OSA is pleased to announce the new Fellow Members for 2015. From among 151 candidates, 76 OSA members were elected for their significant contributions to the advancement of optics and photonics, as confirmed by the Board of Directors at its meeting in October 2014.

The society appreciates the efforts of the many nominators and of the members of the Fellow Members Committee who reviewed all of the nominations. Chaired by Timothy J. Carrig, the committee included Juan Campos, Katherine Hall, Hiromasa Ito, Fredrik Laurell, Lenore McMackin, Alan C. Nilsson, Sergei K. Turitsyn, Peter J. Winzer, Xiaocong Larry Yuan, Halina Rubinsztein-Dunlop and A. Catrina Coleman.

Nominations for OSA’s 2016 class of Fellows are due by 15 June 2015. For more information, contact the OSA Awards Office (awards@osa.org; +1 202.416.1960) or visit www.osa.org/awards.

Peter E. Andersen  
Danmarks Tekniske Universitet, Denmark  
For contributions in light-tissue interactions specific to optical coherence tomography, including new laser diagnostic technology for biophotonic imaging.
Adela Ben-Yakar  
University of Texas at Austin, USA  
For original and innovative contributions in biomedical optics and laser therapeutics, especially in ultrafast laser microsurgery, deep-tissue-imaging endomicroscopy, plasmonic surgery and imaging with translational applications of these methods in biology, medicine and surgery.

Alexandra Boltasseva  
Purdue University, USA  
For seminal contributions to nanophotonics and new plasmonic materials.

Gisele Bennett  
Georgia Tech Research Institute, USA  
For technical innovation in the use of optical imaging and for research leadership.
Robert P. Breault
Breault Research Organization Inc., USA
For pioneering leadership in the formation of global optics industry clusters.

Liang Dong
Clemson University, USA
For pioneering contributions to specialty optical fiber design, materials and fabrication.

Giulio Cerullo
Politecnico di Milano, Italy
For pioneering work on few-optical-cycle laser sources, for seminal achievements in ultrafast spectroscopy of organics, and for service to the optics community.

Gabriella Cincotti
Università degli Studi Roma Tre, Italy
For the design and application of passive waveguide-based optical devices for advanced optical fiber communications.

Paolo De Natale
Istituto Nazionale di Ottica–CNR, Italy
For pioneering contributions to the study and development of laser-based devices and techniques for frequency metrology, particularly for atomic and molecular measurements across the infrared and THz spectral regions.

Christophe Dorrer
University of Rochester, USA
For the invention of methods and devices for the control and characterization of ultrafast optical pulses, with significant impact across a wide range of applications, from telecommunications to high-energy lasers.

Alberto Bramati
Université Pierre et Marie Curie, France
For outstanding contributions to the field of quantum optics and quantum fluid properties of exciton-polaritons in microcavity semiconductors, with the demonstration of squeezing, superfluid flow, solitons and quantized vortices.

P. Scott Carney
University of Illinois at Urbana-Champaign, USA
For fundamental advances in optical coherence theory and the application of statistical optics and inverse problems in near-field microscopy, coherence tomography and spectroscopy.

Rémi Carminati
Institut Langevin, ESPCI Paris Tech, France
For pioneering work on the theory of near-field optics and near-field thermal radiation, and for his many contributions to the field of light scattering in complex media.

Christophe Dorrer
University of Rochester, USA
For the invention of methods and devices for the control and characterization of ultrafast optical pulses, with significant impact across a wide range of applications, from telecommunications to high-energy lasers.

Alberto Bramati
Université Pierre et Marie Curie, France
For outstanding contributions to the field of quantum optics and quantum fluid properties of exciton-polaritons in microcavity semiconductors, with the demonstration of squeezing, superfluid flow, solitons and quantized vortices.
Frank J. Effenberger  
Huawei Technologies, USA  
For outstanding and sustained contributions to the research and development of broadband optical access networks, particularly passive optical networks, and the standardization of optical access technologies.

Jason Matthew Eichenholz  
Open Photonics, USA  
For achievements and leadership across a broad spectrum of projects in supporting open innovation, entrepreneurship, commercialization, technology and strategic developments for multiple corporations, and for excellence in leadership at OSA.

Carlos Ferreira  
Universitat de Valencia, Spain  
For significant scientific contributions and achievements in the fields of optical pattern recognition, application of anamorphic systems in optical processing and resolution in optical systems.

