

Agenda of Sessions — Sunday, 6 May

09:00–12:00	SC 379 Silicon Photonic Devices and Applications; SC182 Biomedical Optical Diagnostics and Sensing; SC302 MetaMaterials <i>(locations will be provided at registration)</i>
09:00–17:00	SC200 Laser Remote Sensing <i>(location will be provided at registration)</i>
13:00–17:00	SC361 Coherent Mid-Infrared Sources and Applications; SC149 Foundations of Nonlinear Optics <i>(locations will be provided at registration)</i>
13:30–16:30	SC 376 Plasmonics <i>(location will be provided at registration)</i>
16:00–19:30	Anthony E. Siegman Memorial Symposium and Reception <i>Ballroom IV & V, Marriott Hotel</i>

Agenda

Key to Shading

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

Agenda of Sessions — Monday, 7 May

Agenda

	Room A1	Room A2	Room A3	Room A4	Room A5	Room A6	Room A7
08:00–10:00	CM1A • Detectors & Sources	CM1B • Ultrafast Mid-IR	QM1C • Transformation Optics	CM1D • Thin Disk and Pulsed High Power Lasers	QM1E • Nonlinear Optical Lattices	CM1F • Combustion and Chemical Reaction Diagnostics	QM1G • High Density, Electron-Hole Systems
08:30–12:30	SC165 Laser Diode-Pumped Solid-State Lasers <i>(location will be provided at registration)</i>						
09:00–12:00	SC153 Quasi-Phasematching; SC375 Applications of Mid-Infrared Quantum Cascade Lasers <i>(locations will be provided at registration)</i>						
10:00–10:30	Coffee Break, Concourse Level						
10:30–12:30	CM2A • Interconnects & Signal Processing	CM2B • All-optical Processing	QM2C • Optical Polaritons	CM2D • Laser Materials and Ceramics	QM2E • New Directions in Metamaterials	CM2F • Remote Optical Sensing	QM2G • Excitons in Semiconductors and Organic Materials
12:30–13:30	Lunch Break <i>(on your own)</i>						
13:00–17:00	SC338 Fiber-Based Parametric Devices; SC378 Introduction to Ultrafast Optics <i>(locations will be provided at registration)</i>						
13:30–16:30	SC147 Optical Fiber Communication Systems; SC221 Nano-Photonics: Physics and Techniques; SC335 Super-Resolution Optical Microscopy <i>(locations will be provided at registration)</i>						
13:30–15:30	CM3A • Silicon Photonic Integration	CM3B • Guided-Wave Sensing	QM3C • Diamond	CM3D • Cryogenic Lasers	QM3E • Novel Temporal Phenomena & Airy Beams	QM3F • Meta Interfaces and Surfaces I	QM3G • Coherent Phenomena and Control in Semiconductors
15:30–16:00	Coffee Break, Concourse Level						
16:00–18:00	CM4A • Silicon Photonics I	CM4B • Fiber-Based Sensing	QM4C • Continuous Variable Quantum Optics	CM4D • Petawatt Lasers Technologies	QM4E • Supercontinuum and Few-Cycle Phenomena	QM4F • Meta Interfaces and Surfaces II	QM4G • Strongly Correlated Electron Systems
18:30–20:00	Dine and Discover Event						

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Room A8	Room B2 & B3	Room C1 & C2	Room C3 & C4	Marriott San Jose Salon I & II	Marriott San Jose Salon III	Marriott San Jose Salon IV
QM1H • Spasers and Nanoemitters	CM1I • Quantum Dot Lasers ▶	CM1J • Nonlinear Optical Phenomena ▶	JM1K • Optomechanics ▶	CM1L • Terahertz Spectroscopic Applications & Technology	CM1M • Microresonators I	CM1N • Fiber I
SC165 Laser Diode-Pumped Solid-State Lasers <i>(location will be provided at registration)</i>						
SC153 Quasi-Phasematching; SC375 Applications of Mid-Infrared Quantum Cascade Lasers <i>(locations will be provided at registration)</i>						
Coffee Break, Concourse Level						
QM2H • Optical Quantum Devices	JM2I • Symposium on the 50th Anniversary of the Semiconductor Laser I ▶	CM2J • Ultrafast Sources ▶	QM2K • Plasmonic Waveguides & Circuits ▶	CM2L • Terahertz Time Domain Sources, Detectors, & Characterization	CM2M • Microresonators II	CM2N • Doped Fibers for Lasers
Lunch Break (on your own)						
SC338 Fiber-Based Parametric Devices; SC378 Introduction to Ultrafast Optics <i>(locations will be provided at registration)</i>						
SC147 Optical Fiber Communication Systems; SC221 Nano-Photonics: Physics and Techniques; SC335 Super-Resolution Optical Microscopy <i>(locations will be provided at registration)</i>						
QM3H • Novel Plasmonic Sensors	JM3I • Symposium on the 50th Anniversary of the Semiconductor Laser II ▶	CM3J • High Power Terahertz Sources & Applications ▶	CM3K • Filaments and Related Phenomena ▶	CM3L • Dynamics of Laser-Matter Interactions	CM3M • Waveguides and Passive Components	CM3N • Photonic Crystal Fibers
Coffee Break, Concourse Level						
QM4H • Plasmonic Nanoantennas	JM4I • Symposium on the 50th Anniversary of the Semiconductor Laser III ▶	CM4J • Terahertz Waveguides and Filters ▶	CM4K • Ultrafast Modification of Materials ▶	CM4L • Advances in Nano-fabrication for Photonics	CM4M • Couplers and Mode Converters	CM4N • Amplifiers
Dine and Discover Event						

