

# Agenda of Sessions — Sunday, 1 May

09:00–18:00	<b>SC200 Laser Remote Sensing</b>
10:00–13:00	<b>SC189 Quantum-Enhanced Technologies</b>
14:00–18:00	<b>SC164 THz Technology, SC198 Packaging of Optoelectronic Components, SC336 Green Photonics</b>

Unless otherwise noted, all activities and sessions take place at the Baltimore Convention Center.



# Agenda of Sessions — Monday, 2 May

	Room 318-320	Room 321-323	Room 324-326	Room 314	Room 315	Room 316	Room 317
08:00–09:45	JMA • Joint Symposium on Hybrid Quantum Nanoplasmonic Systems— Towards Active Nanoplasmonics I: Plasmon Nanolasers	JMB • Joint Symposium on Nano-Bio-Photonics I: Nanoscale Imaging and Sensing for Biomedical Applications	CMA • Efficiency Enhancement by Patterning	AMA • Fundamentals of Laser Processing for Adding, Modifying and Joining Materials	CMB • Ytterbium and Praseodymium Lasers	QMA • Novel Phenomena in Optics	CMC • Advanced Nonlinear Configurations
08:30–12:30	SC300 Silicon Photonics; SC302 MetaMaterials (09:30–12:00)						
09:45–10:15	Coffee Break, 300 Level Foyer						
10:15–12:00	JMD • Joint Symposium on Hybrid Quantum Nanoplasmonic Systems— Towards Active Nanoplasmonics II: Nanoplasmonic Systems	JME • Joint Symposium on Nano-Bio-Photonics II: Nanoparticles for Biomedical Diagnosis and Treatment	QMD • Spatiotemporal Dynamics and Discrete Systems	AMB • Laser Systems Development for Industrial Applications	CMH • Advanced Laser Techniques	CMI • Semiconductor Laser Resonators	CMJ • Nonlinear Mixing in Optical Fibers
12:00–13:30	Lunch Break						
13:30–17:30	SC149 Foundations of Nonlinear Optics; SC182 Biomedical Optical Diagnostics and Sensing; SC316 Organic Photonic Devices; NEW! SC361 Coherent Mid-Infrared Sources and Applications; NEW! SC362 Cavity Optomechanics: Fundamentals and Applications						
13:30–15:15	JMF • Joint Symposium on Hybrid Quantum Nanoplasmonic Systems— Towards Active Nanoplasmonics III: Single Photons and Plasmonic Antennas	CMO • Nanophotonic Integration	QMG • Attosecond Science	AMD • Laser Micro and Nano Structuring	CMP • Nd Lasers	CMQ • Quantum Cascade Lasers	CMR • Quasi-Phase Matched Nonlinear Optics
15:15–15:45	Coffee Break, 300 Level Foyer						
15:45–17:30	QMI • Integrated Nonlinear Devices	CMX • Plasmonic Devices	QMJ • High Field—Plasmas and Sources	JMG • Novel Optical Systems for Industrial Applications	CMY • 1.5-5µm Lasers	CMZ • Fiber Devices (ends at 17:00)	CMAA • Nonlinear Optics in Waveguides and Nanostructures
17:30–18:00	Break						
18:00–20:30	Plenary Session I and CLEO/Laser Focus World Innovation Award Presentation, Rooms III-IV						

