

Conference Information and Agenda of Sessions

CLEO

Laser Science to Photonic Applications

Technical Conference: 15 – 20 May 2022

The CLEO Hub: 17 – 19 May 2022

San Jose McEnery Convention Center

San Jose, California, USA

cleoconference.org

#CLEO22

DOWNLOAD APP

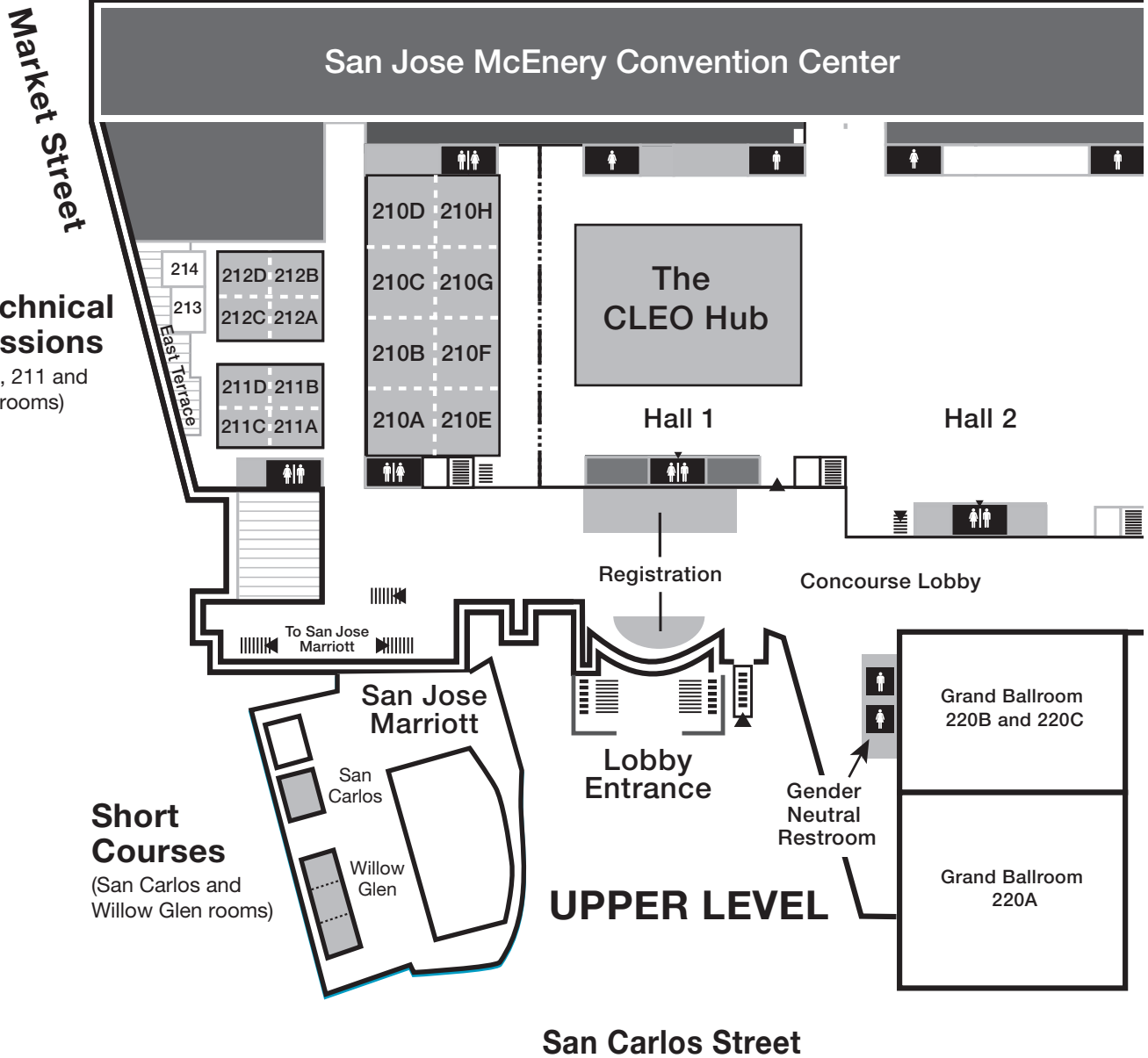


WI-FI 

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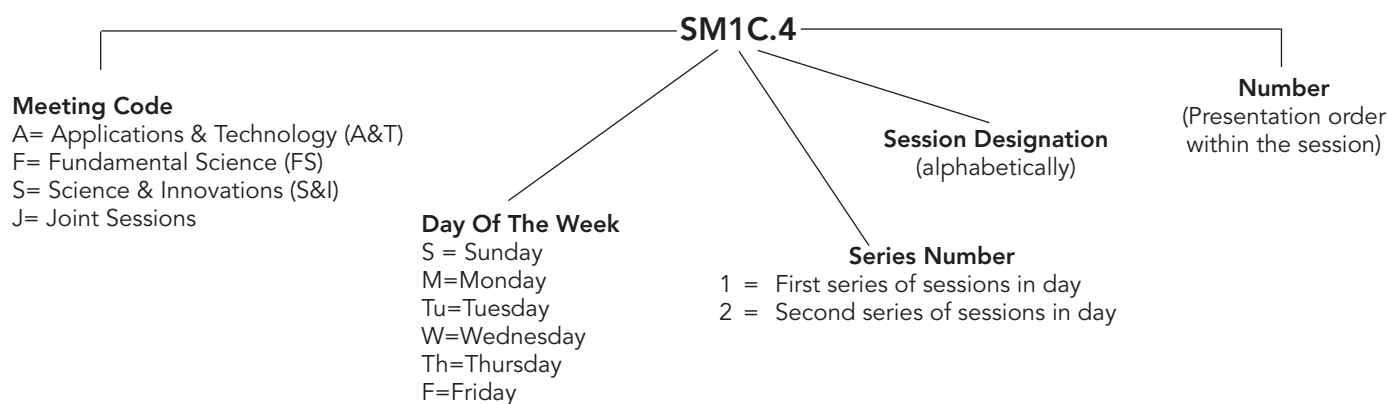