Agenda



Agenda of Sessions — Tuesday, 8 May

Agenda

	Room A1	Room A2	Room A3	Room A4	Room A5	Room A6	Room A7
08:30–12:30	SC163 Optical Parametric Oscillators (location will be provided at registration)						
08:00–10:00	Plenary and Awards Session I, Civic Auditorium						
09:00–12:00	SC339 A Guide to Building an Optical Clock; SC377 Fundamentals of Lasers; SC362 Cavity Optomechanics (locations will be provided at registration)						
10:00–11:00	Coffee Break (10:00-10:30) and Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3						
10:00–17:00	Exhibit Open, Exhibit Halls 1, 2 and 3						
10:30–12:30	Market Focus Session I: Defense: Laser Interrogation for Standoff Detection of Hazardous Materials, Exhibit Hall 3						
11:00–13:00	CTu1A • Silicon Photonics II	CTu1B • Terahertz Narrowband Sources	QTu1C • Molecular Attosecond Dynamics	CTu1D • Laser Technology and Issues for High Average Power	QTu1E • Detectors I	QTu1F • Nonlinear Plasmonics and Nanophotonics	QTu1G • Active and Nonlocal Metamaterials
12:45–13:45	Power Lunch, Exhibit Hall 3						
13:00–14:00	Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3 (concessions available)						
13:00–17:00	SC270 High-Power Fiber Lasers and Amplifiers; SC271 Quantum Information (locations will be provided at registration)						
13:30–16:30	SC157 Laser Beam Analysis; SC352 Ultrafast Laser (locations will be provided at registration)						
14:00–16:00	Market Focus Session II: BioPhotonics: Femtosecond Lasers and the Future of Vision Correction, Exhibit Hall 3						
14:00–16:00	CTu2A • Microwave Photonics: Components	CTu2B • Terahertz QCLs & Solid State Devices	QTu2C • Quantum Control	CTu2D • 1.5 to 5µm Lasers	QTu2E • Theory	QTu2F • Plasmon-Emitter-Coupling	ATu2G • Instrumentation & Sensing
16:00–16:30	Coffee Break, Exhibit Halls 1, 2 and 3						
16:30–18:30	CTu3A • Microwave Photonics: Systems	CTu3B • Terahertz Imaging & Sensing	CTu3C • Ultra-intense Laser Technology for Next-Generation Sources	QTu3D • Cavity QED in Solid-State Systems	QTu3E • Detectors II	QTu3F • Terahertz Metamaterials	CTu3G • Broadband Pulse Synthesis
20:30–21:30	OSA Student Happy Hour, Firehouse No. 1, 69 N. San Pedro Street, San Jose, CA 95110						