## Key to Shading



CLEO: Science & Innovations Sessions



CLEO: QELS—Fundamental Science Sessions



CLEO: Applications & Technology Sessions



Joint Sessions



Short Courses






Room 327	Room 336	Room 337	Room 338	Room 339	Room 340	Room 341
CMD • Ultrafast Fiber Lasers	JMC • Environmental and Explosive Sensing by Quantum Cascade Lasers	QMB • High Field THz and Strong Coupling	QMC • High Harmonic Generation	CME • Nanowires—Novel Material and Device Concepts	CMF • Terahertz Quantum Cascade Lasers	CMG • Remote Optical Sensing
<b>SC300 Silicon Photonics; SC302 MetaMaterials (09:30–12:00)</b>						
<b>Coffee Break, 300 Level Foyer</b>						
CMK • Mode-Locked Fiber Lasers I	AMC • Paths to High Efficiency Photovoltaics	QME • Ultrafast Magnetism	QMF • Atoms and Molecules in Strong Fields	CML • 3D Nano Fabrication	CMM • THz Sources I	CMN • Biomedical and Nanoparticle Optical Sensing
<b>Lunch Break</b>						
<b>SC149 Foundations of Nonlinear Optics; SC182 Biomedical Optical Diagnostics and Sensing; SC316 Organic Photonic Devices; NEW! SC361 Coherent Mid-Infrared Sources and Applications; NEW! SC362 Cavity Optomechanics: Fundamentals and Applications</b>						
CMS • Mode-Locked Fiber Lasers II	CMT • Enhanced Efficiency Photovoltaics	QMH • Coherent Phenomena in Semiconductors	CMU • Nano-structured LEDs	CMV • Fabrication and Characterization of Nano Plasmonic Devices	CMW • THz Sources II	AME • Biomedical Therapeutic Applications
<b>Coffee Break, 300 Level Foyer</b>						
CMBB • High-Repetition Rate Pulsed Sources	CMCC • Nanostructures for Photovoltaics	QMK • Quantum Control in Solid-State Systems	CMDD • Optofluidic Cell, Particle and Fluid Manipulation	CMEE • Novel Nanofabrication Concepts	CMFF • THz Technology	AMF • Medical Applications of Fluorescence
<b>Break</b>						
<b>Plenary Session I and CLEO/Laser Focus World Innovation Award Presentation, Rooms III-IV</b>						

Unless otherwise noted, all activities and sessions take place at the Baltimore Convention Center.

# Agenda of Sessions — Tuesday, 3 May

	Room 318-320	Room 321-323	Room 324-326	Room 314	Room 315	Room 316	Room 317
08:00–09:45	QTuA • Frontier Applications of Plasmonics	QTuB • THz Generation and Pulse Diagnostics	QTuC • Ultrafast X-rays	JTuA • Joint Symposium on Quantum Communications I: Overview	CTuA • Ultrafast Noise and Phase-Locking	CTuB • Fiber Plasmons and Vortices (ends at 09:15)	JTuB • Joint Symposium on Semiconductor Ultraviolet LEDs and Lasers: Semiconductor Near-Ultraviolet Lasers and LEDs
08:30–12:30	SC154 Quantum Well Devices for Optics and Optoelectronics; SC157 Laser Beam Analysis, Propagation and Shaping Techniques; SC221 Nano-Photonics: Physics and Techniques; SC270 High Power Fiber Lasers and Amplifiers; SC334 The Art of Modeling Optical Systems						
09:45–11:00	Coffee Break and Unopposed Exhibit Only Time, <i>Exhibit Hall, 100 Level</i>						
09:45–17:00	Exhibit Hours, <i>Exhibit Halls E-G and Swing, 100 Level</i>						
10:30–12:30	MARKET FOCUS: Sensors & Lasers for Defense and Security, <i>Exhibit Hall F, 100 Level.</i>						
11:00–12:45	QTuE • Plasmonic Optical Devices	QTuF • Frequency Combs and Carrier-Envelope Phase Phenomena	CTuG • Semiconductor Nanolasers	JTuC • Joint Symposium on Quantum Communications II: Networks	CTuH • Ultrafast Measurement Techniques	CTuI • CW Fiber Sources	JTuD • Joint Symposium on Semiconductor Ultraviolet LEDs and Lasers: Semiconductor Mid-UV LEDs and Lasers
12:45–13:45	Power Lunch, <i>Exhibit Hall F, 100 Level</i>						
12:45–13:45	Lunch Break ( <i>concessions available in Exhibit Halls E and F, 100 Level</i> )						
13:45–15:30	QTuH • Plasmonic Field Enhancement and Concentration	CTuN • Micro and Nano-Photonic Modulators	QTuI • Complex Media	JTuF • Joint Symposium on Quantum Communications III: Future Directions	CTuO • Ultrafast Pulse Characterization	QTuJ • Quantum Measurement and Metrology	ATuD • Applications of Mid-UV LEDs
13:30–18:30	SC123 Erbium-Doped Fiber Amplifiers and Raman Fiber Amplifiers; SC155 Ultrashort Laser Pulse Measurement; SC301 Quantum Cascade Lasers: From Band Structure Engineering to Commercialization; SC335 Super-Resolution Optical Microscopy; SC353 An Overview of R&D Program Management						
14:00–16:00	MARKET FOCUS: Meeting Clinical Needs with Photonics, <i>Exhibit Hall F, 100 Level</i>						
15:30–16:00	Coffee Break, <i>Exhibit Halls E and F, 100 Level</i>						
16:00–17:45	QTuL • Exciton and Carrier Dynamics in Nanophotonic Systems	CTuS • Mid-Infrared and Nonlinear Devices	QTuM • Metatronics and Transformation Optics	QTuN • Ultrafast Structural Dynamics and Collective Phenomena	CTuT • Few-Cycle Infrared	QTuO • Spin Coherence	CTuU • Ultraviolet LEDs: Science and Innovation
18:00–19:30	JTul • Nanophotonics and Integration Joint Poster Session, <i>Ballroom Foyer</i>						
19:00–20:30	Conference Reception, <i>Ballroom, 400 Level</i>						