Agenda of Sessions — Sunday, 15 May

| | |
|-------------|--|
| 08:30–12:30 | <p align="center">Short Courses</p> <p align="center">SC149: Foundations of Nonlinear Optics SC157: Laser Beam Analysis, Propagation, and Spatial Shaping Techniques SC477: LiDAR and Remote Sensing: An Application-Oriented Introduction SC362: Optomechanics: Fundamentals and Applications of Controlling and Measuring Nano- and Micro-mechanical Oscillators with Laser Light Tomorrow</p> |
| 10:00–12:00 | <p align="center">Virtual Technical Sessions (Online Only)</p> <p align="center">SS1A • Virtual: Imaging and Dual Comb Metrology SS1B • Virtual: Light Sources and Metasurfaces SS1C • Virtual: Nonlinear Processes in Microresonators SS1D • Virtual: Photonic Integration I</p> |
| 13:30–17:30 | <p align="center">Short Courses</p> <p align="center">SC479: Introduction to Quantum Optics SC474: Super-Resolution Imaging: Basic Nanoscopy Principles and Its Applications to Biology, Chemistry and Materials Science SC502: Topological Photonics</p> |
| 14:00–16:00 | <p align="center">Virtual Technical Sessions (Online Only)</p> <p align="center">SS2A • Virtual: Ultrafast Spectroscopy & Nonlinear Processes SS2B • Virtual: Photonic Neural Networks and Related Components SS2C • Virtual: THz Generation and Applications II SS2D • Virtual: Power Scaling in Semiconductor Lasers</p> |

Explanation of Session Codes



The first letter of the code denotes the day of the week (Sunday=Sunday, Monday=M, Tuesday=Tu, Wednesday=W, Th=Thursday, F=Friday). The second element indicates the session series in that day (for instance, 1 would denote the first parallel sessions in that day). Each day begins with the letter A in the third element and continues alphabetically through a series of parallel sessions. The lettering then restarts with each new series. The number on the end of the code (separated from the session code with a period) signals the position of the talk within the session (first, second, third, etc.). For example, a presentation coded SM1C.4 indicates that this paper from S&I Meeting is being presented on Monday (M) in the first series of sessions (1), and is the third parallel session (C) in that series and the fourth paper (4) presented in that session.

Agenda of Sessions — Monday, 16 May

| Pacific Daylight Time Zone (PDT) | Executive Ballroom 210A | Executive Ballroom 210B | Executive Ballroom 210C | Executive Ballroom 210D | Executive Ballroom 210E | Executive Ballroom 210F | Executive Ballroom 210G | Executive Ballroom 210H |
|----------------------------------|---|---|--|--|--|---|--|--|
| 05:00–07:00 | <p align="center">Virtual Technical Sessions (Online Only)</p> <p align="center">FM1A • Virtual: Exciton and Phonon Dynamics in Quantum Materials FM1B • Virtual: Metamaterials, Metasurfaces, and Metalenses FM1C • Virtual: Quantum Networks SM1D • Virtual: Active Optical Sensing</p> | | | | | | | |
| 08:00–10:00 | FM2A • Advances in Nano-optics: Reaching the Atomic Scale | FM2B • Nonlinear Phenomena in Quantum Processes and Quantum Light Generation I | AM2C • Topical Review on Micro and Nano mechanics in Photonic Integrated Circuits I | AM2D • Quantum Photonics | JM2E • Symposium on Ultrafast Mid-IR Laser Sources and Applications I | SM2F • Coherent Light Sources for Precision Timing Applications | SM2G • Photonics of Low Dimensional Materials and Nanostructures | FM2H • Meta-Imaging and Holography |
| 08:30–12:30 | <p align="center">Short Courses</p> <p align="center">SC361: Coherent Mid-IR Light: Generation and Applications SC396: Frontiers of Guided Wave Nonlinear Optics SC475: Metasurface Flat Optics SC376: Plasmonics and Mie-tronics</p> | | | | | | | |
| 10:00–10:30 | <p align="center">Coffee Break, Concourse 1</p> | | | | | | | |
| 10:30–12:30 | JM3A • Symposium on Optical Frequency Combs in Dissipative Fiber Systems I | FM3B • Nonlinear Phenomena in Quantum Processes and Quantum Light Generation II | AM3C • Topical Review on Micro and Nano mechanics in Photonic Integrated Circuits II | AM3D • Quantum Communication & Networking | JM3E • Symposium on Ultrafast Mid-IR Laser Sources and Applications II | SM3F • Spectroscopy for Optical Metrology | SM3G • Noise and Stability in Semiconductor Lasers | SM3H • Light-matter Interactions on Chip |
| 12:30–13:30 | <p align="center">Lunch (on Your Own)</p> | | | | | | | |
| 13:30–15:30 | JM4A • Symp: Optical Frequency Combs in Dissipative Fiber Systems II | FM4B • Non-Hermitian Systems and Parity-Time Symmetry I | FM4C • Single-Photon Detectors | FM4D • Quantum Optics with Atoms and Molecules | JM4E • Symp: Ultrafast Mid-IR Laser Sources and Applications III | FM4F • Optical Metasurfaces I | SM4G • Silicon Nitride Photonics | FM4H • Propagation and Sensing |
| 13:30–17:30 | <p align="center">Short Courses</p> <p align="center">SC410: Finite Element Modeling Methods for Photonics and Optics SC455: Integrated Photonics for Quantum Information Science and Technology SC503: The Physics Behind the Quantum Internet/ For Beginners</p> | | | | | | | |
| 15:30–16:00 | <p align="center">Coffee Break, Concourse 1</p> | | | | | | | |
| 16:00–18:00 | JM5A • Symposium on Optical Frequency Combs in Dissipative Fiber Systems III | FM5B • Non-Hermitian Systems and Parity-time Symmetry II | FM5C • Continuous Variables and Higher Dimensions | FM5D • Quantum Optics with Ions and Electrons | SM5E • Lasers in Large Scale Facilities | FM5F • Optical Metasurfaces II | SM5G • Silicon Photonics | FM5H • Computational Design |
| 18:00–19:00 | <p align="center">SpE23 • Black in Photonics Informal Social Hour, <i>Location TBD</i></p> | | | | | | | |
| 18:30–19:30 | <p align="center">SpE1 • Optica Networking Meetup: How Was Your Pandemic Experience? <i>Executive Ballroom 210A</i> SpE10 • Deep Sensing and Super Resolution, <i>Executive Ballroom 210E</i></p> | | | | | | | |

Continued

Monday, 16 May (cont'd.)