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Room A8	Room B2 & B3	Room C1 & C2	Room C3 & C4	Marriott San Jose Salon I & II	Marriott San Jose Salon III	Marriott San Jose Salon IV
SC163 Optical Parametric Oscillators (location will be provided at registration)						
Plenary and Awards Session I, Civic Auditorium						
SC339 A Guide to Building an Optical Clock; SC377 Fundamentals of Lasers; SC362 Cavity Optomechanics (locations will be provided at registration)						
Coffee Break (10:00-10:30) and Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3						
Exhibit Open, Exhibit Halls 1, 2 and 3						
Market Focus Session I: Defense: Laser Interrogation for Standoff Detection of Hazardous Materials, Exhibit Hall 3						
QTu1H • Ultrafast THz Dynamics	CTu1I • Mode-Locked Fiber Lasers ▶	CTu1J • Laser Writing & Manipulation of Materials ▶	JTu1K • Symposium on Singular Light: Applications of Vortices, Orbital Angular Momentum, Bessel and Airy Beams I: Complex Light: Lasers & Sources ▶	CTu1L • Optofluidic Lasers and Devices	JTu1M • Graphene & Carbon Advanced Photonics Materials	CTu1N • Microcavity & Photonic Crystal Lasers
Power Lunch, Exhibit Hall 3						
Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3 (concessions available)						
SC270 High-Power Fiber Lasers and Amplifiers; SC271 Quantum Information (locations will be provided at registration)						
SC157 Laser Beam Analysis; SC352 Ultrafast Laser (locations will be provided at registration)						
Market Focus Session II: BioPhotonics: Femtosecond Lasers and the Future of Vision Correction, Exhibit Hall 3						
QTu2H • Femtosecond-to-Attosecond Interferometry and Spectroscopy	CTu2I • Hybrid Silicon Photonics ▶	CTu2J • Quantum Wells and Dots ▶	JTu2K • Symposium on Singular Light: Applications of Vortices, Orbital Angular Momentum, Bessel and Airy Beams II: Tweezers to Telecom ▶	CTu2L • Optofluidic Sensing and Control	CTu2M • Pulsed Lasers and Amplifiers	CTu2N • Diode Lasers
Coffee Break, Exhibit Halls 1, 2 and 3						
QTu3H • XUV and X-Ray Attosecond Sources and Applications	CTu3I • Silicon Photonics III ▶	CTu3J • Advanced Microscopy ▶	JTu3K • Symposium on Singular Light: Applications of Vortices, Orbital Angular Momentum, Bessel and Airy Beams III: Light with Singularities: Properties and Applications ▶	ATu3L • Laser Micro Processing	CTu3M • Pulsed and Ultrafast Lasers	CTu3N • Spectral, Temporal & Modal Control of Semiconductor Lasers
OSA Student Happy Hour, Firehouse No. 1, 69 N. San Pedro Street, San Jose, CA 95110						



Agenda of Sessions — Wednesday, 9 May

Agenda

	Room A1	Room A2	Room A3	Room A4	Room A5	Room A6	Room A7
08:00–10:00	Plenary and Awards Session II, <i>Civic Auditorium</i>						
10:00–17:00	Exhibits Open, <i>Exhibit Halls 1, 2 and 3</i>						
10:00–10:30	Coffee Break, <i>Exhibit Halls 1, 2 and 3</i>						
10:30–12:30	CW1A • Nonlinear Optics in Nanophotonic Structures I	QW1B • Plasmonic Oligomers	JW1C • Symposium on Space Optical Systems: Opportunities and Challenges I	CW1D • Pulse Synthesis	QW1E • Novel Phenomena	QW1F • Strong-Field and Short-Wavelength Interactions	CW1G • Bioreactors and Biosensing
11:00–13:00	Market Focus Session III: Energy/Environment: Development of Cost Competitive Solar Energy, <i>Exhibit Hall 3</i>						
12:00–13:30	VIP Industry Leaders Networking Event: Connecting Corporate Executives, Young Professionals and Students, <i>Exhibit Hall 3</i>						
12:30–13:30	Unopposed Exhibit Only Time, <i>Exhibit Halls 1, 2 and 3 (concessions available)</i>						
13:00–15:00	JW2A • Poster Session I, <i>Exhibit Hall 3</i>						
14:30–16:30	Market Focus Session IV: Industrial: Next Generation Materials Processing Applications in the Automobile, Heavy Industry and Machine Tool Marketplace, <i>Exhibit Hall 3</i>						
15:00–16:30	Coffee Break (15:00–15:30) and Unopposed Exhibit Only Time, <i>Exhibit Halls 1, 2 and 3</i>						
16:30–18:30	CW3A • Applications of Laser Processing	CW3B • Trace Gas Sensing	JW3C • Symposium on Space Optical Systems: Opportunities and Challenges II	CW3D • Pulse Shaping and Timing Control	QW3E • Optomechanics and Optofluidics	QW3F • Laser Plasma Accelerators and Plasma in High Fields	JW3G • Nonlinear Microscopy
18:30–20:30	JW4A • Poster Session II & Conference Reception, <i>Concourse & Arcade Levels</i>						