## Key to Shading

	CLEO: Science & Innovations Sessions		CLEO: QELS–Fundamental Science Sessions
	CLEO: Applications & Technology Sessions		Joint Sessions
			Short Courses

Room 327	Room 336	Room 337	Room 338	Room 339	Room 340	Room 341
CTuC • Mid Infrared Lasers	ATuA • Airborne and Space Lidar	QTuD • THz Metamaterials I	CTuD • Applications of Optical Parametric Processes	CTuE • High Laser Power Material and Devices	CTuF • Novel Optofluidic Applications and Optofluidic Energy	ATuB • Spectroscopic Technologies for Tissue Diagnostics
SC154 Quantum Well Devices for Optics and Optoelectronics; SC157 Laser Beam Analysis, Propagation and Shaping Techniques; SC221 Nano-Photonics: Physics and Techniques; SC270 High Power Fiber Lasers and Amplifiers; SC334 The Art of Modeling Optical Systems						
Coffee Break and Unopposed Exhibit Only Time, <i>Exhibit Hall, 100 Level</i>						
Exhibit Hours, <i>Exhibit Halls E-G and Swing, 100 Level</i>						
MARKET FOCUS: Sensors & Lasers for Defense and Security, <i>Exhibit Hall F, 100 Level</i>						
CTuJ • Petawatt Laser Technology	JTuE • Lasers in Environmental Sensing	QTuG • Invisibility and Absorbers	CTuK • Optical Parametric Oscillators	CTuL • Novel Nonlinear Materials and Device Concepts	CTuM • Optofluidic Detection and Imaging	ATuC • Coherence Domain Spectroscopy and Imaging
Power Lunch, <i>Exhibit Hall F, 100 Level</i>						
Lunch Break ( <i>concessions available in Exhibit Halls E and F, 100 Level</i> )						
CTuP • Novel Semiconductor Lasers	ATuE • Sensors and Imaging for Scientific and Security Applications	QTuK • Optical Processes in Graphene	CTuQ • Ultrafast and Broadband Nonlinear Optics	CTuR • Advances in III-V Lasers	JTuG • Photoacoustic Imaging and Microscopy	JTuH • Laser Direct Write Fabrication
SC123 Erbium-Doped Fiber Amplifiers and Raman Fiber Amplifiers; SC155 Ultrashort Laser Pulse Measurement; SC301 Quantum Cascade Lasers: From Band Structure Engineering to Commercialization; SC335 Super-Resolution Optical Microscopy; SC353 An Overview of R&D Program Management						
MARKET FOCUS: Meeting Clinical Needs with Photonics, <i>Exhibit Hall F, 100 Level</i>						
Coffee Break, <i>Exhibit Halls E and F, 100 Level</i>						
CTuV • Laser Locking and Beam Combining	ATuF • Lasers for Government National Science and Security Applications	CTuW • Nonlinear or Plasmonic Components	CTuX • Raman or Brillouin Conversion and Applications	CTuY • Organic Emitters and Absorbers	CTuZ • Optofluidic Photonic Structures and Devices	CTuAA • Nanostructured Materials and Devices
JTul • Nanophotonics and Integration Joint Poster Session, <i>Ballroom Foyer</i>						
Conference Reception, <i>Ballroom, 400 Level</i>						