| Pacific Daylight Time Zone (PDT) | Meeting Room 211A | Meeting Room 211B | Meeting Room 211C | Meeting Room 211D | Meeting Room 212A | Meeting Room 212B | Meeting Room 212C | Meeting Room 212D |
|----------------------------------|--|--|--|---|--|---|--|--|
| 05:00–07:00 | Virtual Technical Sessions (Online Only) FM1A • Virtual: Exciton and Phonon Dynamics in Quantum Materials FM1B • Virtual: Metamaterials, Metasurfaces, and Metalenses FM1C • Virtual: Quantum Networks SM1D • Virtual: Active Optical Sensing | | | | | | | |
| 08:00–10:00 | AM2I • New Paths for Biosensing | SM2J • High Capacity Transmission | AM2K • Advances in LIDAR for Physical and Atmospheric Sensing Applications | SM2L • High Power Fibre Lasers and Amplifiers | AM2M • Advanced Spectroscopy for Material Characterization | SM2N • Generating Exotic States of Light | SM2O • Nonlinear Optical Sources in Bulk Solid State and Fiber Platforms | SM2P • Heterogenous Integration |
| 08:30–12:30 | Short Courses SC361: Coherent Mid-IR Light: Generation and Applications SC396: Frontiers of Guided Wave Nonlinear Optics SC475: Metasurface Flat Optics SC376: Plasmonics and Mie-tronics | | | | | | | |
| 10:00–10:30 | Coffee Break, <i>Concourse 1</i> | | | | | | | |
| 10:30–12:30 | AM3I • Industrial Applications in Laser Microprocessing | SM3J • Short Reach and Analog Transmission | SM3K • Photodetection | SM3L • Fiber-based Imaging and Compact Biosensors | AM3M • Design and Application of Acoustic and Ultrasound Sensors | SM3N • Electronic-Photonic Integration | SM3O • Ultrafast Nonlinear Optics and Pulse Manipulation | SM3P • Reconfigurable Photonics and Emission Control |
| 12:30–13:30 | Lunch (on Your Own) | | | | | | | |
| 13:30–15:30 | AM4I • Laser-Based Device Fabrication | SM4J • High-speed Transmission Techniques | SM4K • Integrated Nonlinear Photonics I | SM4L • Spectroscopy for Biosensing and Imaging | AM4M • Multi-Scale Field Measurements of Greenhouse Gases | FM4N • Novel Spectroscopy for Probing Multibody Dynamics | SM4O • Nonlinear Nanophotonics | SM4P • Beamsteering |
| 13:30–17:30 | Short Courses SC410: Finite Element Modeling Methods for Photonics and Optics SC455: Integrated Photonics for Quantum Information Science and Technology SC503: The Physics Behind the Quantum Internet/ For Beginners | | | | | | | |
| 15:30–16:00 | Coffee Break, <i>Concourse 1</i> | | | | | | | |
| 16:00–18:00 | AM5I • Advances in Optical Coherence Tomography | SM5J • LiFi and Wireless Convergence | SM5K • Integrated Nonlinear Photonics II | SM5L • Short-wave and Mid-IR Fibre Lasers | AM5M • Novel Applications for Optical Environmental Sensing | FM5N • Spectroscopy Investigation of Topological and Magnetic Materials | SM5O • Novel Microscopy Techniques | SM5P • Two Dimensional Materials Photonics |
| 18:00–19:00 | SpE23 • Black in Photonics Informal Social Hour, <i>Location TBD</i> | | | | | | | |
| 18:30–19:30 | SpE1 • Optica Networking Meetup: How Was Your Pandemic Experience? <i>Executive Ballroom 210A</i> SpE10 • Deep Sensing and Super Resolution, <i>Executive Ballroom 210E</i> | | | | | | | |

Agenda of Sessions — Tuesday, 17 May

| Pacific Daylight Time Zone (PDT) | Executive Ballroom 210A | Executive Ballroom 210B | Executive Ballroom 210C | Executive Ballroom 210D | Executive Ballroom 210E | Executive Ballroom 210F | Executive Ballroom 210G | Executive Ballroom 210H |
|----------------------------------|--|--|--|--|--|--|-----------------------------------|---|
| 04:00–06:00 | Virtual Technical Sessions (Online Only) FTu1A • Virtual: Quantum Optics of Atoms, Molecules and Solids FTu1B • Virtual: Novel Modes and Coupling Phenomena STu1C • Virtual: Ferroelectric Materials and Microcombs | | | | | | | |
| 08:30–10:00 | JTu2A • Joint Plenary Session I and Award, Prize and Fellow Presentations, <i>The CLEO Hub Theater</i> | | | | | | | |
| 10:00–11:30 | SpE2 • Experiences and Advice in Breaking the Glass Ceiling as a Woman in STEM, <i>Executive Ballroom 210A</i> | | | | | | | |
| 10:00–16:00 | The CLEO Hub (Exhibition) Hours | | | | | | | |
| 10:00–13:00 | Exhibit Only Time | | | | | | | |
| 10:00–11:30 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | |
| 10:00–11:30 | SpE3 • Optica Publishing Group's Meet the Journal Editors, <i>Optica Booth</i> | | | | | | | |
| 10:30–14:30 | Short Courses SC403: NanoCavity Quantum Electrodynamics and Applications SC438: Photonic Metamaterials SC352: Ultrafast Laser Pulse Compression, Shaping, and Characterization | | | | | | | |
| 10:30–10:45 | TS1 • Technology Showcase: Why is Beam Profiling Difficult Compared to Other Laser Measurements and What Can You Do About It? Tips and Techniques Presented by MKS Instruments, <i>The CLEO HUB Theatre</i> | | | | | | | |
| 10:45–11:00 | TS2 • Technology Showcase: What is Laser Trapping and Excitation and why is it Crucial for Quantum Computing? Developments in Laser Technology and Techniques Presented by MKS Instruments, <i>The CLEO HUB Theatre</i> | | | | | | | |
| 11:00–12:30 | SpE4 • Optica Panel Discussion: What's Next in Integrated Photonics - Hot Topics at CLEO 2022, <i>Executive Ballroom 210E</i> SpE5 • Women Pioneering the World of Quantum Computing, <i>Executive Ballroom 210F</i> | | | | | | | |
| 11:15–11:45 | TS3 • Technology Showcase: Miro Altitude - The State-Of-The-Art in Laser Beam Measurement Presented by Gentec Electro-Optics, Inc., <i>The CLEO Hub Theater</i> | | | | | | | |
| 11:30–12:30 | SpE7 • Frontiers of Guided Wave Nonlinear Optics, <i>Optica Booth</i> | | | | | | | |
| 11:30–13:00 | JTu3A • Joint Poster Session I-A (In-person), <i>The CLEO Hub</i> JTu3B • Joint Poster Session I-B (Virtual Only) SpE6 • Optica Fellows and Honorees Luncheon (Invitation Only), <i>Room 111</i> | | | | | | | |
| 12:00–12:30 | TS4 • Technology Showcase: Photon Counting Technologies for Low Light Applications Presented by Hamamatsu Corporation, <i>The CLEO Hub Theater</i> | | | | | | | |
| 12:00–12:30 | SpE8 • Coherent Mid-IR Light: Generations and Applications, <i>Optica Booth</i> | | | | | | | |
| 13:00–15:00 | Tu4A • Quantum Key Distribution | FTu4B • Light-induced Emergent Phenomena in Solids | JTu4Q • Symposium on Crossroads of Metaphotonics: Computational Imaging and Reconfigurable Metasurfaces I | JTu4D • Symp: Entangled Two-Photon Absorption: New Opportunities in Molecular Science and Spectroscopy I | STu4E • Topological and Nanolasers | STu4F • Integrated Quantum Technologies: Devices and Fabrication | STu4G • Lithium Niobate Photonics | STu4H • Nanoscale Light-Matter Interactions |
| 13:15–13:45 | SpE14 • 3D Phase and Fluorescence Microscopy with Scattering Examples, <i>Optica Booth</i> | | | | | | | |
| 15:00–16:00 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | |
| 16:00–18:00 | FTu5A • Generation and Measurement of Quantum States | STu5B • Design and Realization of Composite Quasiparticles in Solids | JTu5Q • Symposium on Crossroads of Metaphotonics: Computational Imaging and Reconfigurable Metasurfaces II | JTu5D • Symposium on Entangled Two-Photon Absorption: New opportunities in Molecular Science and Spectroscopy II | STu5E • Vertical (PCSELS, VCSELS) and Topological Lasers | STu5F • Quantum Networks and Computation with Diamonds and Other Solid State Systems | STu5G • Hybrid Integration | STu5H • Structuring Light-Matter Interactions |
| 18:30–19:30 | SpE9 • Optica Cracking the Optics Networking Event, <i>Room 214</i> | | | | | | | |
| 18:30–20:00 | Special Sessions SpE11 • Hybrid Quantum-Classical Technologies, <i>Executive Ballroom 210B</i> SpE12 • Opportunities and Challenges for Optical Phase-Change Materials in Foundry-Processed Photonics, <i>Executive Ballroom 210E</i> SpE13 • Optimizing Career Paths in Optics: The Guide for Young Professionals, <i>Executive Ballroom 210F</i> | | | | | | | |