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Plenary and Awards Session II, Civic Auditorium						
Exhibits Open, Exhibit Halls 1, 2 and 3						
Coffee Break, Exhibit Halls 1, 2 and 3						
AW1H • Advanced Fabrication & Characterization Technologies	JW1I • Symposium on Quantum Engineering and Architectures I: Condensed Matter Systems	CW1J • Frequency-Comb Assisted Sensing	CW1K • Integrated Photonic Circuits	CW1L • Novel Light-emitting Materials	CW1M • Opto-mechanical Systems I	CW1N • Mode-locked /Short Pulse Lasers
Market Focus Session III: Energy/Environment: Development of Cost Competitive Solar Energy, Exhibit Hall 3						
VIP Industry Leaders Networking Event: Connecting Corporate Executives, Young Professionals and Students, Exhibit Hall 3						
Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3 (concessions available)						
JW2A • Poster Session I, Exhibit Hall 3						
Market Focus Session IV: Industrial: Next Generation Materials Processing Applications in the Automobile, Heavy Industry and Machine Tool Marketplace, Exhibit Hall 3						
Coffee Break (15:00–15:30) and Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3						
QW3H • Nanofabrication and Plasmonic Detectors	JW3I • Symposium on Quantum Engineering and Architectures II: Optics and Atoms	AW3J • Ultrafast Laser Applications	CW3K • Nonlinear Optics in Microcavities	JW3L • Wide Bandgap Light-emitting Diodes	CW3M • Opto-mechanical Systems II	CW3N • VCSEL/N-Cavity Lasers
JW4A • Poster Session II & Conference Reception, Concourse & Arcade Levels						

Agenda



Agenda of Sessions — Thursday, 10 May

Agenda

	Room A1	Room A2	Room A3	Room A4	Room A5	Room A6	Room A7
08:00–10:00	QTh1A • Hyperbolic Metamaterials	CTh1B • Advances in Nonlinear Optical Materials	CTh1C • Nonlinear Optics in Nanophotonic Structures II	CTh1D • Terahertz Metamaterials & Plasmonics	QTh1E • Novel Quantum Optical Effects	QTh1F • Nanofocusing and Nanocavities	CTh1G • Fiber Components
09:30–12:30	<p align="center">Technology Transfer Program: Technology Transfer 101: Technology Licensing and Tech Startups (09:30–10:30) Technology Transfer Showcase and Keynote (10:30–12:30) Exhibit Hall 3</p>						
10:00–16:00	Exhibits Open, Exhibit Halls 1, 2 and 3						
10:00–11:30	Coffee Break (10:00–10:30) and Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3						
11:30–13:00	JTh2A • Poster Session III, Exhibit Hall 3						
12:30–14:00	Pizza Lunch at the CLEO: Expo, Exhibit Halls 1, 2, and 3						
13:00–14:00	Unopposed Exhibit Only Time, Exhibit Halls 1, 2 and 3						
14:00–16:00	CTh3A • Microcombs and Microresonators	CTh3B • Nonlinear QPM Media	CTh3C • Wideband Modulation and Coding (ends at 15:45)	CTh3D • Low-dimensional Photonic Structures	QTh3E • Nonlinear Plasmonics and Novel Synthetic Materials	QTh3F • Plasmonic Imaging	CTh3G • Advanced Fibers & Fiber Nonlinearities
16:00–16:30	Coffee Break, Concourse Level						
16:30–18:30	CTh4A • Precision Timing and Frequency Distribution	CTh4B • Fiber-based Nonlinear Devices	ATH4C • In Vivo Imaging	CTh4D • Structured Photonic Materials	QTh4E • High Field Phenomena & Laser Cooling	QTh4F • Chiral and Complex Plasmonics	CTh4G • Fiber II
18:30–20:00	Dinner Break (on your own)						
20:00–22:00	Postdeadline Paper Sessions, A3, B2 & B3, C1 & C2, C3 & C4						

