we hear that

OSA names recipients of awards, medals

The Optical Society of America has honored 17 scientists and engineers for their leadership, innovations, expertise, service, and research in the fields of optics and photonics. The awards and medals will be presented during an OSA meeting this September in San Jose, California, except for two that have already been distributed.

Receiving the Frederic Ives Medal/Jarus W. Quinn Endowment, the society's highest award, will be **Daniel Kleppner**, the Lester Wolfe Professor of Physics Emeritus at MIT and codirector of the MIT–Harvard University Center for Ultracold Atoms. Kleppner was selected "for sustained innovation, discovery and leadership in the interaction of radiation with atoms and for his service and general educational activities."

M. J. Soileau will be awarded the Esther Hoffman Beller Medal for his "distinguished and long-standing service to the optics education and research community—and specifically for establishing CREOL (the Center for Research and Education in Optics and Lasers) as a major optics center," the award selection committee wrote. Soileau is the vice president for research and professor of optics, electrical and computer engineering, and physics at the University of Central Florida in Orlando.

The Max Born Award will be handed to **Luigi Lugiato**, a professor at the University of Insubria in Italy. He will be honored "for pioneering theoretical contributions to the fields of optical bistability and instabilities, optical pattern formation, cavity solitons, squeezing and quantum imaging."

Stephen D. Fantone will be the recipient of this year's Distinguished Service Award for his "outstanding vision, leadership and service in setting the financial policies and procedures for the Society that provide financial stability and opportunity for the foreseeable future." He is the founder and president of Optikos Corp in Wakefield, Massachusetts, and has served as OSA's treasurer since 1996.

The Joseph Fraunhofer Award/Robert M. Burley Prize will be given to **J. Roger P. Angel** "for innovation in optical systems development, including large astronomical telescope and mirror technology, methods for observing extrasolar planets, fiber-fed spectroscopy, adaptive optics, and a possible optical solution for global warming." Angel is director of the Steward Observatory Mirror Laboratory and the Center for Astronomical Adaptive Optics, both at the University of Arizona in Tucson, and is also Regents Professor and professor of astronomy and optical sciences at the university.

Connie J. Chang-Hasnain will receive the Nick Holonyak Jr Award in recognition of her "contributions to control of diode lasers: vertical-cavity surface-emitting laser arrays, injection locking, and slow light." Chang-Hasnain is the John R. Whinnery Chair Professor of Electrical Engineering and Computer Sciences at the University of California, Berkeley, where she also serves as the chair of the nanoscale science and engineering graduate group and director of the Center for Optoelectronic Nanostructured Semiconductor Technologies.

The Edwin H. Land Medal, cosponsored with the Society for Imaging Science and Technology, will be handed to **Charles R. Munnerlyn** "for his pioneering science, engineering, and entrepreneurship in developing and promoting excimer laser surgery for the correction of vision, which has created a new industry and has given millions of people normal vision without glasses." Munnerlyn, now retired, is the founder of VISX Inc in Santa Clara, California.

Jonathan Tennyson will take home the Ellis R. Lippincott Award, cosponsored with the Coblentz Society and the Society for Applied Spectroscopy. Tennyson, Massey Professor of Physics and head of the physics and astronomy department at University College London, was chosen "for his contributions to theory and simulations of rotational-vibrational spectra of small molecules and applications for practical purposes."

The Adolph Lomb Medal will be presented to **Shanhui Fan** "for his fundamental work in nanophotonic structures." Fan is an assistant professor of electrical engineering at Stanford University.

J. Gary Eden will be given the C. E. K. Mees Medal "for seminal interdisciplinary contributions to ultraviolet lasers, photochemical vapor deposition, ultrafast spectroscopy and microplasma devices, and for strengthening international collaborations in these areas of optics and photonics." Eden is professor of electrical and computer engineering and director of the Laboratory for Optical Physics and Engineering at the University of Illinois at Urbana-Champaign.

The William F. Meggers Award will go to **Pierre Agostini**, a physics professor at Ohio State University. He is being honored "for leadership in the development of innovative experiments providing major insights into the dynamics of the nonlinear response of atoms and molecules submitted to strong infrared laser pulses."

Arpad A. Bergh will receive the OSA Leadership Award–New Focus/Bookham Prize "for his leadership role in establishing and leading the Optoelectronic Industries Development Association (OIDA) and making it the primary advocate for the optoelectronics industry in the US over the past 12 years." Bergh, now retired, was cofounder of OIDA and served as its president from 1994 to 2006.

Kenneth Chau, a PhD candidate in engineering physics at the University of Alberta, received the OSA–New Focus/Bookham Student Award in May at the CLEO/QELS meeting in Baltimore for his talk, "Magnetically Anisotropic Photon Transport." Chau wrote his paper under the guidance of Abdulhakem Y. Elezzabi, Canada research chair of the electrical and computer engineering department at the university.

James L. Fergason will be presented with the David Richardson Medal "for outstanding contributions to the understanding of the physics and optics of liquid crystals, and particularly for his pioneering contributions to liquid crystal display technology." He is the founder of Fergason Patent Properties LLC in Menlo Park, California.

