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For Immediate Release

***IEEE Photonics Conference 2011 To Highlight
Breakthroughs In Lasers, LEDs, Optical Communications, Sensors, Displays
And Many Other Lightwave Technologies***

ARLINGTON, VA (August 30, 2011) -- The IEEE Photonics Conference 2011, previously known as the IEEE LEOS Annual Meeting, will offer more than 500 technical presentations by the world's leading scientists and engineers in the areas of lasers, optoelectronics, optical fiber networks and associated lightwave technologies, as well as other photonic applications. It will also feature compelling plenary talks on the industry's most important issues, weekend events aimed at students and young photonics professionals, and a manufacturer's exhibition.

Approximately 600 people from industry, academia and government will gather for the IEEE Photonics Conference 2011 (IPC-2011) at the Crystal Gateway Marriott hotel here from October 9-13. Presentations will span a broad range of topics at the leading edge of photonics-technology development, from advanced blue and green laser diodes to the brand new field of nuclear photonics . . . from how to reduce signal degradation in optical fiber communications to inexpensive components for 100-gigabit Ethernet . . . from new optical sensors to advanced 3D-visualization concepts for biomedical sensing . . . and many more.

Photonics conference attendees are involved with technologies and applications where quantum electronic devices involving light are key elements, including biophotonics, displays, photodetectors, sensors, imaging systems, integrated optics, optoelectronics, photovoltaics, interconnects, microwave and nanophotonic devices and systems, non-linear and ultrafast optics, optical fiber communications, planar waveguide technology, optoelectronic materials, and all types of lasers.

"IEEE Photonics Conference is a premier forum for photonics engineers, technologists and suppliers from around the world to come together and share the knowledge that will drive technical breakthroughs," said David Plant, IPC-2011 Program Chair and James McGill Professor in the Department of Electrical & Computer Engineering at McGill University. "The blend of topics and the level of detail in the papers to be presented at the IEEE Photonics Conference are both outstanding. The conference will provide attendees with the knowledge they need to advance the state-of-the-art in the use of light to address important challenges in communications, energy conservation, computing, medicine, sensing, displays, and other important areas."

Among the conference highlights are the following:

Plenary Sessions

There will be two plenary speakers on both Monday and Tuesday (Oct. 10-11) from 3:30 – 5:00 p.m., exploring critical photonics challenges and opportunities. They are:

- *What's Next in Solid State Lighting: Speculations on the Future Ecosystem* by Makarand “Chips” Chipalkatti, Sr. Director SSL & Emerging Market Initiatives, Osram Sylvania Inc.;
- *Graphene Photonics and Optoelectronics* by Andrea Ferrari, University of Cambridge;
- *Optical Networking Beyond WDM* by Peter Winzer, Bell Labs, Alcatel-Lucent
- *Enabling VCSEL Technology for “Green” Optical Interconnects in High-Performance Computers and Data Centers* by Akihiko Kasukawa, Photonic Device Research Center, Furukawa Electric Co.

Panel Discussion

Tuesday, Oct. 11, will also feature a panel discussion from 5:30 – 7:30 p.m. on the topic, *Photonics in 2025: Some Glimpses into the Crystal Ball*. Organized by the 2011 Photonics Conference Program Chair David Plant and Photonics Society VP of Publications Rod Tucker, the panel session will address the question of which areas of photonics are generating exponential, Moore’s Law-like, performance gains over time. If there are exponential performance laws in photonics, what are they? If not, will there be areas that grow exponentially by 2025?

Special Symposia

IEEE Photonics Conference 2011 will feature Special Symposia at various times throughout the conference, on the following topics:

- Terabit Optical Ethernet
- Flexible Large Area Photonics
- Plasmonics in Detectors and Solar Cells
- On-Chip Light Sources for Photonic Integrated Circuits in Indium Phosphide and Silicon
- Innovative Optical Microresonators

Tutorial Speakers

Tutorial talks, which provide a broad view of a field starting from the basics, have been scheduled at various times throughout the conference, on these topics:

- *Optical Interconnects for High-Performance Computing* by Marc A. Taubenblatt, IBM T.J. Watson Research Center
- *Semiconductor Nanowires for Optoelectronic Device Applications* by Chennupati Jagadish, Australian National University
- *High-Power Diode Laser Reliability and Life Testing* by Paul O. Leisher, nLight Corporation
- *Photonic Generation of THz Signals* by Alwyn Seeds, University College London
- *Terabit/second OTDM Systems* by Leif Katsuo Oxenløwe, Technical University of Denmark
- *Avalanche Photodiodes* by Joseph Campbell, University of Virginia
- *Noise Properties and Information Capacities of Phase-(in)Sensitive Parametric Amplifiers* by C. J. McKinstrie, Bell Labs, Alcatel-Lucent

Sunday Events

The conference will feature several events on Sunday, Oct. 9 geared for students, graduates, recent entrants into the field and entrepreneurs followed by a reception. They are:

The IEEE Photonics Society GOLD Sessions (1:30 - 3:30 pm) -- The GOLD (Graduates Of The Last Decade) Session is an opportunity for graduate students and young professionals to interact with peers, take part in GOLD-organized activities, and establish connections in the photonics community. An invited talk will outline ways to develop academic or industrial careers after graduation. Poster presentations from graduate fellowship winners will give attendees an opportunity to mix with successful academic and industrial leaders.

The 7th Annual Careers in Research Forum (3:30 – 5:30pm) -- The charter of the Careers in Research Forum is to promote career awareness among students and young researchers in photonics and related fields. Attendees will have the opportunity to listen to several invited presentations from leading researchers in academia and industry highlighting milestones for achieving success.

- Benjamin Eggleton -- University of Sydney, Australia
- Leda Lunardi-- North Carolina State University
- Peter Winzer -- Bell Labs, Alcatel-Lucent
- Leif Katsuo Oxenløwe-- Technical University of Denmark
- A. Catrina Bryce -- University of Glasgow

Lessons in being a Photonics Entrepreneur (5:30 - 6:30 pm) -- This new session will feature invited presentations from a number of successful photonics entrepreneurs who will present their personal perspectives and insights on successfully commercializing photonics technology. Attendees will have a unique opportunity to hear first-hand about the dynamic world of photonics startups and to learn what it takes to be successful as an entrepreneur. Following the presentations, there will be a panel discussion to field questions from the audience. The presenters are:

- Alexei Glebov -- CEO and President, OptiGrate Corp.
- David F. Welch -- Founder, Executive VP, Chief Strategy Officer, Infinera Corp.
- Chris Koeppen -- Executive Director & General Manager, Aegis Lightwave, Inc.
- Steve Yao -- General Photonics Corp.

Recorded highlights of the IEEE Photonics Conference will be available: For the first time, the IEEE Photonics Conference will make available recorded highlights of selected presentations and sessions. Registered attendees of the conference will receive access to the digital recordings along with the conference proceedings and the recordings will be made available to non-attendees for a small fee. The selected recordings will be available for viewing online within 24 hours of the presentations. Details about the selected presentations, how to register, and complete pricing information will be available on the conference website registration page at: <http://www.photonicsconferences.org/PHOTONICS2011/registration.php>

For more information about IPC-2011 visit <http://www.photonicsconferences.org/PHOTONICS2011/index.php>

About the IEEE Photonics Society

The IEEE Photonics Society is one of the world's leading technical communities in the field of optoelectronics and photonic materials, devices, and systems, with members and activities engaged in research, development, design, manufacture, and applications, as well as with the various other activities necessary for the useful expansion of the field. As part of this dynamic worldwide community, more than 100,000 photonics professionals actively organize, contribute to, and participate in Society technical conferences, journals and other activities covering all aspects of the field. The IEEE Photonics Society has 75+ worldwide chapters and is part of IEEE, the world's largest technical professional association. The IEEE Photonics Society (IPS) is the new name for the former IEEE Lasers and Electro-Optics Society (LEOS). Learn more at <http://www.photonicsociety.org>.

About IEEE

IEEE, the world's largest technical professional association, is dedicated to advancing technology for the benefit of humanity. Through its highly cited publications, conferences, technology standards, and professional and educational activities, IEEE is the trusted voice on a wide variety of areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics. Learn more at <http://www.ieee.org>.