

Meet OSA's 2013 Fellows

OSA is pleased to announce the 2013 class of Fellows, who have been selected for distinction due to their significant contributions to the advancement of optics and photonics. From among the 149 candidates, 72 were chosen for this honor and confirmed by the Board of Directors at its meeting in October 2012.

OSA would like to thank both the nominators for their efforts on behalf of the candidates and the members of the Fellow Members Committee who reviewed the nominations. This year's committee included Kishan Dholakia (chair), Howard J. Carmichael, Ann Catrina Coleman, Cornelia Denz, Qihuang Gong, Mary A. Johnson, Siu-Au Lee, Walter Margulis, Toshio Morioka, Nirmala Ramanujam, Kevin P. Rolland-Thompson, Narsingh Bahadur Singh, James J. Wynne and James R. Leger.

Nominations for next year are due by 15 June 2013. For information, contact the OSA Awards Office (awards@osa.org; +1 202.416.1960) or see www.osa.org.

Our congratulations to the new Fellows, many of whom will be honored at OSA conferences throughout the year.



Thorsten Ackemann

*University of Strathclyde,
United Kingdom*

For outstanding contributions in nonlinear photonics, in particular self-organization and properties of dissipative solitons in optical systems and semiconductor laser spin and polarization dynamics.



Jacques Albert

Carleton University, Canada

For outstanding and sustained contributions to the science and technology of fiber Bragg gratings and their applications.



Georges Boulon

*Université Claude Bernard/
Lyon 1 (emeritus), France*

For a long, distinguished record of accomplishments in the optical spectroscopy of rare earth and transition metal ions-doped materials relevant to solid-state lasers and phosphors for lighting.



Shoou-Jin Chang

*National Cheng Kung
University, Taiwan*

For leadership in high brightness light-emitting diodes, laser diodes and photodetectors.



Sabino Chavez-Cerda

*Instituto Nacional de Astrofísica,
Óptica y Electrónica, Mexico*

For world-leading contributions to understanding exotic optical beams and service on OSA committees.



Albert Chin

*National Chiao Tung
University, Taiwan*

For contribution to resonantly enhanced photodiodes, sub-picosecond photo-response applications and display devices.



Jean Dalibard

École Normale Supérieure, France

For groundbreaking theoretical work on atom–light interactions—including the elucidation of new laser cooling mechanisms—and for seminal experimental work on the optical manipulation of cold atoms and quantum gases.



John Dallesasse

University of Illinois at Urbana-Champaign, U.S.A.

For the co-invention of III-V oxidation and the application of that technology to photonic devices.



Andrew Dentai

Infinera Corporation, U.S.A.

For contributions to the development of optoelectronic devices for lightwave transmission systems, including 1.3 μm LEDs, InP photodiodes and InP photonic integrated circuits.



Judith Donnelly

Three Rivers Community College, U.S.A.

For outstanding dedication to engaging middle school, high school and college students in optical science and engineering education.



David Erickson

Cornell University, U.S.A.

For co-founding “optofluidics,” a new research area that combines optics with microfluidics.



Ildar Gabitov

University of Arizona, U.S.A.

For pioneering contributions in the areas of dispersion-managed telecommunication systems, statistical physics of optical communications, and nonlinear optics in metamaterials.



Philippe Grangier

Institut d’Optique, France

For breakthroughs in fundamental quantum optics, based on the invention and development of experimental methods and techniques that led to groundbreaking applications in quantum information.



Katherine L. Hall

WiTricity Corporation, U.S.A.

For contributions to the understanding of ultrafast semiconductor devices, development of advanced fiber communication systems and entrepreneurship in optics.



Christoph Harder

Harder & Partner GmbH, Switzerland

For his pioneering contributions to the development and commercialization of high-power 980-nm pump lasers for telecom optical amplifiers.



Erez Hasman

Technion Israel Institute of Technology, Israel

For pioneering contributions in the field of nanophotonics, and specifically for developing a new branch in optics—spinoptics: the symmetry breaking in nanostructures due to spin-orbit interaction.



Majeed M. Hayat

University of New Mexico, U.S.A.

For pioneering the dead-space formulation of impact ionization and noise in avalanche photodiodes and developing nonuniformity correction algorithms for infrared sensors.



Michael Heaven

Emory University, U.S.A.

For spectroscopic studies elucidating the van der Waals interactions of free radicals, electronic structures of heavy-element compounds and energy transfer dynamics of lasers.



Fred L. Heismann

JDSU Optical Networks Research Lab, U.S.A.

For seminal and sustained contributions to the understanding and control of polarization effects in optical fiber systems through the realization and use of integrated-optical devices.



Christoph K. Hitzenberger

Medical University of Vienna, Austria

For pioneering contributions to biomedical optics, with a special emphasis on optical coherence tomography, ocular biometry and ocular imaging.



Paul W. Juodawlkis

MIT Lincoln Laboratory, U.S.A.

For significant contributions to optically sampled analog-to-digital conversion and the development of the slab-coupled optical waveguide amplifier.



Saulius Juodkazis

Swinburne University of Technology, Australia

For outstanding contributions to three-dimensional optical structuring and manipulation of matter from micro- to nanoscale and their applications.