Mette Gaarde  
Louisiana State University, USA  
For outstanding experimentally relevant research focused on the production and application of ultrafast extreme ultraviolet radiation sources that exploits high-performance computing for the solutions of the time-dependent Schrödinger equation and Maxwell's wave equation.

Sarath D. Gunapala  
NASA Jet Propulsion Laboratory, USA  
For contributions to the development of quantum-structure-based infrared detectors and focal plane arrays.

Richard Hammond  
University of Carolina at Chapel Hill, USA  
For outstanding technical leadership in establishing major research programs in optical metamaterials, light filamentation, and attosecond science and for pioneering scientific contributions to the fields of radiation reaction, quantum and nonlinear optics.

Jean-Jacques Greffet  
Institut d’Optique, France  
For theoretical and experimental work on the role of surface waves in radiative heat transfer at nanoscale and emission of radiation, including achievements of large spatial coherence in thermal radiation leading to a new class of radiation emitters.

Dean R. Evans  
U.S. Air Force Research Laboratory, USA  
For original contributions in the areas of engineered photorefractive materials and harvested stressed ferroelectric nanoparticles.

Aaron R. Hawkins  
Brigham Young University, USA  
For developments in optical communications photodiodes and receivers, specifically wafer-fused photodiodes, and for contributions in the field of optofluidics, especially hollow-core waveguide-based analysis platforms.
L. Michael Hayden  
*University of Maryland Baltimore County, USA*  
For pioneering contributions to the development of electro-optic devices for the generation of terahertz waves.

John Charles Howell  
*University of Rochester, USA*  
For innovative leadership in experimental research for quantifying information content of multidimensional classical and quantum states.

Jeffrey H. Hunt  
*The Boeing Company, USA*  
For novel applications of nonlinear optical science to interfacial industrial diagnostics, development of advanced and frequency-agile laser sources, manufacturing metrology, trans-spectral detection including imaging and communications, and information assurance technologies.

Clemens F. Kaminski  
*University of Cambridge, United Kingdom*  
For pioneering work in the development of optical methods for quantifying the kinetics of reactions in chemical and biological systems.

Inuk Kang  
*LGS Innovations, LLC, USA*  
For ultrafast measurements of optical processes, properties and pulses, and demonstrations of integrated optical devices for optical communication systems with advanced modulation formats.

Kazuro Kikuchi  
*University of Tokyo, Japan*  
For pioneering contributions to coherent optical fiber communications including characterizations of the phase noise of semiconductor lasers, analyses of nonlinear transmission characteristics of optical fibers, and the proposal of digital coherent optical communication systems.

Hiroo Kinoshita  
*University of Hyogo, Japan*  
For pioneering contributions to the development of extreme-ultraviolet (EUV) lithography, from the very first publication, the first EUV demonstration experiments, and continued significant contributions through his laboratory for students and industry visitors at Hyogo University.

Keisuke Kojima  
*Mitsubishi Electric Research Laboratories, USA*  
For outstanding contributions in semiconductor lasers, in particular high-speed uncooled Fabry-Perot and distributed-feedback (DFB) lasers for optical access and data communications, and narrow-linewidth DFB lasers for coherent optical communications.

Junichiro Kono  
*Rice University, USA*  
For pioneering contributions to fundamental optical studies of nanostructures, including carbon nanotubes and semiconductor heterostructures, and their optoelectronic device applications.
Todd D. Krauss  
*University of Rochester, USA*  
For major contributions to the measurement and understanding of the spectroscopy and excited-state relaxation dynamics in semiconductor nanocrystals and carbon nanotubes at both the ensemble and single-particle levels.

Sophie La Rochelle  
*Université Laval, Canada*  
For contributions to optical communications by proposing innovative fiber optic components such as superstructured fiber Bragg gratings for chromatic dispersion equalizers, multiwavelength fiber lasers and optical code-division multiplexing.

Ruxin Li  
*Shanghai Institute of Optics and Fine Mechanics, China*  
For his outstanding contribution in the development of ultra-high-intensity femtosecond lasers, laser wake-field acceleration, high-order harmonic generation and filamentation nonlinear optics.

Marko Lončar  
*Harvard University, USA*  
For seminal contributions to diamond nanophotonics, nanoscale optomechanics and photonic crystal devices.

Sang Bae Lee  
*Korea Institute of Science & Technology, Korea*  
For significant contributions to the development of optical fiber devices, including fiber gratings and fiber lasers for their applications to optical communications and fiber sensors.

