



THE FUTURE OF OPTICAL COMMUNICATIONS IS HERE

The World's Most Comprehensive Optical Communications Event

ABOUT OFC/NFOEC 2010

Exhibitors:	Approx. 500
Exhibit Space:	144,220 net square feet
Paper Submissions:	1,000+
Plenary Speakers:	Brian Herlihy, <i>President, SEACOM, Mauritius</i> Philippe Keryer, <i>Executive Vice President, President Carrier Product Group, Alcatel-Lucent, USA</i> Hideo Miyahara, <i>President, NICT, Japan</i>
Service Provider Summit	
Keynote Speaker:	Vijay Gill, <i>Senior Manager, Engineering and Architecture, Google, USA</i>
Sessions:	98
General Chairs:	John Cartledge, <i>Queen's Univ., Canada</i> Ekaterina Golovchenko, <i>Tyco Telecommunications, USA</i> Bert Basch, <i>Verizon, USA</i>
Technical Program	
Committee Chairs:	Scott Hamilton, <i>MIT Lincoln Lab, USA</i> Robert Jopson, <i>Bell Labs, Alcatel-Lucent, USA</i> Mehran Esfandiari, <i>AT&T, USA</i>
Sponsors:	IEEE/ComSoc, IEEE Photonics Society, OSA
Non-Financial	
Technical Sponsor:	Telcordia Technologies

OFC/NFOEC offers the optical communications community the only conference and exhibition that addresses every level of the field.

Milestones

1975 – The first OFC, known then as Optical Fiber Transmission (OFT), takes place in Williamsburg, Virginia.

1979 – OFT changes its name to Optical Fiber Communication (OFC).

1985 – The first National Fiber Optic Engineers Conference (NFOEC) is hosted by the newly formed RBOCs and what was then Bellcore.

1995 – The Commercial Technology program is introduced at OFC to provide a high-level take on industry developments.

2000 - 2002 – OFC is named *Tradeshaw Week's* fastest growing association show in North America.

2003 – OFC launches the *Service Provider Summit* and *OFC's Market Watch: Business and Technology™*.

2005 – OFC and NFOEC join forces to create the world's most comprehensive optical communications event.

2006 - 2009 – OFC/NFOEC continues to serve as industry bellwether, delivering ground-breaking programming and the latest in technological innovation.

2010 – OFC/NFOEC 2010 dedicated to Nobel Laureate Dr Charles Kao.

About the Sponsors

Institute of Electrical and Electronics Engineers/Communications Society (IEEE/ComSoc) – IEEE/ComSoc is a community comprised of a diverse group of industry professionals with a common interest in advancing all communications technologies. To that end, the Society sponsors publications, conferences, educational programs, local activities, and technical committees. Visit IEEE/ComSoc at www.comsoc.org.

IEEE Photonics Society (formerly LEOS) – The IEEE Photonics Society is the photonics branch of the world's largest professional science and engineering society. We are dedicated to promoting the photonics profession through the publication of the highest-impact journals in the field, the sponsorship of hundreds of high quality conferences around the world and the recognition of outstanding contributions in the field. Our activities span the full scope of science, technology and applications in the photonics field. For more information please visit: www.PhotonicsSociety.org

Optical Society (OSA) – Uniting more than 106,000 professionals from 134 countries, the Optical Society (OSA) brings together the global optics community through its programs and initiatives. Since 1916 OSA has worked to advance the common interests of the field, providing educational resources to the scientists, engineers and business leaders who work in the field by promoting the science of light and the advanced technologies made possible by optics and photonics. OSA publications, events, technical groups and programs foster optics knowledge and scientific collaboration among all those with an interest in optics and photonics. Visit www.osa.org.