Martti Kauranen

Tampere University of Technology, Finland

For pioneering contributions to the nonlinear optics of surfaces, thin films and nanostructured materials, including multipole effects in their nonlinear response.



Yoshimasa Kawata

Shizuoka University, Japan

For outstanding contributions in next-generation multilayered optical data storage by utilizing confocal and multiphoton microscopy.



Gerd Keiser

PhotonicsComm Solutions, U.S.A.

For significant contributions to photonics education and applications through books, papers, university teaching, short courses, keynote speeches and industry work.



Ton (A.M.J.) Koonen

Eindhoven University of Technology, The Netherlands

For sustained contributions in fiber optic broadband access and in-building networks, including multiwavelength packet routing and radio-over-fiber techniques.



Makoto Kuwata-Gonokami

University of Tokyo, Japan

For contributions to laser spectroscopy and photon science including nonlinear spectroscopy of semiconductors, high density phenomena, cold atoms and microcavity structures.



Edmund Y. Lam

University of Hong Kong, Hong Kong

For significant and sustained contributions to computational optics and imaging, in particular the development of image reconstruction algorithms for various applications.



Alfred Leitenstorfer

University of Konstanz, Germany

For pioneering ultrabroadband optical technologies and applying them to study fundamental questions in condensed matter.



Xuelong Li

Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, China

For achievements in image and video processing, pattern recognition and imaging.



Christoph Lienau

University of Oldenburg, Germany

For outstanding contributions to the field of ultrafast nano-optics, near-field optics and plasmonics.



Yongfeng Lu

University of Nebraska Lincoln, U.S.A.

For outstanding contributions in laser materials processing and characterization at micro- and nano-scales.



Andrey B. Matsko

OEwaves Inc., U.S.A.

For seminal contributions to the science and technology of resonant nonlinear systems.



Alastair McAulay

Lehigh University, U.S.A.

For pioneering research in optical networks, optical computing architectures, advanced photonic components, MEMs-based parallel switching and spatial light rebroadcasted optical computing cells.



Stephen J. Mihailov

National Research Council, Canada

For research and development of fiber gratings applied to communication and sensors.



Dumitru Mihalache

Horia Hulubei National Inst. of Physics and Nuclear Engineering, Romania

For significant theoretical contributions to nonlinear wave phenomena at single and multiple interfaces including surface solitons and spatiotemporal optical solitons.



Howard M. Milchberg

University of Maryland, U.S.A.

For fundamental discoveries in intense laser-matter interactions.



Guy Millot

Université Bourgogne, France

For numerous pioneering contributions in nonlinear optical physics including laser spectroscopy and ultrafast guided optics, optical solitons, modulation instability, nonlinear propagation dynamics in optical fibers, and their applications to telecommunications.



Hooman Mohseni

Northwestern University, U.S.A.

For significant contribution to the field of infrared photon detectors and related devices.



Shayan Mookherjea

University of California San Diego, U.S.A.

For pioneering contributions to the research and development of microresonator and coupled microresonator devices.



Keith A. Nelson

Massachusetts Institute of Technology, U.S.A.

For innovations in the development of impulsive stimulated Raman scattering and its applications to the ultrafast vibrational spectroscopy of phonons and intermolecular liquid dynamics.



Cun-Zheng Ning

Arizona State University, U.S.A.

For significant contributions to nanophotonics, optoelectronics and laser physics, especially semiconductor nanolasers and nanowire materials and their applications.



Peter Nordlander

Rice University, U.S.A.

For groundbreaking theoretical contributions to the field of plasmonics, providing understanding of interacting plasmonic systems, plasmonic coherent phenomena and quantum plasmonics.



Willie J. Padilla

Boston College, U.S.A.

For fundamental contributions to metamaterials, including demonstrations of negative refractive index, metamaterial optoelectronic control and perfect absorbers.



Krzysztof Patorski

Warsaw University of Technology, Poland

For outstanding research on the Fresnel diffraction field of periodic and quasi-periodic structures, grating interferometry, moiré fringe techniques and automatic fringe pattern analysis.



Stanley Pau

University of Arizona, U.S.A.

For research in micro- and nanofabrication and continuous contributions to the development of MEMS and integrated optical devices in telecommunication and sensing applications.



Brian W. Pogue

Dartmouth College, U.S.A.

For pioneering contributions to biophotonics—specifically in the areas of photodynamic therapy, diffuse optical tomography and spectroscopy—and fluorescence molecular imaging.



Markus Pollnau

University of Twente, Netherlands

For seminal contributions to rare-earth-ion spectroscopy and highly efficient dielectric waveguide amplifiers and lasers.



Alexander Popov

University of Wisconsin-Stevens Point, U.S.A.

For seminal contributions to nonlinear optics, including tailored transparency, lasing without inversion and foundations of nonlinear wave interactions in metamaterials.



Jianan Y. Qu

Hong Kong University of Science and Technology, Hong Kong

For pioneering contributions to the development of label-free noninvasive spectroscopy and imaging technology for life science research and medical diagnosis.



