

CLEO/QELS:2010

Laser Science to Photonic Applications

Conference on Lasers and Electro-Optics The Quantum Electronics and Laser Science Conference

FACTS ABOUT CLEO/QELS: 2010

Exhibitors:	250 (25 percent international)
Paper Submissions:	2,200
Plenary Speakers:	“New Physics at Extreme Intensities of Light,” Gérard Mourou, <i>École Polytechnique, France</i> “A New Portal on the Universe—Laser Adaptive Optics,” Douglas Simons, <i>Gemini Observatory, USA</i> “Single Molecule Biophysics with Optical Tweezers,” Steven Block, <i>Stanford Univ., USA</i> “Manipulating Single Spins and Coherence in Semiconductors,” David Awschalom, <i>Univ. of California at Santa Barbara, USA</i>
Technical Sessions:	1,700
CLEO/QELS General Co-Chairs:	Claire Gmachl, <i>Princeton Univ., USA</i> and Konstantin Vodopyanov, <i>Stanford Univ., USA (CLEO)</i> ; Aephraim Steinberg, <i>Univ. of Toronto, Canada</i> and Hailin Wang, <i>Univ. of Oregon, USA (QELS)</i>
CLEO/QELS Program Co-Chairs:	Robert Fisher, <i>R. A. Fisher Associates, USA</i> and Paul Juodawlkis, <i>MIT Lincoln Lab, USA (CLEO)</i> ; Hui Cao, <i>Yale Univ., USA</i> and Hideo Mabuchi, <i>Stanford Univ., USA (OELS)</i>

CLEO/QELS is the premier event for the global scientific community for presenting the latest optics and photonics research and findings. More than 2,000 of the world’s foremost experts submit their works for presentation at CLEO/QELS each year. These submissions, combined with a rigorous peer-review process, result in a technical program that is unsurpassed in quality, depth and breadth.

CLEO/QELS features:

- World-renowned, peer-reviewed technical programming
- Dynamic keynote speakers
- Tutorials and special symposia
- The most innovative exhibit in the industry
- CLEO: Applications programming
- Short courses
- Receptions, poster sessions, networking and more

About the Sponsors

American Physical Society (APS) – The American Physical Society is the world’s largest professional body of physicists, representing over 43,000 physicists in academia and industry in the US and internationally. Visit APS at www.aps.org.

Institute of Electrical and Electronics Engineers Photonics Society – The Society’s fields of interest are photonics, lasers, optical devices, optical fibers and associated lightwave technologies, plus their applications in both systems and subsystems in which quantum electronic devices are key elements. For over 30 years IEEE LEOS -- now the IEEE Photonics Society -- has provided information exchange, education, and professional growth, through publishing journals, sponsoring conferences, and supporting local initiatives in both academia and industry.

The 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. OSA publications, events, technical groups and programs foster optics knowledge and scientific collaboration. For more information, visit www.osa.org.

CLEO/QELS: 2010 NOTEWORTHY MEETING PAPERS

At CLEO/QELS, researchers from around the world gather to present many of the latest breakthroughs on the science and engineering of photons and light waves.

- [Presentation CtuF3](#), "Structurally Reconfigurable Metamaterials at Terahertz Frequencies," by Hu Tao and Richard D. Averitt takes place Tuesday, May 18 at 8:30 a.m.
- [Presentation QFG1](#), "Laser Cooling of a Semiconductor Load to 165 K" by Denis Seletskiy et al is at 10:15 a.m. Friday, May 21.
- [Presentation CWJ1](#), "Single-Cycle Light Pulses from a Compact Er: Fiber Laser," by Guenther Krauss et al is at 4:45 p.m. Wednesday, May 19.

ADDITIONAL PROGRAMMING AND EVENTS

CLEO: Applications - The revamped CLEO: Applications program (formerly *PhAST*) focuses on the demonstration of components, systems, and emerging applications of lasers and electro-optical technology.

Market Focus - Part of the CLEO: Applications program, Market Focus sessions cover business and commercialized applications and are held on the exhibit floor.

Technology Transfer Showcase - The CLEO Technology Transfer Program offers attendees from industry a "one-stop" opportunity to learn about the latest optic and photonic technologies coming out of Universities and Government Labs.

LaserFest Events - CLEO joins the world in celebrating the 50th Anniversary of the Laser.

- **Special Symposium: Retrospectives on the Invention of the Laser**

Sunday, May 16, 3 –6 p.m.

Ballroom A1

On May 16—the actual date of the 50th anniversary of Theodore Maiman’s demonstration of the first working laser at Hughes Research Labs—Nobel laureates and early pioneers of the laser will offer retrospectives on the invention of the laser. Nobel Laureates Nico Bloembergen and Charles Townes will speak, along with Ted Maiman’s wife, Kathleen, and National Ignition Facility Director Ed Moses, among others.

- **LasersRock! Concert**

Tuesday, May 18, 8 –10:30 p.m.

San Jose Civic Auditorium

Join your colleagues for a night of musical entertainment at the LasersRock! Concert. Among the various musical acts, CLEO chair Bob Fisher and CLEO Plenary Speaker Steven Block will hit the stage to perform bluegrass songs together.

- **LaserFest Pavilion**

Tuesday, May 18 – Thursday, May 20

Exhibit Hall Floor, Booth #2241

The LaserFest Pavilion at CLEO: Expo features a laser innovation timeline display; “The Laser: A 50-Year Retrospective,” a showcase of more than 100 historic and innovative lasers from the past 50 years; youth education materials; ruby laser demos (Tuesday at 2:30, Wednesday at 11:30 and 2:30, Thursday at 2:30) and more.

CLEO/QELS: 2010 MEDIA RELATIONS CONTACTS

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