Sophie La Rochelle  
*Université Laval, Canada*  
For contributions to optical communications by proposing innovative fiber optic components such as superstructured fiber Bragg gratings for chromatic dispersion equalizers, multiwavelength fiber lasers and optical code-division multiplexing.

Qingming Luo  
*Huazhong University of Science and Technology, China*  
For pioneering contribution in optical neuroimaging and applications, including functional imaging of human brain activity, laser speckle imaging of cerebral blood flow and blood vessels, and mapping brain-wide neuronal networks.

Alexander I. Lvovsky  
*University of Calgary, Canada*  
For pioneering contributions to the technology of preparation, manipulation, characterization and storage of quantum states of light for applications in quantum information processing and communication.

Hans-Peter Loock  
*Queen’s University, Canada*  
For innovative uses and development of fiber optic devices in chemical sensing and detection.

Qingming Luo  
*Huazhong University of Science and Technology, China*  
For pioneering contribution in optical neuroimaging and applications, including functional imaging of human brain activity, laser speckle imaging of cerebral blood flow and blood vessels, and mapping brain-wide neuronal networks.

Dan M. Marom  
*Hebrew University, Israel*  
For innovations in optical information processing of spectrally dispersed light, leading to the invention of the wavelength-selective switch, now a fundamental building block of optical networks.
R.J. Dwayne Miller
Max Planck Institute for the Structure and Dynamics of Matter, Germany
For his groundbreaking development of ultrabright femtosecond electron sources for probing atomic motions on the primary timescales governing chemistry.

Juan Carlos Miñano
Universidad Politécnica de Madrid, Spain
For the discovery of exceptional new design methods and devices in both nonimaging and imaging optics over more than three decades, with special emphasis in freeform-surface design.

Kaoru Minoshima
The University of Electro-Communications, Japan
For seminal contributions to advanced research on fundamental science and applied technology in precision metrology using ultrafast optics and optical frequency combs.

Tanya Monro
University of South Australia, Australia
For scientific contributions of international significance to optical glass materials and fibers, photonics and optical physics, most notably in nanophotonics for nonlinear optics and sensing.

Allard P. Mosk
University of Twente, The Netherlands
For pioneering the development of wave-front-shaping methods to control light propagation through scattering media, thereby opening up new perspectives on optical imaging and focusing through strongly scattering materials.

William J. Munro
NTT Basic Research Labs, Japan
For achievements in optics and photonics, as a key bridge between academia and industry in the optical quantum information field.

Moshe Nazarathy
Technion, Israel Institute of Technology, Israel
For inventing the time-lens concept in ultrafast optics, for technology and commercial development of broadband linearized analog optical transmission, and more recently for contributions to energy-efficient signal processing for coherent photonic communication.

Franco Nori
RIKEN, Japan, and the University of Michigan, USA
For fundamental contributions to quantum information science and optics, including circuit quantum electrodynamics, and the interface between quantum optics and quantum circuits.

Malini Olivo
Singapore Bioimaging Consortium, A*STAR, Singapore, and NUI Galway, Ireland
For pioneering contribution in clinical photodiagnostics in the area of clinical spectroscopy and imaging in early cancer detection and phototherapeutics of cancer.
Michael S. Patterson  
McMaster University, Canada  
For fundamental contributions to the theoretical understanding and innovative application of light-tissue interactions in diagnosis and therapy.

Viktor A. Podolskiy  
University of Massachusetts Lowell, USA  
For pioneering scientific contributions to the fields of strongly anisotropic metamaterials, plasmonics and the development of fundamental understanding of nonlocal effects in optical nanostructures.

Thomas Pertsch  
Friedrich-Schiller-Universität Jena, Germany  
For groundbreaking contributions to spatio-temporal nonlinear dynamics in discrete optics, for the observation of light bullets, and for seminal contributions to metamaterial science and nanophotonics.

Ulf Peschel  
Friedrich-Schiller-Universität Jena, Germany  
For seminal contributions to the investigation of conservative and dissipative optical solitons and of the field dynamics in photonic lattices and PT-symmetric systems.

Gabriel Popescu  
University of Illinois at Urbana-Champaign, USA  
For novel quantitative nanoscale phase imaging of cells and tissues.

