

2006 OSA Fellows

Forty-eight OSA members were elevated to the rank of Fellow by the Board of Directors in October 2005. These new fellows will be recognized at meetings throughout 2006.

The next deadline for nominations is June 15, 2006. More information is available from the OSA Awards Office (e-mail awards@osa.org or telephone 1.202.416.1960).

>> Aharon J. Agranat

The Hebrew University of Jerusalem, Israel

For the invention of a new electro-optic and photorefractive crystal, KLTN, and for establishing the concept of electroholography and its application in WDM networks.

>> Jeremy J. Baumberg

University of Southampton, U.K.

For pioneering developments in the ultrafast spectroscopy and investigation of photonics materials including magnetic semiconductors, coherent control, photonic crystals, semiconductor microcavities and nano-materials.

>> Philippe C. Becker

Wasserstein Ventures, Columbia, Maryland, U.S.A.

For contributions to the development of ultrafast lasers and their use in spectroscopy, and for the development of erbium-doped fiber amplifiers.

>> János A. Bergou

Hunter College of The City University of New York, New York, U.S.A.

For pioneering theories on noise in lasers and masers which identified the importance of pump statistics and lead to suppression of quantum noise and squeezed light in active systems.

>> Anders Bjarklev

Technical University of Denmark, Lyngby, Denmark

For contributions to research and education on optical waveguides, optical fiber amplifiers and pho-

tonic crystal fibers in the field of optical communications.

>> Daniel J. Blumenthal

University of California, Santa Barbara, California, U.S.A.

For contributions to ultrafast optical wavelength conversion, packet OTDM, signal processing and regeneration.

>> Allan Dawson Boardman

University of Salford, Salford, U.K.

For seminal contributions to nonlinear wave phenomena including surface polaritons, nonlinear guided waves, solitons and magneto-optics, and exemplary leadership and service to the optics community.

>> Robert Russell Butts

MZA Associates, Albuquerque, New Mexico, U.S.A.

For outstanding contributions to the advancement of High Energy Laser beam control in adaptive optics, tracking and pointing and in understanding the science of laser propagation in the atmosphere.

>> W. Andrew Clarkson

University of Southampton, U.K.

For pioneering contributions to solid-state lasers and fiber lasers, particularly in techniques for scaling their power and brightness.

>> Jean-Louis de Bougrenet de la Tocnaye

École Nationale Supérieure des Télécommunications de Bretagne, Brest, France

For contributions in the field of optical signal processing for

telecommunications based on liquid-crystal-device physics.

>> Vittorio Degiorgio

Università de Pavia, Italy

For pioneering contributions to the fields of photon statistics, laser-phase transition analogy, intensity-correlation spectroscopy and its applications to statistical physics, and nonlinear optics.

>> David J. DiGiovanni

OFS Laboratories, Somerset, New Jersey, U.S.A.

For extensive contributions and leadership in the fabrication and application of fiber amplifier and lasers.

>> Jonathan P. Dowling

Louisiana State University, Baton Rouge, Louisiana, U.S.A.

For fundamental contributions to optics in the areas of photonic crystals, quantum imaging, quantum metrology, and quantum information processing, and for service to OSA.

>> Daniel J. Gauthier

Duke University, Durham, North Carolina, U.S.A.

For contributions in nonlinear optics, including measurement of the information velocity, development of low-light-level optical switches, and controlling optical chaos.

>> Patrick Georges

CNRS, Institut d'Optique, Orsay, France

For contributions to the development of solid state lasers based on novel crystals and their applications in all time regimes from continuous emission through femtoseconds.

>> John A. Hoffnagle

IBM Almaden Research Center, San Jose, California, U.S.A.

For innovative contributions to holographic data storage, laser beam reshaping and interferometric lithography for characterization of advanced photoresist materials.

>> Qing Hu

Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.

For pioneering contributions to the development of long-wavelength terahertz (THz) quantum-cascade lasers.

>> Stephen D. Jacobs

University of Rochester, New York, U.S.A.

For significant contributions to the development and understanding of magneto-rheological finishing and liquid crystal optics, and for pioneering work in educational outreach and teacher training.

>> Huabei Jiang

University of Florida, Gainesville, Florida, U.S.A.

For pioneering contributions to near-infrared diffuse optical tomography.

>> Ron Kaspi

Air Force Research Laboratory, Kirtland Air Force Base, New Mexico, U.S.A.

For seminal contributions to the science and technology of semiconductor materials and mid-infrared semiconductor lasers.

>> Christoph H. Keitel

Max Planck Institute for Nuclear Physics, Heidelberg, Germany

For pioneering the field of quantum relativistic laser-matter interaction and predicting numerous laser-induced interference and QED effects.

>> Wolfgang Ketterle

Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.

For pioneering work in the production and application of coherent matter waves.

>> Giok Djan Khoe

Technical University Eindhoven, Eindhoven, Netherlands

For sustained pioneering contributions in optical fiber com-

munication technologies and for leadership in Dutch university-based optical research and education activities.

>> Jacob B. Khurgin

Johns Hopkins University, Baltimore, Maryland, U.S.A.