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# Agenda of Sessions — Wednesday, 4 May

	Room 318-320	Room 321-323	Room 324-326	Room 314	Room 315	Room 316	Room 317
08:00–10:30	Plenary Session II and Awards Ceremony, Rooms III-IV						
10:00–17:00	Exhibit Hours, Exhibit Halls E-G and Swing, 100 Level						
10:30–12:00	Coffee Break and Unopposed Exhibit-Only Time, Exhibit Hall, 100 Level						
11:00–12:00	Lunch Break (concessions available in Exhibit Halls E and F, 100 Level)						
11:30–13:30	MARKET FOCUS: Energy Session, Exhibit Hall F, 100 Level						
12:00–13:30	JWA • Towards Applications Joint Poster Session, Exhibit Hall E, 100 Level						
13:30–15:15	QWA • Optical Waveguides and Quantum Information Science	CWA • THz Plasmonics	CWB • OCT, Tomography, and Sensing	CWC • Dynamical Microsystems	CWD • Symposium on Fiber Parametric Devices and Applications I: Telecom Applications	QWB • Quantum Computing and Metrology with Cold Matter	CWE • Laser Fabrication for Life Science Applications
14:30–16:30	MARKET FOCUS: Challenges of Laser Products and Markets, Exhibit Hall F, 100 Level						
15:15–16:45	Coffee Break and Unopposed Exhibit-Only Time, Exhibit Hall, 100 Level						
16:45–18:30	CWJ • Advanced Formats (ends at 18:15)	CWK • THz Metamaterials II	CWL • Optofluidic Biosensing and Biomolecular Analysis	CWM • Silicon Microresonators	CWN • Symposium on Fiber Parametric Devices and Applications II: Physics and Sources	QWF • Quantum Interface of Light and Matter	CWO • Advanced Ultrafast Laser Processing

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### Key to Shading



CLEO: Science & Innovations Sessions



CLEO: QELS-Fundamental Science Sessions



CLEO: Applications & Technology Sessions



Joint Sessions



Short Courses

Room 327	Room 336	Room 337	Room 338	Room 339	Room 340	Room 341
<b>Plenary Session II and Awards Ceremony, Rooms III-IV</b>						
<b>Exhibit Hours, Exhibit Halls E-G and Swing, 100 Level</b>						
<b>Coffee Break and Unopposed Exhibit-Only Time, Exhibit Hall, 100 Level</b>						
<b>Lunch Break (concessions available in Exhibit Halls E and F, 100 Level)</b>						
<b>MARKET FOCUS: Energy Session, Exhibit Hall F, 100 Level</b>						
<b>JWA • Towards Applications Joint Poster Session, Exhibit Hall E, 100 Level</b>						
<b>QWC • Emission Control with Nanooptics</b>	<b>CWF • Toward More Efficient Visible LEDs</b>	<b>CWG • High Intensity and Short Pulse</b>	<b>CWH • Optical Measurements and Waveform Characterization</b>	<b>CWI • Ultrafast Pulse Generation I</b>	<b>QWD • Strongly Correlated Electron Systems</b>	<b>QWE • Optomechanical Systems I</b>
<b>MARKET FOCUS: Challenges of Laser Products and Markets, Exhibit Hall F, 100 Level</b>						
<b>Coffee Break and Unopposed Exhibit-Only Time, Exhibit Hall, 100 Level</b>						
<b>QWG • Optomechanics and Optical Forces</b>	<b>AWA • Energy Efficient Lighting</b>	<b>CWP • Thin Disk and Waveguide Laser</b>	<b>CWQ • Astro-Combs and Source Calibration</b>	<b>CWR • Ultrafast Pulse Generation II</b>	<b>QWH • Dynamics in Nanowires, Rods and Tubes</b>	<b>QWI • Optomechanical Systems II</b>