Continued

Tuesday, 17 May (cont'd.)

| Pacific Daylight Time Zone (PDT) | Meeting Room 211A | Meeting Room 211B | Meeting Room 211C | Meeting Room 211D | Meeting Room 212A | Meeting Room 212B | Meeting Room 212C | Meeting Room 212D | The CLEO Hub Theater |
|----------------------------------|--|----------------------------------|---|--|---|---|---|--|---|
| 04:00–06:00 | Virtual Technical Sessions (Online Only) FTu1A • Virtual: Quantum Optics of Atoms, Molecules and Solids FTu1B • Virtual: Novel Modes and Coupling Phenomena STu1C • Virtual: Ferroelectric Materials and Microcombs | | | | | | | | |
| 08:30–10:00 | JTu2A • Joint Plenary Session I and Award, Prize and Fellow Presentations, <i>The CLEO Hub Theater</i> | | | | | | | | |
| 10:00–11:30 | SpE2 • Experiences and Advice in Breaking the Glass Ceiling as a Woman in STEM, <i>Executive Ballroom 210A</i> | | | | | | | | |
| 10:00–16:00 | The CLEO Hub (Exhibition) Hours | | | | | | | | |
| 10:00–13:00 | Exhibit Only Time | | | | | | | | |
| 10:00–11:30 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | | |
| 10:00–11:30 | SpE3 • Optica Publishing Group's Meet the Journal Editors, <i>Optica Booth</i> | | | | | | | | |
| 10:30–16:30 | Short Courses SC403: NanoCavity Quantum Electrodynamics and Applications SC438: Photonic Metamaterials SC352: Ultrafast Laser Pulse Compression, Shaping, and Characterization | | | | | | | | |
| 10:30–10:45 | TS1 • Technology Showcase: Why is Beam Profiling Difficult Compared to Other Laser Measurements and What Can You Do About It? Tips and Techniques Presented by MKS Instruments, <i>The CLEO HUB Theatre</i> | | | | | | | | |
| 10:45–11:00 | TS2 • Technology Showcase: What is Laser Trapping and Excitation and why is it Crucial for Quantum Computing? Developments in Laser Technology and Techniques Presented by MKS Instruments, <i>The CLEO HUB Theatre</i> | | | | | | | | |
| 11:00–12:30 | SpE4 • Optica Panel Discussion: What's Next in Integrated Photonics - Hot Topics at CLEO 2022, <i>Executive Ballroom 210E</i> SpE5 • Women Pioneering the World of Quantum Computing, <i>Executive Ballroom 210F</i> | | | | | | | | |
| 11:15–11:45 | TS3 • Technology Showcase: Miro Altitude - The State-Of-The-Art in Laser Beam Measurement Presented by Gentec Electro-Optics, Inc. | | | | | | | | |
| 11:30–12:30 | SpE7 • Frontiers of Guided Wave Nonlinear Optics, <i>Optica Booth</i> | | | | | | | | |
| 11:30–13:00 | JTu3A • Joint Poster Session I-A (In-person), <i>The CLEO Hub</i> JTu3B • Joint Poster Session I-B (Virtual Only) SpE6 • Optica Fellows and Honorees Luncheon (Invitation Only), <i>Room 111</i> | | | | | | | | |
| 12:00–12:30 | TS4 • Technology Showcase: Photon Counting Technologies for Low Light Applications Presented by Hamamatsu Corporation, <i>The CLEO Hub Theater</i> | | | | | | | | |
| 12:00–12:30 | SpE8 • Coherent Mid-IR Light: Generations and Applications, <i>Optica Booth</i> | | | | | | | | |
| 13:00–15:00 | ATu4I • Laser Absorption in Extreme Environments and Robust Sensing | FTu4J • Topological Processes I | ATu4K • Photonics Technologies for Biological Applications | STu4L • THz Imaging and Spectroscopy | ATu4M • Cavity-enhanced Detection and LIDAR Instrumentation | STu4N • High Power and High Energy Lasers | ATu4O • Mid-IR and Frequency Comb Laser | STu4P • Multimode Fibers and Applications - I | ATu4C • Laser Induced Surface Functionalization |
| 13:15–13:45 | SpE14 • 3D Phase and Fluorescence Microscopy with Scattering Examples, <i>Optica Booth</i> | | | | | | | | |
| 15:00–16:00 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | | |
| 16:00–18:00 | ATu5I • Advanced Microscopic Applications | FTu5J • Topological Processes II | ATu5K • Mid-IR Frequency Combs and Advanced Comb Applications | STu5L • THz Photonics and Communications | ATu5M • Cutting-Edge Technologies and Optical Devices | STu5N • Advanced High Intensity, Ultrashort Laser Systems | STu5O • Clocks and Sensing | STu5P • Multimode Fibers and Applications - II | ATu5C • A&TTR: Photonics Technologies for Advancements in Ophthalmic Applications |
| 18:30–19:30 | SpE9 • Optica Cracking the Optics Networking Event, <i>Room 214</i> | | | | | | | | |
| 18:30–20:00 | Special Sessions SpE11 • Hybrid Quantum-Classical Technologies, <i>Executive Ballroom 210B</i> SpE12 • Opportunities and Challenges for Optical Phase-Change Materials in Foundry-Processed Photonics, <i>Executive Ballroom 210E</i> SpE13 • Optimizing Career Paths in Optics: The Guide for Young Professionals, <i>Executive Ballroom 210F</i> | | | | | | | | |