For outstanding original contributions to the physics of nonlinear optical and electro-optical properties of semiconductors, especially the low-dimensional semiconductor structures.

>> Normand M. Laurendeau

Purdue University, West Lafayette, Indiana, U.S.A.

For creating an internationally recognized program in the development and application of laser-induced fluorescence to the combustion sciences.

>> Guifang Li

University of Central Florida, Orlando, Florida, U.S.A.

For seminal contributions to all-optical clock recovery, all-optical regeneration, advanced modulation formats for optical transmission and RF photonics.

>> Vladimir Petrovich Lukin

Institute of Atmospheric Optics, Tomsk, Russia

For outstanding fundamental and applied research of optical wave propagation through atmospheric turbulence, remote sensing, and adaptive optics theory development.

>> Barry Luther-Davies

Australian National University, Canberra ACT, Australia

For outstanding pioneering contributions to laser physics and nonlinear optical materials, including nonlinear optics, laser material processing, and laser-produced plasmas and plasma diagnostics.

>> Lute Maleki

Jet Propulsion Laboratory, Pasadena, California, U.S.A.

For unique contributions to the science and technology of optical

generation of microwave references and to optical whispering gallery mode microresonators.

>> John Barry McManus

Aerodyne Research, Inc., Billerica, Massachusetts, U.S.A.

For the design, fabrication, and utilization of innovative tunable infrared laser instruments to address air quality and global change issues.

>> Paul Morton

Morton Photonics, West Friendship, Maryland, U.S.A.

For fundamental contributions to high-speed optical transmitters and implementation into DWDM transmission systems.

>> Radhakrishnan L. Nagarajan

Infinera Corporation, Sunnyvale, California, U.S.A.

For the design, development and commercialization of high-speed, high-power semiconductor lasers and large-scale photonic integrated circuits.

>> Lynn E. Nelson

Lucent Technologies, Murray Hill, New Jersey, U.S.A.

For outstanding contributions to the advancement of high bit rate, long haul optical fiber transmission systems.

>> Leonard John Otten III

Photon Research Associates, Inc., Arlington, Virginia, U.S.A.

For significant accomplishments in aero-optics, ophthalmic instrumentation, adaptive optics, hyperspectral imaging and high energy laser beam propagation and testing.

>> Mario J. Paniccia

Intel Corporation, Santa Clara, California, U.S.A.

For seminal research contributions in the area of silicon-based photonic integrated devices, with emphasis on modulators and lasers.

>> Kunchi Peng

Shanxi University, Taiyuan, China

For contributions in studying quantum measurements and quantum information processing with continuous variables and for leadership in developing quantum optics in China.

>> Joseph W. Perry

Georgia Institute of Technology, Atlanta, Georgia, U.S.A.

For innovative contributions to the understanding and application of the nonlinear optical properties of organic materials.

>> Ronald L. Phillips

Florida Space Institute, Orlando, Florida, U.S.A.

For sustained contributions to optics education and to the fundamental understanding of atmospheric turbulence effects in optics.

>> David V. Plant

McGill University, Montreal, Quebec, Canada

For contributions to the advancement of free-space optical interconnects and enabling optoelectronic-VLSI devices.

>> Harvey N. Rutt

University of Southampton, U.K.

For pioneering contributions to infrared science and technology including the discovery and development of new optically pumped molecular laser systems.

>> James D. Spinhirne

NASA Goddard Space Flight Center, Greenbelt, Maryland, U.S.A.

For development of measurement and analysis methods leading to remote sensing instruments and observations widely used by the atmospheric science research community.

>> Junji Tominaga

Center for Applied Near-Field Research, National Institute of Advanced Industrial Science & Technology, Tsukuba-city, Japan

For outstanding research and continuing strong leadership in the field of near-field optical phenomena, especially plasmon-based optical storage media.

>> Anne Tropper

University of Southampton, U.K.

For pioneering work in the development of rare-earth-doped glass fiber lasers, planar waveguide lasers, and ultrashort-pulse semiconductor lasers.

>> Din Ping Tsai

National Taiwan University, Taipei, Taiwan

For specific achievements in the areas of near-field optics and nano-photonics, nano optical imaging and storage, and near-field optical storage.

>> Kevin John Webb

Purdue University, West Lafayette, Indiana, U.S.A.

For pioneering contributions to optical diffusion tomography, the characterization of scattering media, and the development of functional field transformers.

>> Jun Ye

JILA, National Institute of Standards and Technology and University of Colorado, Boulder, Colorado, U.S.A.

For the use of optical frequency combs to combine ultrafast science and precision measurements.

>> Shi-Yao Zhu

Hong Kong Baptist Univ., Hong Kong

For pioneering work in quantum optics and laser physics with particular reference to lasing without inversion and quenching of spontaneous emission noise.

>> Richard W. Ziolkowski

University of Arizona, Tucson, Arizona, U.S.A.

For contributions to computational electromagnetics modeling of linear, nonlinear, and ultrafast optical phenomena in complex media, metamaterials, and photonic band gap structures.