OFC/NFOEC 2010 HIGHLIGHTS

Special Symposia

OFC/NFOEC 2010 to Be Dedicated to Nobel Prize Winner Charles Kao

OFC/NFOEC 2010 is being dedicated to Dr. Charles Kao, winner of the 2009 Nobel Prize for Physics. Dr. Kao will be honored at the OFC/NFOEC Plenary and Awards Session on March 23 with a special address by Tingye Li, retired AT&T research scientist and lightwave communications pioneer. A special symposium on Dr. Kao's life and the influence of his work will be held March 24. The OFC/NFOEC Exhibit Hall will feature a video tribute to Dr. Kao in its Video Theater. The video is an interview with Dr. Kao in which he discusses how he and his staff at STL and ITT Corporation researched the potential use of optical fibers as a communications technology and the challenges they faced. The video will be shown daily at noon, March 23 – 25.

Beyond Telecom and Datacom: Optical Interconnects for the Computercom Era

Performance gains in computer systems are increasingly achieved through interconnecting large numbers of parallel processor nodes. The resulting demands on communication bandwidth are extremely challenging, with the computer backplane or the telecom terminal backplane looming as one of the primary bottlenecks to information transfer. Within the next decade, Exaflop-scale machines will be produced that incorporate well over 1 million optical interconnects. Traditional Datacom transceiver technology is too costly, bulky, and power hungry to support this scale of deployment. A new class of optimized short-reach, low-power and low-cost optical interconnects must therefore be developed to enable next-generation large-scale systems. *Attend the Symposium Monday, March 22 from 1:30 p.m.–3:30 p.m*

On the Exhibit Floor

Fiber Optic Switch & Technology Center—New This Year! –Discover how advanced fiber connectivity and automated switching can help in provisioning, testing and monitoring various network architectures such as FTTx, and in facilitating network/backbone fiber recovery & restoration, troubleshooting, and fault location. Participate in demonstrations and discussions on the latest in fiber switching technologies such as colorless/directionless reconfigurable and sub-microsecond switching.

FTTx Resource Center – A combination demonstration and resource center, The Light Brigade's FTTx Center offers "one-stop shopping" for all things related to fiber to the home. The FTTx Resource Center will feature a live demonstration of an EPON triple-play network featuring independent VoIP, data and digital video streams interconnected over fiber via two optical network units (ONU) and an optical line terminal (OLT).

OSP/Fiber Technology Showcase – This on-floor theater will feature special presentations and demonstrations on topics of interest in today's fiber optic technology. Demonstrations will include an emergency restoration performed live on a working fiber-optic system. Participants include Boston Applied Technologies, Calient Networks, Fiberzone Networks, Ntest, Inc., Glimmerglass, Dayoptics, Optelian, CrossFiber and The Light Brigade.

POF Market Opportunities Presentation – The Plastic Optical Fiber Trade Organization (POFTO) will once again organize POF Day to review the year's new industry developments. POF Day is designed to show what POF is and can do, what are the key applications, new technology, and demonstrations on the ease of connectorization and handling. It is intended for those not familiar with POF technology and recent applications. Exhibits of POF products will also be on display at the POFTO Pavilion during the exhibit.

Also on the exhibit floor: Video Theater, New Product Introductions, Optical Switch Pavilion and the Asia and German Pavilions.

Special Programming

Market Watch: Business and Technology - This three-day series of panel sessions, held March 23-25, engage the applications and business communities in the field of optical communications. Presentations and panel discussions feature guest speakers from industry, research and investment communities. Topics include State of the Optical Industry, Benefits and Tradeoffs of Photonic Integration, Wireless Backhaul and Beyond, and Reinventing Carrier Networks for 100G.

Service Provider Summit - A dynamic program with topics and speakers of interest to CTOs, network architects, network designers and technologists within the service provider and carrier sector. The Service Provider Summit will be held on Wednesday, March 24 and will feature a keynote presentation from Vijay Gill, Senior Manager, Engineering and Architecture, Google, USA. Other speakers include executives from Ovum, Verizon, Equinix, AT&T Business Solutions, NTT, France Telecom Access Labs, and NeoPhotonics.

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