Agenda of Sessions — Wednesday, 18 May

| Pacific Daylight Time Zone (PDT) | Executive Ballroom 210A | Executive Ballroom 210B | Executive Ballroom 210C | Executive Ballroom 210D | Executive Ballroom 210E | Executive Ballroom 210F | Executive Ballroom 210G | Executive Ballroom 210H |
|----------------------------------|--|--|---|--|--|--|---|---|
| 05:00–07:00 | Virtual Technical Sessions (Online Only) FW1A • Virtual: Quantum Photonics FW1B • Virtual: Frequency Combs, Solitons and Spatiotemporal Phenomena FW1C • Virtual: Optical Metasurfaces III AW1D • Virtual: Progress in LED and Lasers | | | | | | | |
| 08:00–10:00 | JW2A • Joint Plenary Session II and Award, Prize and Fellow Presentations, <i>The CLEO Hub Theater</i> | | | | | | | |
| 10:00–19:00 | The CLEO Hub (Exhibition) Hours | | | | | | | |
| 10:00–10:30 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | |
| 10:30–11:00 | TS5 • Technology Showcase: Laser and Optomechanics Developments from Thorlabs Presented by Thorlabs, Inc., <i>The CLEO Hub Theater</i> | | | | | | | |
| 10:30–11:15 | SpE15 • Optica Publishing Group's Meet the Journal Editors, <i>Optica Booth</i> | | | | | | | |
| 11:00–12:30 | SpE16 • Optica Panel Discussion: Machine Learning, AI, and Metalens Synergies in Advanced Bioimaging, <i>Executive Ballroom 210E</i> | | | | | | | |
| 11:15–11:45 | SpE17 • The Physics Behind the Quantum Internet, <i>Optica Booth</i> | | | | | | | |
| 11:30–12:30 | SpE18 • Experiences in Breaking Through the Glass Ceiling as an Ethnic Minority, <i>The CLEO Hub Theater</i> | | | | | | | |
| 11:30–13:00 | JW3A • Joint Poster Session II, <i>The CLEO Hub</i> JW3B • Virtual: Joint Poster Session II | | | | | | | |
| 13:00–13:30 | SpE19 • Pulse Compression, Shaping, and Characterization, <i>Optica Booth</i> | | | | | | | |
| 13:00–15:00 | JW4A • Symposium on Novel Phenomena in Time-Variant Photonics I | FW4B • High Harmonic Generation and Attosecond Pulse Techniques | JW4Q • Symposium on Crossroads of Metaphotonics: Computational Imaging and Reconfigurable Metasurfaces III | FW4D • Quantum Optomechanics and Transduction | SW4E • Deep Learning for Optical Communications | SW4F • Quantum Metrology for High Precision Measurement | SW4G • THz Metasurfaces and Cavities | SW4H • Nonlinear Processes in Microresonators I |
| 13:30–14:00 | SpE20 • Finite Element Modeling Methods for Photonics and Optics, <i>Optica Booth</i> | | | | | | | |
| 15:00–15:30 | Color Technical Group Meet-up, <i>Optica Booth</i> | | | | | | | |
| 15:00–16:00 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | |
| 16:00–18:00 | JW5A • Symposium on Novel Phenomena in Time-Variant Photonics II | FW5B • Free-electron Laser, X-Ray, and Particle Beam Sources | JW5Q • Symposium on Crossroads of Metaphotonics: Computational Imaging and Reconfigurable Metasurfaces IV | FW5D • Topological Photonics | SW5E • Photonic Neural Networks and Components | FW5F • Quantum Dots & Color Centers | SW5G • THz Near-Field Microscopy | SW5H • Nonlinear Optics in Micro and Nano-resonators |
| 18:00–19:30 | Conference Reception, <i>The CLEO Hub</i> | | | | | | | |

Continued

Wednesday, 18 May (cont'd.)

| Pacific Daylight Time Zone (PDT) | Meeting Room 211A | Meeting Room 211B | Meeting Room 211C | Meeting Room 211D | Meeting Room 212A | Meeting Room 212B | Meeting Room 212C | Meeting Room 212D | The CLEO Hub Theater |
|----------------------------------|--|------------------------------|-----------------------------------|---|---|--|--|---|--|
| 05:00–07:00 | Virtual Technical Sessions (Online Only) FW1A • Virtual: Quantum Photonics FW1B • Virtual: Frequency Combs, Solitons and Spatiotemporal Phenomena FW1C • Virtual: Optical Metasurfaces III AW1D • Virtual: Progress in LED and Lasers | | | | | | | | |
| 08:00–10:00 | JW2A • Joint Plenary Session II and Award, Prize and Fellow Presentations, <i>The CLEO Hub Theater</i> | | | | | | | | |
| 10:00–19:00 | The CLEO Hub (Exhibition) Hours | | | | | | | | |
| 10:00–10:30 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | | |
| 10:30–11:00 | T55 • Technology Showcase: Laser and Optomechanics Developments from Thorlabs Presented by Thorlabs, Inc., <i>The CLEO Hub Theater</i> | | | | | | | | |
| 10:30–11:15 | SpE56 • Optica Publishing Group's Meet the Journal Editors, <i>Optica Booth</i> | | | | | | | | |
| 11:00–12:30 | SpE16 • Optica Panel Discussion: Machine Learning, AI, and Metalens Synergies in Advanced Bioimaging, <i>Executive Ballroom 210E</i> | | | | | | | | |
| 11:15–11:45 | SpE17 • The Physics Behind the Quantum Internet, <i>Optica Booth</i> | | | | | | | | |
| 11:30–12:30 | SpE18 • Experiences in Breaking Through the Glass Ceiling as an Ethnic Minority, <i>The CLEO Hub Theater</i> | | | | | | | | |
| 11:30–13:00 | JW3A • Joint Poster Session II-A (In-person), <i>The CLEO Hub</i> JW3B • Joint Poster Session II-B (Virtual Only) | | | | | | | | |
| 13:00–13:30 | SpE19 • Pulse Compression, Shaping, and Characterization, <i>Optica Booth</i> | | | | | | | | |
| 13:00–15:00 | AW4I • Topical Review on Space Optics | FW4J • Combs and Solitons I | SW4K • Hollow-core Optical Fibers | AW4L • Advances in Mid-Infrared Atmospheric Sensing | AW4M • Novel Semiconductor Laser Configurations | AW4N • Topical Review on Laser Surface Functionalization for Antibacterial and Medical Applications I | SW4O • Integrated Photonics for RF Signal Processing | AW4P • Quantum Technology & Quantum Computing | AW4C • A&TTR: Compact Technologies for Wearable Devices I |
| 13:30–14:00 | SpE20 • Finite Element Modeling Methods for Photonics and Optics, <i>Optica Booth</i> | | | | | | | | |
| 15:00–15:30 | Color Technical Group Meet-up, <i>Optica Booth</i> | | | | | | | | |
| 15:00–16:00 | Coffee Break, <i>The CLEO Hub</i> | | | | | | | | |
| 16:00–18:00 | FW5I • Imaging and Sensing | FW5J • Combs and Solitons II | SW5K • Specialty Optical Fibers | AW5L • Next-Gen Communications Technologies | AW5M • QD and Novel Laser Diodes | AW5N • Topical Review on Laser Surface Functionalization for Antibacterial and Medical Applications II | SW5O • Integrated Photonics in Expanded Wavelength Bands | AW5P • Quantum Devices: Detectors & Frequency Combs | AW5C • A&TTR: Compact Technologies for Wearable Devices II |
| 18:00–19:30 | Conference Reception, <i>The CLEO Hub</i> | | | | | | | | |