The Charles Hard Townes Award will go to **Serge Haroche**, professor of quantum physics at the Collège de France in Paris, "for pioneering experiments in cavity quantum electrodynamics, starting with the observation of superradiance, leading to the two-photon maser, nondestructive measurements of photons, and decoherence of Schrödinger cats."

Emmanuel Desurvire received the John Tyndall Award, cosponsored with the Institute of Electrical and Electronics Engineers/Lasers and Electro-Optics Society, in March during the Optical Fiber Communication Conference and Exposition and the National Fiber Optic Engineers Conference 2007 in Anaheim, California. The senior director in the wavelength division multiplexing networks product group in Alcatel-Lucent's optics division, Desurvire was honored "for pioneering contributions to the physical and theoretical understanding of erbium-doped fiber amplifiers and to their early development."

The R. W. Wood Prize will go to **Bahram Jalali** "for the invention and demonstration of Raman lasing in silicon." Jalali is a professor of electrical engineering at UCLA.

NAS elects new members, foreign associates

The National Academy of Sciences has elected 72 new members and 18 foreign associates from 12 countries in recognition of their achievements in original research. Held in May in Washington, DC, the election brought the total number of active members to 2025 with foreign associates totaling 387.

Of the new members elected, 27 do physics-related work.

Mario H. Acuña, senior astrophysicist and project scientist at NASA's Goddard Space Flight Center in Greenbelt, Maryland

David A. Agard, investigator at Howard Hughes Medical Institute in Chevy Chase, Maryland, and professor in the department of biochemistry and biophysics at the University of California, San Francisco

Brian F. Atwater, geologist on the western earthquake hazards team of the US Geological Survey and affiliate professor in the department of Earth and space sciences at the University of Washington in Seattle

David D. Awschalom, professor of physics and of electrical and computer engineering in the physics department at UC Santa Barbara

Moungi G. Bawendi, professor of chemistry at MIT

Steven M. Block, professor of applied physical and biological sciences at Stanford University

Donald E. Canfield, professor of ecology at the Institute of Biology and director of the Nordic Center for Earth Evolution, both at the University of Southern Denmark in Odense

Noel Clark, professor in the physics department at the University of Colorado at Boulder

Bruce T. Draine, professor in the astrophysical sciences department at Princeton University

Kerry A. Emanuel, Breene M. Kerr Professor in the atmospheres, oceans, and climate program of the Earth, atmospheric, and planetary sciences department at MIT

Paul G. Falkowski, professor at the Institute of Marine and Coastal Sciences and geological sciences department at Rutgers University in New Brunswick, New Jersey

Michael D. Fayer, David Mulvane Ehrsam and Edward Curtis Franklin Professor of Chemistry at Stanford University

Graham Fleming, Melvin Calvin Distinguished Professor of Chemistry at UC Berkeley

Gerald Gabrielse, George Vasmer Leverett Professor of Physics at Harvard University

Allen M. Goldman, Institute of Technology Professor of Physics and head of the school of physics and astronomy at the University of Minnesota in Minneapolis

David Gottlieb, Ford Foundation Professor and professor of applied mathematics at Brown University in Providence, Rhode Island

William L. Johnson, Ruben and Donna Mettler Professor of Materials Science, Engineering, and Applied Science at Caltech

Albert J. Libchaber, physics professor at the Rockefeller University in New York City

Curtis T. McMullen, mathematics professor at Harvard University

Christopher Miller, investigator at Howard Hughes Medical Institute and biochemistry professor at Brandeis University in Waltham, Massachusetts

William E. Moerner, Harry S. Mosher Professor of Chemistry at Stanford University

M. Granger Morgan, university professor and head of the department of engineering and public policy at Carnegie Mellon University in Pittsburgh, Pennsylvania

Timothy J. Richmond, professor at the Institute for Molecular Biology and Biophysics, ETH Zürich, Switzerland

David N. Spergel, professor in the department of astrophysical sciences at Princeton University

Katepalli R. Sreenivasan, Glenn L. Martin Professor of Engineering and distinguished university professor at the University of Maryland, College Park

Clifford M. Will, James S. McDonnell Professor of Physics at Washington University in St. Louis, Missouri

Mark B. Wise, John A. McCone Professor of High Energy Physics at Caltech.

Of the foreign associates elected, five are involved in physics-related work.

Pierre Deligne, professor at the Institute for Advanced Study in Princeton, New Jersey (Belgium)

Sumio Iijima, professor in the department of materials science and engineering at Meijo University in Nagoya, Japan (Japan)

Aizhen Li, academic director of the State Key Laboratory of Functional Materials and Informatics at the Chinese Academy of Sciences' Shanghai Institute of Microsystem and Information Technology (People's Republic of China)

Simon D. M. White, director at the Max Planck Institute for Astrophysics in Garching, Germany (UK)

Ronald F. Woodman, executive president of the Geophysical Institute of Peru in Mayorazgo (Peru).

in brief

Former Alcatel-Lucent Bell Labs scientist **Tsuyoshi Kimura** has returned to Japan to accept a position at Osaka University as professor in the materials science division of the Graduate School of Engineering Science. Kimura, who had been a member of Bell Labs' technical staff from 2005 through March 2007, will focus his research on exploring new fundamental materials. He told PHYSICS TODAY he's delighted to be home. "I always wanted to come back to Japan finally and to work with young students," Kimura said.