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# Agenda of Sessions — Thursday, 5 May

	Room 318-320	Room 321-323	Room 324-326	Room 314	Room 315	Room 316	Room 317
08:00–09:45	QThA • Electro-Magnetic Metamaterials	CThA • High-Speed On-Chip Signal Processing	QThB • Symposium on The Zeno Effect in Optoelectronics and Quantum Optics I	CThB • Extreme Wavelength Comb Generation	CThC • Guided-Wave Optical Sensing	CThD • New Wavelength Fiber Lasers	CThE • THz QCLS
10:00–10:30	Coffee Break, <i>Exhibit Halls E and F, 100 Level</i>						
10:00–15:00	Exhibit Hall Hours, <i>Exhibit Halls E-G and Swing, 100 Level</i>						
10:30–12:15	QThF • Disordered Material	CThJ • Optomechanics I	QThG • Symposium on The Zeno Effect in Optoelectronics and Quantum Optics II (ends at 12:00)	CThK • CLEO Symposium on Broadband Spectroscopy: New Techniques and Sources I: Dual-Comb Heterodyne Spectroscopy	CThL • Fiber Based Sensors	CThM • Bandgap and Crystalline Fibers (ends at 12:00)	CThN • THz Waveguides
10:30–15:00	Technology Transfer Showcase (Panel Discussion and Tabletop Display), <i>Exhibit Hall F, 100 Level</i>						
12:15–13:00	Lunch (concessions available in Exhibit Halls E and F, 100 Level)						
13:00–14:30	JThB • Nonlinear and Quantum Science and Measurements Joint Poster Session, <i>Exhibit Hall E, 100 Level</i>						
14:30–16:15	QThK • Tunable and Fluid Metamaterials	CThQ • Nanophotonic Sensors	CThR • Novel Applications of Nonlinear Optics	CThS • CLEO Symposium on Broadband Spectroscopy: New Techniques and Sources II: Spectroscopic Experiments	CThT • Gas Phase Sensing I	CThU • Fiber Amplifiers and Lasers	CThV • THz Imaging
16:15–16:45	Coffee Break, <i>300 Level Lobby</i>						
16:45–18:30	QThP • Hyperbolic and Anisotropic Metamaterial (ends at 18:15)	CThZ • Novel Waveguides and Resonators	CThAA • Mode-Locked Solid State Lasers	CThBB • CLEO Symposium on Broadband Spectroscopy: New Techniques and Sources III: Sources (ends at 18:15)	CThCC • Gas Phase Sensing II	CThDD • Pulsed Fiber Lasers	CThEE • THz Spectroscopy
18:30–20:00	Dinner Break (on own)						
20:00–22:00	CLEO: 2011 Postdeadline Paper Sessions, <i>Rooms 316, 317 and 318-320</i>						

## Key to Shading

	CLEO: Science & Innovations Sessions		CLEO: QELS–Fundamental Science Sessions
	CLEO: Applications & Technology Sessions		Joint Sessions
			Short Courses