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Room A8	Room B2 & B3	Room C1 & C2	Room C3 & C4	Marriott San Jose Salon I & II	Marriott San Jose Salon III	Marriott San Jose Salon IV
CTh1H • High Spectral Efficiency & Reconfigurable Communications	JTh1I • Symposium on Advances in High-Power Lasers and their Applications I: Defense ▶	CTh1J • Frequency Stabilized Lasers and Combs ▶	JTh1K • Symposium on Exploring the Quantum Frontiers of Communications I: Quantum Communications Fundamentals ▶	JTh1L • Environmental Sensing	ATh1M • Cellular Imaging & Therapy	CTh1N • Ultrafast Nonlinear Optics
Technology Transfer Program: Technology Transfer 101: Technology Licensing and Tech Startups (09:30–10:30) Technology Transfer Showcase and Keynote (10:30–12:30) <i>Exhibit Hall 3</i>						
Exhibits Open, <i>Exhibit Halls 1, 2 and 3</i>						
Coffee Break (10:00-10:30) and Unopposed Exhibit Only Time, <i>Exhibit Halls 1, 2 and 3</i>						
JTh2A • Poster Session III, <i>Exhibit Hall 3</i>						
Pizza Lunch at the CLEO: Expo, <i>Exhibit Halls 1, 2, and 3</i>						
Unopposed Exhibit Only Time, <i>Exhibit Halls 1, 2 and 3</i>						
QTh3H • Graphene and Carbon-Nanotubes	JTh3I • Symposium on Advances in High-Power Lasers and their Applications II: Scientific Applications ▶	JTh3J • OCT & Microscopy ▶	JTh3K • Symposium on Exploring the Quantum Frontiers of Communications II: Quantum Limits to Classical Communications ▶	ATh3L • Atmospheric Sensing	CTh3M • Integrated Quantum Photonics	CTh3N • High Power & High Speed Quantum Cascade Lasers
Coffee Break, <i>Concourse Level</i>						
QTh4H • Ultrafast X-ray Studies and Nanomechanics	JTh4I • Symposium on Advances in High-Power Lasers and their Applications III: Processing ▶	JTh4J • Lighting and Energy ▶	JTh4K • Symposium on Exploring the Quantum Frontiers of Communications III: Quantum Security & Imaging ▶	CTh4L • Plasmonics and Label Free Sensing	CTh4M • Nanolasers	CTh4N • THz QCLs
Dinner Break (<i>on your own</i>)						
Postdeadline Paper Sessions, <i>A3, B2 & B3, C1 & C2, C3 & C4</i>						

Agenda



Agenda of Sessions — Friday, 11 May

Agenda

	Room A1	Room A2	Room A3	Room A4	Room A5	Room A6	Room A7
08:00–10:00	CF1A • Organic Emitters and Absorbers	CF1B • Novel Application of Nonlinear Optics	CF1C • EUV Metrology	QF1D • Engineered Plasmonic Surfaces	QF1E • Quantum Optics Using Quantum Dots	CF1F • Coherent Communications (ends at 09:30)	QF1G • Spatial and Temporal Solitons
10:00–10:30	Coffee Break, Concourse Level						
10:30–12:30	CF2A • Light Trapping & Resonators	CF2B • Optical Parametric Oscillators	CF2C • Optical Combs and Spectroscopic Applications	QF2D • Plasmonic Gratings and Photonic Crystals	QF2E • Cold Atom	QF2F • Integrated Quantum Devices	QF2G • Nonlinear Optical Processes
12:30–13:30	Lunch Break (on your own)						
13:30–15:30	CF3A • Nonlinear Materials and Devices	CF3B • Mid-infrared Parametric Sources	CF3C • Precision Imaging and Sensing	QF3D • Nano- and Near-Field Spectroscopy	QF3E • Quantum Optics of Atoms and Solids (ends at 15:00)	QF3F • Entanglement	QF3G • Nonlinear Frequency Mixing Phenomena

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QF1H • Disordered and Random Media (ends at 09:45)	CF1I • Optofluidics: 'Lab on a Chip' ▶	CF1J • Photovoltaics Fundamentals and Concepts ▶	CF1K • Short Wavelength Quantum Cascade Lasers ▶	CF1L • High Harmonic and Diffractive Imaging	CF1M • Photonic Crystals I	CF1N • Ultrafast Fiber Lasers
<i>Coffee Break, Concourse Level</i>						
QF2H • Periodic Materials Phenomena	CF2I • Optical Signal Processing ▶ (ends at 12:15)	CF2J • Next-Generation Photovoltaics ▶	CF2K • Quantum Cascade Laser Design & Characterization ▶	CF2L • Ultrafast Devices (ends at 12:00)	CF2M • Plasmonics and Light-Matter Interactions	CF2N • High Power Fiber Lasers and Beam Combining
<i>Lunch Break (on your own)</i>						
QF3H • Photonic Crystals II	CF3I • Space Division Multiplexing (SDM) ▶ (ends at 15:15)	CF3J • Novel Materials and Approaches for "Green" Photonics ▶	CF3K • ICLs and QCL Waveguide Design ▶	CF3L • Ultrafast Mode-locking Dynamics	CF3M • Nonlinear Optics in Nanophotonic Structures III	CF3N • Fiber DFB's and Nonlinear Effects

Agenda