Agenda of Sessions — Thursday, 19 May

| Pacific Daylight Time Zone (PDT) | Executive Ballroom 210A | Executive Ballroom 210B | Executive Ballroom 210C | Executive Ballroom 210D | Executive Ballroom 210E | Executive Ballroom 210F | Executive Ballroom 210G | Executive Ballroom 210H |
|----------------------------------|---|---|--|--|--|-------------------------|---|---|
| 05:00–07:00 | Virtual Technical Sessions (Online Only) FTh1A • Virtual: Synthetic Dimensions and Optical/Photonic Simulators and Devices STh1B • Virtual: Hot Topics in Quantum Science with Atoms, Photons and Spins ATH1C • Virtual: Laser Material Processing ATH1D • Virtual: Imaging Techniques Across Multiple Modalities and Dimensions | | | | | | | |
| 08:00–10:00 | JTh2P • Symposium on Space-time Optics I | FTh2B • Advances in Plasmonics | ATH2C • Topical Review on Specialty Fibers for Ultrafast Lasers I | FTh2D • Reconfigurable Materials and Devices | STh2E • Pulse shaping and Spatio-Temporal Coupling - STC | STh2F • Microcombs I | STh2G • Beam Steering and Optical Switching | STh2H • Metasurfaces |
| 10:00–15:30 | The CLEO Hub (Exhibition) Hours | | | | | | | |
| 10:00–13:00 | Exhibit Only Time | | | | | | | |
| 10:30–12:30 | FTh5C • Microresonator-based Quantum Sources, <i>The CLEO Hub Theater</i> | | | | | | | |
| 11:30–13:00 | JTh3A • Joint Poster Session III-A (In-person), <i>The CLEO Hub Theater</i> JTh3B • Joint Poster Session III-B (Virtual Only) | | | | | | | |
| 13:00–15:00 | JTh4Q • Symposium on Space-time Optics II | FTh4B • All Dielectric Nanophotonics | ATH4C • Topical Review on Specialty Fibers for Ultrafast Lasers II | FTh4D • Temporal Media | STh4E • Special Light Sources: Non-linear Frequency Conversion, Solitons, Orbital Angular Momentum | STh4F • Microcombs II | STh4G • Tunable Photonics | STh4H • Integrated Quantum Photonics |
| 15:00–15:45 | Coffee Break, <i>Concourse 1</i> | | | | | | | |
| 15:00–17:30 | SpE21 • Quantum Entanglement (Networking Mixer), <i>Executive Ballroom 214</i> | | | | | | | |
| 15:30–17:30 | JTh5P • Symposium on Space-time Optics III | FTh5B • Thermal and Nonlinear Effects and Electron-light Interactions | FTh5A • Novel Phenomena | FTh5D • Nonlinear and Active Nanophotonics | STh5E • Broadband and Supercontinuum Sources, Frequency Combs | STh5F • Optomechanics | STh5G • Neuromorphic Photonics | STh5H • Long Wavelength Semiconductor Laser Sources from MIR to THz |
| 18:00–19:00 | SpE22 • Optica Panel Discussion: Emerging Trends in Nonlinear Optics – A Review of CLEO:2022, <i>Executive Ballroom 210D</i> | | | | | | | |
| 19:00–21:00 | JTh6A • Joint Postdeadline Presentation Session I | JTh6B • Joint Postdeadline Presentation Session II | | | JTh6C • Joint Postdeadline Presentation Session III | | | |

Continued

Thursday, 19 May (cont'd.)

| Pacific Daylight Time Zone (PDT) | Meeting Room 211A | Meeting Room 211B | Meeting Room 211C | Meeting Room 211D | Meeting Room 212A | Meeting Room 212B | Meeting Room 212C | Meeting Room 212D | The CLEO Hub Theater |
|----------------------------------|---|---|---|--|---|---|---|---|--|
| 05:00–07:00 | Virtual Technical Sessions (Online Only) FTh1A • Virtual: Synthetic Dimensions and Optical/Photonic Simulators and Devices STh1B • Virtual: Hot Topics in Quantum Science with Atoms, Photons and Spins ATH1C • Virtual: Laser Material Processing ATH1D • Virtual: Imaging Techniques Across Multiple Modalities and Dimensions | | | | | | | | |
| 08:00–10:00 | | | ATH2I • Deep Learning for Enhanced Contrast Imaging | ATH2K • Advanced Techniques in Optical Fiber Based Sensing | ATH2L • Novel Semiconductor Based Devices | STh2M • Free Space Optical Communications | STh2N • THz Generation and Detection | STh2O • Topological Photonics and Quantum Materials | FTh2A • Nonlinear Processes in Fibers |
| 10:00–15:30 | The CLEO Hub (Exhibition) Hours | | | | | | | | |
| 10:00–13:00 | Exhibit Only Time | | | | | | | | |
| 10:30–12:30 | FTh5C • Microresonator-based Quantum Sources, <i>The CLEO Hub Theater</i> | | | | | | | | |
| 11:30–13:00 | JTh3A • Joint Poster Session III-A (In-person), <i>The CLEO Hub Theater</i> JTh3B • Joint Poster Session III-B (Virtual Only) | | | | | | | | |
| 13:00–15:00 | ATH4I • Photonics for Biomedical Diagnostics | STh4J • Optical Methods for Mechanical and Geometric Applications | STh4K • Resonator Devices | STh4L • Applications - Imaging & Ultrafast Nonlinear Processes | FTh4M • Quantum Optics with Solid-state Spin Qubits | STh4N • Spatial Division Multiplexing | STh4O • THz Generation and Applications I | STh4P • Nanofabrication of Novel Photonic Devices | FTh4A • Terahertz and Free Electrons (13:15–15:30) |
| 15:00–15:45 | Coffee Break, <i>Concourse 1</i> | | | | | | | | |
| 15:00–17:30 | SpE21 • Quantum Entanglement (Networking Mixer), <i>Executive Ballroom 214</i> | | | | | | | | |
| 15:30–17:30 | | STh5I • Light Generation, Detection, and Nonlinear Effects | STh5J • Imaging-Based Techniques for Sensing | STh5K • Brillouin Fibre Lasers | FTh5L • Quantum Memory | STh5M • Photonics-enabled Signal Processing | STh5N • Time Transfer Techniques | FTh5O • Enabling Technologies | |
| 18:00–19:00 | SpE22 • Optica Panel Discussion: Emerging Trends in Nonlinear Optics – A Review of CLEO:2022, <i>Executive Ballroom 210D</i> | | | | | | | | |
| 19:00–21:00 | | | | | | | | | |