Room 327	Room 336	Room 337	Room 338	Room 339	Room 340	Room 341
QThC • Fundamentals of Nano-Optics and Plasmonics	CTHF • Nonlinear Microscopy	CThG • Mode-Locked Lasers	CThH • Coherent Systems	QThD • Discrete Optics and Periodic Structures	QThE • Single Photons: Sources and Detectors	CThI • Optical Signal Processing
<b>Coffee Break</b> , <i>Exhibit Halls E and F, 100 Level</i>						
<b>Exhibit Hall Hours</b> , <i>Exhibit Halls E-G and Swing, 100 Level</i>						
QThH • Nonlinear and Ultrafast Nanophotonics	JThA • Microscopic Imaging and Endoscopy		CThO • OFDM (ends at 12:00)	QThI • Optical Filamentation and Related Nonlinear Phenomena	QThJ • Quantum Storage and Frequency Entanglement	CThP • Silicon Optical Links
<b>Technology Transfer Showcase (Panel Discussion and Tabletop Display)</b> , <i>Exhibit Hall F, 100 Level</i>						
<b>Lunch</b> ( <i>concessions available in Exhibit Halls E and F, 100 Level</i> )						
<b>JThB • Nonlinear and Quantum Science and Measurements Joint Poster Session</b> , <i>Exhibit Hall E, 100 Level</i>						
QThL • Positioning, Coupling and Focusing in Nanophotonic Systems	CThW • Advances in Biological Microscopy	QThM • Quantum Optics in Cavities and Waveguides	CThX • Fiber Transmission	QThN • Quantum Photonics	QThO • Fundamental Topics in Quantum Science	CThY • Microwave Photonics
<b>Coffee Break</b> , <i>300 Level Lobby</i>						
QThQ • Plasmon Optics	CThFF • Filamentation	QThR • Quantum Optics with Quantum Dots	CThGG • Spatial Multiplexing and Crosstalk (ends at 18:15)	QThS • Linear and Nonlinear Wave Propagation	QThT • Quantum Communication and Multipartite Entanglement	CThHH • Waveguides and Passive Components
<b>Dinner Break</b> ( <i>on own</i> )						
<b>CLEO: 2011 Postdeadline Paper Sessions</b> , <i>Rooms 316, 317 and 318-320</i>						

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# Agenda of Sessions — Friday, 6 May

	Room 318-320	Room 321-323	Room 324-326	Room 314	Room 315	Room 316	Room 317
08:00–09:45	<b>QFA • Plasmonic Metamaterials</b>	<b>CFA • Optomechanics II</b>	<b>CFB • Integration on Silicon</b>	<b>CFC • Optical Frequency Standards and Signal Dissemination</b>	<b>CFD • High Speed Lasers</b>	<b>CFE • Beam Combining and Stabilization of Fiber Amplifiers</b>	<b>QFB • Plasmonics and Novel Structures</b>
09:45–10:15	<b>Coffee Break, 300 Level Foyer</b>						
10:15–12:00	<b>QFE • Active Plasmonics</b>	<b>CFI • Photonic Crystal Devices</b>	<b>CFJ • Optical Components</b>	<b>CFK • Optical Frequency Combs</b>	<b>CFL • Novel Semiconductor Laser Materials</b>	<b>CFM • Optical Fiber Measurement</b>	<b>QFF • Solitons and Nonlinear Waves</b>



## Key to Shading



CLEO: Science & Innovations Sessions



CLEO: QELS–Fundamental Science Sessions



CLEO: Applications & Technology Sessions



Joint Sessions



Short Courses

Room 327	Room 336	Room 337	Room 338	Room 339
QFC • Nanophotonic and Plasmonic Confinement	CFF • Novel Raman Sensing Techniques I	CFG • Ultrafast Pulse Shaping	CFH • Access Networks	QFD • Quantum Imaging and Phase Estimation
<i>Coffee Break, 300 Level Foyer</i>				
QFG • Single Photon Nano-Optics	CFN • Novel Raman Sensing Techniques II	CFO • Ultrafast Dynamics	CFP • Measurement and Processing (ends at 11:45)	QFH • Ion Traps and Nanomechanical Systems

# SAVE THE DATE

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