David Howard Reitze  
California Institute of Technology, USA  
For significant contributions to the fields of ultrafast optics, spectroscopy, and gravitational-wave interferometry as well as for overall leadership of LIGO.

Yunjiang Rao  
University of Electronic Science and Technology of China, China  
For significant and sustained contributions to optical fiber sensors and their applications, and for outstanding leadership in promoting fiber optics in China.

Rajeev Jagga Ram  
Massachusetts Institute of Technology, USA  
For fundamental investigation of semiconductor laser sources and the integration of photonics with CMOS.

Roland Ryf  
Bell Labs, Alcatel-Lucent, USA  
For multiple contributions to optical switching and multiplexing technology including MEMS and liquid-crystal-on-silicon subsystems and spatially multiplexed transmission systems.
Brian Matthew Salzberg
University of Pennsylvania, USA
For development of optical methods in cell physiology and neuroscience, including the discovery of voltage-sensitive dyes and calcium indicator dyes, and functional imaging using these probes.

Vahid Sandoghdar
Max Planck Institute for the Science of Light, Germany
For pioneering work in the field of nano-quantum-optics through the elegant combination of concepts from quantum optics, single-molecule spectroscopy, scanning probe microscopy and plasmonics.

Konstantin V. Sokolov
University of Texas M. D. Anderson Cancer Center, USA
For key contributions to the development and applications of plasmonic nanoparticles for imaging and therapy in biomedicine.

Regina Souflì
Lawrence Livermore National Laboratory, USA
For pioneering contributions to the development and characterization of extreme ultraviolet, X-ray and gamma-ray optics.

Vahid Sandoghdar
Max Planck Institute for the Science of Light, Germany
For pioneering work in the field of nano-quantum-optics through the elegant combination of concepts from quantum optics, single-molecule spectroscopy, scanning probe microscopy and plasmonics.

Norbert Scherer
University of Chicago, USA
For discovery of plasmonic optical trapping of noble-metal nanoparticles, for development of methods for two- and three-dimensional optical trapping of anisotropic nanomaterials and for demonstrating “optical binding” in the Rayleigh regime.

Jun Tanida
Osaka University, Japan
For pioneering contributions to optical computing through outstanding research and sustained leadership for the creation of a new field of information photonics that merges optics, photonics and informatics.

Limin Tong
Zhejiang University, China
For seminal work in optical nanofibers and significant contributions to nanophotonics.

Michael Vasilyev
University of Texas at Arlington, USA
For pioneering experimental and theoretical contributions to multimode phase-sensitive optical parametric amplifiers, in fibers for noise-free amplification of communication signals and in crystals for noise-free amplification of images.

Guillaume Georges Vienne
Data Storage Institute, A*STAR, Singapore, and Nanyang Technological University, Singapore
For contributions to design, fabrication and characterization of special optical fibers, including rare-earth-doped fibers, photonic crystal fibers and microfibers, and to their applications.
Yongtian Wang
Beijing Institute of Technology, China
For significant contributions in both research and education in the fields of optical design and CAD, augmented reality and advanced 3-D display.

Michael Withford
Macquarie University, Australia
For pioneering work developing novel 3-D optical chips, and on translating scientific research to end-users in the industry and university sectors.

Chongjin Xie
Alibaba Group, USA
For discoveries and inventions in the area of polarization and nonlinear effects in fibers.

Changhuei Yang
California Institute of Technology, USA
For outstanding contributions to high-efficiency microscopy and phase-conjugation-based scattering reversal in tissues.

Michalis N. Zervas
University of Southampton, United Kingdom
For seminal contributions to the development of advanced optical fiber amplifier configurations, fiber distributed-feedback lasers, Bragg grating theory and devices, high-power fiber lasers and nonlinear fiber optics.

Weili Zhang
Oklahoma State University, USA
For outstanding contributions to terahertz subwavelength photonics, including plasmonics, metamaterials and invisibility cloaking, and their advancement in China.

Maciej Wojtkowski
Institute of Physics at Nicolaus Copernicus University, Poland
For large impact in the field of optical coherence tomography (OCT) with applications in ophthalmology, in particular spectral OCT, with improved speed and sensitivity over standard OCT method.

Xiaotian Steve Yao
General Photonics Corporation, USA
For the invention, development and commercialization of the opto-electronic oscillator and optical polarization devices and instruments.

Xiang Zhou
Google Inc., USA
For outstanding contributions to high-spectral-efficiency coherent optical transmission systems and technologies.