Azizur B. M. Rahman

City University London, United Kingdom

For significant contributions to the development of finite element-based numerical approaches for design and optimization of numerous photonic devices.



Stephen Ralph

Georgia Institute of Technology, U.S.A.

For contributions in advancing ultra-high-bit-rate optical communications devices and systems, especially in the areas of multimode fiber and 100 Gb/s optical networking technologies.



Markus B. Raschke

University of Colorado, U.S.A.

For pioneering developments of novel optical scanning probe techniques, including linear and nonlinear and ultrafast near-field optics and control of the light-matter interaction with plasmonic optical antennas.



Gregory Raybon

Alcatel-Lucent Bell Labs, U.S.A.

For pioneering contributions to high-speed optical transmission systems and technologies.



Monika Ritsch-Marte

Innsbruck Medical University, Austria

For innovative contributions to using spatial light modulators for microscopy and optical trapping, establishing techniques which include spiral phase contrast and wide-field CARS imaging and trapping of motile micro-organisms.



Sukesh Roy

Spectral Energies LLC, U.S.A.

For pioneering development and application of advanced optical combustion diagnostics, especially those based on ultrafast lasers, and for tireless continuing service to OSA.



David D. Sampson

University of Western Australia, Australia

For exceptional contributions to the development and applications of waveguide optics for in situ biomedical imaging.



Jasbinder Sanghera

U.S. Naval Research Laboratory, U.S.A.

For contributions to research, development, and commercialization of mid-infrared materials and devices.



Peter G. Schunemann

BAE Systems, U.S.A.

For seminal contributions to the development and optimization of nonlinear optical materials for mid-infrared frequency conversion devices and applications.



David Shepherd

University of Southampton, United Kingdom

For contributions to the development of solid-state lasers in guided-wave geometries.



Bruce Smith

Rochester Institute of Technology, U.S.A.

For significant contributions to optical nanolithography research and for the education of optical engineers in fields of micro- and nano-technology.



David R. Smith

Duke University, U.S.A.

For first experimental demonstration of negative refractive index; introduction of transformation optics and first demonstration of electromagnetic cloaking; pioneering work in the design, analysis, and characterization of metamaterials and plasmonic media.



Peter Smowton

Cardiff University, United Kingdom

For the development of characterisation techniques and understanding the physics of quantum-confined light-emitting devices, particularly quantum dot lasers.



Franky So

University of Florida, U.S.A.

For contributions to the development of organic light emitting diodes and organic photovoltaics.



Ioannis Tomkos

Athens Information Technology Center, Greece

For outstanding scientific contributions to the field of transparent optical networking.



Mariano Troccoli

AdTech Optics, U.S.A.

For pioneering commercial development of quantum cascade laser technology.

Upcoming Call for Papers Deadlines



Ruikang K. Wang

University of Washington, U.S.A.

For significant contributions to biomedical optics, including innovations in 3D imaging of microvasculature and biomechanical properties and for outstanding contributions to OSA.



Warren S. Warren

Duke University, U.S.A.

For the development of new pulse shaping and nonlinear optical techniques and their application to noninvasive and nondestructive molecular and biomolecular imaging.



Alice E. White

Alcatel-Lucent Bell Labs., U.S.A.

For developing advanced nanofabrication techniques and applying them to integrated electronics and photonics to enable next-generation lightwave devices.



Michael Wraback

U.S. Army Research Laboratories, U.S.A.

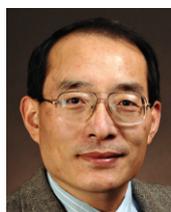
For outstanding contributions to the understanding of carrier dynamics in compound semiconductors using innovative optical characterization techniques.



Tiejun J. Xia

Verizon Communications, U.S.A.

For significant contributions to high-speed optical transport network technology and architecture development.



Yong-Hang Zhang

Arizona State University, U.S.A.

For sustained contributions to semiconductor optoelectronics.

Optical Interference Coatings (OIC)

OSA Topical Meeting

16–21 June 2013

Whistler, British Columbia, Canada

Submission Deadline:

27 February 2013, 12:00 EST (17:00 GMT)

www.osa.org/oic



Imaging and Applied Optics

OSA Optics & Photonics
Congress

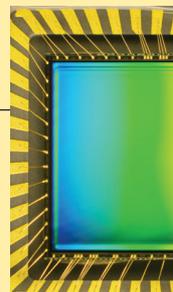
23–27 June 2013

Arlington, Virginia, USA

Submission Deadline:

6 March 2013, 12:00 EST (17:00 GMT)

www.osa.org/Imaging_Congress



7 COLLOCATED TOPICAL MEETINGS

- ▶ Adaptive Optics: Methods, Analysis and Applications (AO)
- ▶ Applied Industrial Optics: Spectroscopy, Imaging and Metrology (AIO)
- ▶ Computational Optical Sensing and Imaging (COSI)
- ▶ Fourier Transform Spectroscopy (FTS)
- ▶ Imaging Systems and Applications (IS)
- ▶ Propagation through and Characterization of Distributed Volume Turbulence (pcDVT)
- ▶ Quantitative Medical Imaging (QMI)

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