **Chris P. Kirk** of KLA Instruments Corporation for his paper "Design of an automated optical microscope for measuring the critical dimensions of magnetic recording heads," which appeared in the June 1987 issue of *Optical Engineering*.

The Dennis Gabor Award recognizes outstanding inventive accomplishment in the field of optics in the broadest sense. The 1988 Dennis Gabor Award was presented in Hamburg to **Trevor Moss** of the United Kingdom, for his contributions to infrared physics and semiconductor optoelectronics.

The Gold Medal of the Society, SPIE's principal award, recognizes outstanding accomplishments in optical engineering. The 1988 Gold Medal was awarded to **Andrew G. Tescher** of Lockheed Palo Alto Research Laboratories for his many important contributions to optical engineering and to SPIE.

This is indeed an impressive list of award winners, and I'm certain that you join me in congratulating all of them on their accomplishments.

OPTICAL ENGINEERING EDITORIAL SCHEDULE

January 1989

Contributed papers on optical engineering

February 1989

Polarization Considerations for Optical Systems

Russell A. Chipman
Center for Applied Optics
University of Alabama in Huntsville
Huntsville, AL 35899
205/895-6307

March 1989

Optical Computing

Sing H. Lee Electrical & Computer Engineering Univ. of California, San Diego La Jolla, CA 92093 619/534-2413	Ravindra A. Athale BDM Corporation 7915 Jones Branch Dr. McLean, VA 22102-3396 703/848-7556
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April 1989

Contributed papers on optical engineering

May 1989

Industrial Applications of Optical Signal Processing III

Bahram Javidi
Univ. of Connecticut
Dept. of Electrical Engineering
U-157, Room 312
Storrs, CT 06268
203/486-4816

June 1989

Applications of Holography II

Lloyd Huff
Univ. of Dayton Research Institute
300 College Park
Dayton, OH 45469

July 1989

Visual Communications and Image Processing

T. Russell Hsing Bell Communications Research Room 2P-198 435 South St. Morristown, NJ 07960-1961 201/829-4950	Kou-Hu Tzou Bell Communications Research Rm. 3B-311 331 Newman Springs Rd. Red Bank, NJ 07701-7020 201/758-2857
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August 1989

Contributed papers on optical engineering

September 1989

Medical Imaging

Roger Schneider
Institute for Regulatory Science
6319 Massachusetts Ave.
Bethesda, MD 20816
301/229-0403