Agenda of Sessions — Friday, 20 May

| Pacific Daylight Time Zone (PDT) | Executive Ballroom 210A | Executive Ballroom 210B | Executive Ballroom 210C | Executive Ballroom 210D | Executive Ballroom 210E | Executive Ballroom 210F | Executive Ballroom 210G | Executive Ballroom 210H |
|----------------------------------|---|--|---|---|---|---|------------------------------------|---|
| 05:00–07:00 | Virtual Technical Sessions (Online Only) FF1A • Virtual: Thermodynamic Optics and Tailored Materials SF1B • Virtual: Short Wave and Broadband Infrared Laser Systems SF1C • Virtual: Photonic Integration II SF1D • Virtual: Optical Computing and Quantum Photonics | | | | | | | |
| 08:00–10:00 | JF2A • Symposium on Light Control in Complex Medium: Fundamentals and Applications I | JF2B • Symposium on Topological Lasers I | FF2C • Advances in Nano-optics: Topological Effects | FF2D • Meta-optics | SF2E • Few-cycle Pulses and CEP | SF2F • Frequency Comb-Based Spectroscopy and Sensing | SF2G • Integrated Light Sources | SF2H • Ultrashort Pulsed Fiber Laser Systems |
| 10:00–10:30 | Coffee Break, <i>Concourse</i> | | | | | | | |
| 10:30–12:30 | JF3A • Symposium on Light Control in Complex Medium: Fundamentals and Applications II | JF3B • Symposium on Topological Lasers II | FF3C • Nonlinear and Quantum Plasmonics | FF3D • Chiral and Rotational Structures | SF3E • Ultrashort Pulse Characterization and Control | SF3F • Advanced Spectroscopic Sensing Techniques | SF3G • Quantum Photonics | SF3H • Dispersion and Nonlinearity Managed fiber Systems |
| 12:30–14:00 | Lunch (on Your Own) | | | | | | | |
| 14:00–16:00 | FF4A • Quantum Sensing | FS4B • Single Emitters and Light-matter Interactions | FF4C • Advances in Nano-Optics: Two-Dimensional and Novel Materials | FF4D • Quantum Phenomena | SF4E • Ultrafast Oscillators, Amplifiers and Post-Compression | SF4F • Nonlinear Optical Technologies for Neural Networks and Machine Learning Applications | SF4G • Novel Materials Integration | SF4H • Optical Fiber Based Frequency Combs and Supercontinuum Sources |

Continued

Friday, 20 May (cont'd.)

| Pacific Daylight Time Zone (PDT) | Meeting Room 211A | Meeting Room 211B | Meeting Room 211C | Meeting Room 211D | Meeting Room 212A | Meeting Room 212B | Meeting Room 212C | Meeting Room 212D |
|----------------------------------|---|-------------------------------|---|---|---|---|--|---|
| 05:00–07:00 | Virtual Technical Sessions (Online Only) FF1A • Virtual: Thermodynamic Optics and Tailored Materials SF1B • Virtual: Short Wave and Broadband Infrared Laser Systems SF1C • Virtual: Photonic Integration II SF1D • Virtual: Optical Computing and Quantum Photonics | | | | | | | |
| 08:00–10:00 | | FF2I • Quantum Computation 1 | FF2J • Quantum Sources and Their Characterization | SF2K • Novel Applications | FF2L • Brillouin Process | SF2M • Biophotonic and High Power Applications | SF2N • Phase Change Materials Photonics | SF2O • Photonic Modulation, Isolation and Switching |
| 10:00–10:30 | <i>Coffee Break, Concourse</i> | | | | | | | |
| 10:30–12:30 | SF3I • Controlling the Properties of Light | FF3J • Quantum Computation II | FF3K • Components for Quantum Networks | SF3L • Laser Induced Surface Effects | SF3M • DSP and Techniques for Coherent Transmission | FF3N • New Methods in Ultrafast Lasers and Strong-field Physics | SF3O • Low-Loss Integrated Photonics | SF3P • Lasers and Parametric Sources |
| 12:30–14:00 | Lunch (on Your Own) | | | | | | | |
| 14:00–16:00 | | FF4I • Entanglement | FF4J • Heterogeneous Quantum Platforms | SF4K • Functional Surfaces and 2D Materials | SF4L • RF Photonics and Secure Communications | SF4M • Advanced Photonic Integrated Circuitry | FF4N • Nonlinear Processes in Sub-wavelength Systems, 2D Materials, and Metasurfaces | SF4O • Optical Methods for Chemical Sensing |

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CLEO A&T 2: Laser-based Manufacturing, Machining and Nanoprinting

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CLEO A&T 4: Environmental Sensing Applications of Optical Measurements and Instrumentation

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CLEO A&T 5: Quantum Technology in Transition

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CLEO A&T 6: Advances in Semiconductor Technology

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FS 4: Optical Excitations and Ultrafast Phenomena in Condensed Matter

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FS 5: Nonlinear Optics and Novel Phenomena

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FS 7: Ultrafast Science of Attosecond, X-Ray Free-Electron-Laser, and Ultra-Intense Light

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FS 8: Metamaterials and Complex Media

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Wei Fan, Shanghai Inst of Optics and Fine Mech, China
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CLEO S&I 5: Terahertz Science and Technology

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Rebecca Milot, University of Warwick, UK
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Xiaojun Wu, Beihang University, China

CLEO S&I 6: Optical Materials, Fabrication and Characterization

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Jie Gao, Missouri Univ of Science & Technology, USA
Tian Gu, Massachusetts Institute of Technology, USA
Shengxi Huang, Pennsylvania State University, USA
Donguk Nam, Nanyang Technological University, Singapore
Georgia Theano Papadakis, Stanford University, USA
Carlos Rios Ocampo, Massachusetts Institute of Technology, USA
Samuel Serna Otálvaro, Massachusetts Institute of Technology, USA
Fengnian Xia, Yale University, USA

CLEO S&I 7: Micro- and Nano-Photonic Devices

Yasutomo Ota, University of Tokyo, Japan, Subcommittee Chair
Siddhartha Ghosh, Northeastern University, USA
Kristinn Gylfason, Kungliga Tekniska Hogskolan, Sweden
Benjamin Lee, NVIDIA Corporation, USA
Hansuek Lee, Korea Advanced Inst of Science & Tech, Korea
Lan Li, Westlake University, China
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Kengo Nozaki, NTT Corporation, Jamaica
Joyce Poon, Max-Planck-Inst fur Mikrostrukturphysik, Germany
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Marina Radulaski, University of California Davis, USA
Amir Safavi-Naeini, Stanford University, USA
Nathan Youngblood, University of Oxford, UK

CLEO S&I 8: Ultrafast Optics & Applications

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Pamela Bowlan, Los Alamos National Laboratory, USA
Olivier Chalus, Thales Optronique SA, France
Laura Corner, University of Liverpool, UK
Scott Domingue, Colorado State University, USA
Hiromitsu Kiriya, National Inst. Quantum & Rad Sc & Tech, Japan
Ming-wei Lin, National Tsing Hua University, Taiwan
Andreas Maier, DESY, Germany
Zsuzsanna Slattery-Major, GSI Helmholtzzentrum für Schwerionenfors, Germany

CLEO S&I 9: Photonic Integration

Alan Wang, Oregon State University USA, Subcommittee Chair
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Sungwon Chung, Neuralink Corporation, USA
Kenneth Crozier, University of Melbourne, Australia
Rena Huang, Rensselaer Polytechnic Institute, USA
Wei Jiang, Nanjing University, China
Juerg Leuthold, ETH Zurich, Switzerland
Meer Nazmus, Sakib Intel Labs- Photonics Research, USA
Xiankai Sun, The Chinese University of Hong Kong, Hong Kong
Yuze Sun, University of Texas at Arlington, USA
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Jinsong Xia, Wuhan National Lab for Optoelectronics, China
Xiaochuan Xu, Harbin Institute of Technology, Shenzhen, China
Yang Zhao, Univ of Illinois at Urbana-Champaign, USA

CLEO S&I 10: Photonic Innovations for Biological Sciences

Emily Gibson, University of Colorado Denver USA, Subcommittee Chair
Mark Foster, Johns Hopkins University, USA
Juliet Gopinath, University of Colorado at Boulder, USA
Hao He, Shanghai Jiao Tong University, China
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Tuesday, 17 May: 10:00–17:00

Wednesday, 18 May: 10:00–17:00

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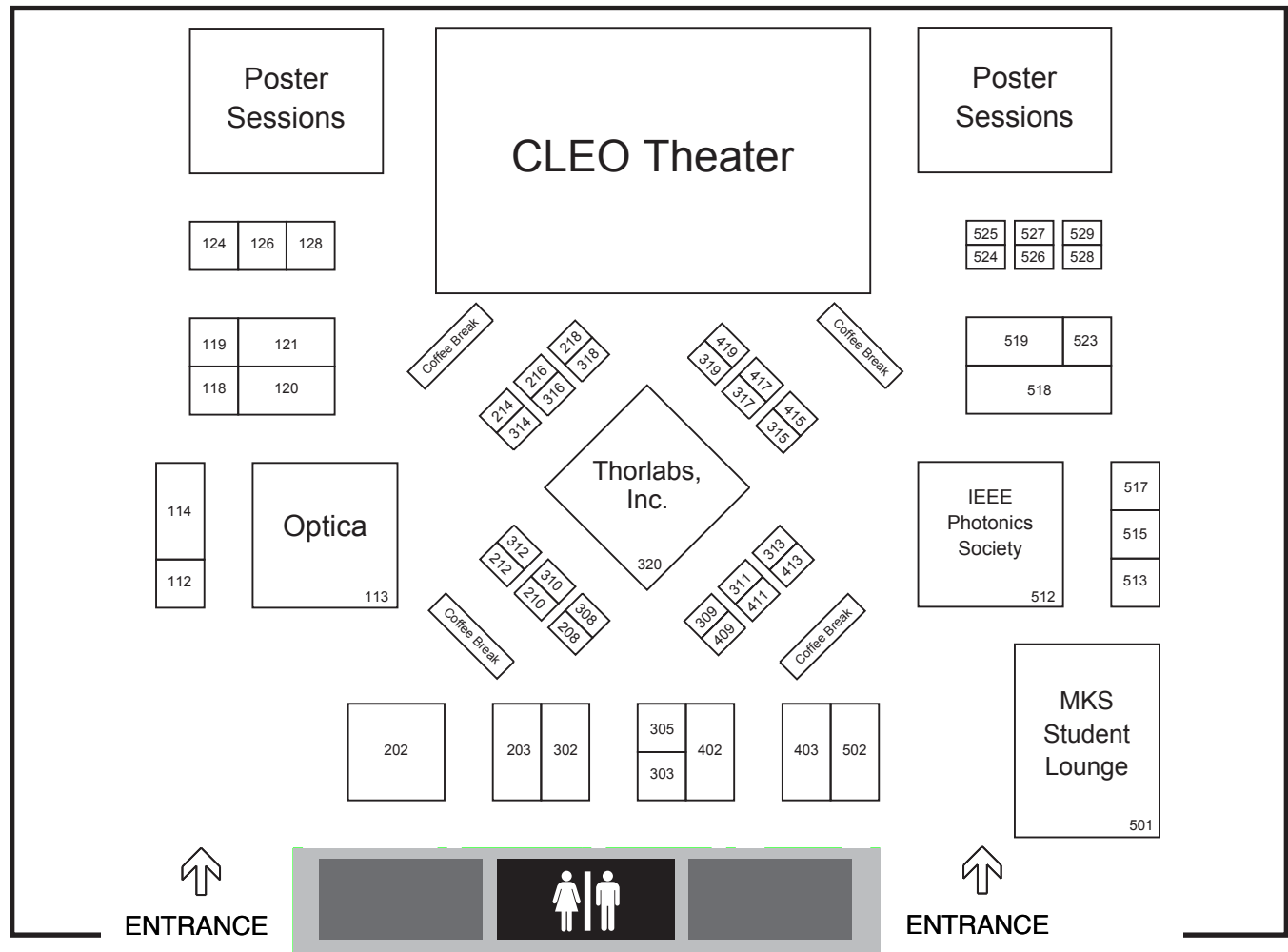
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