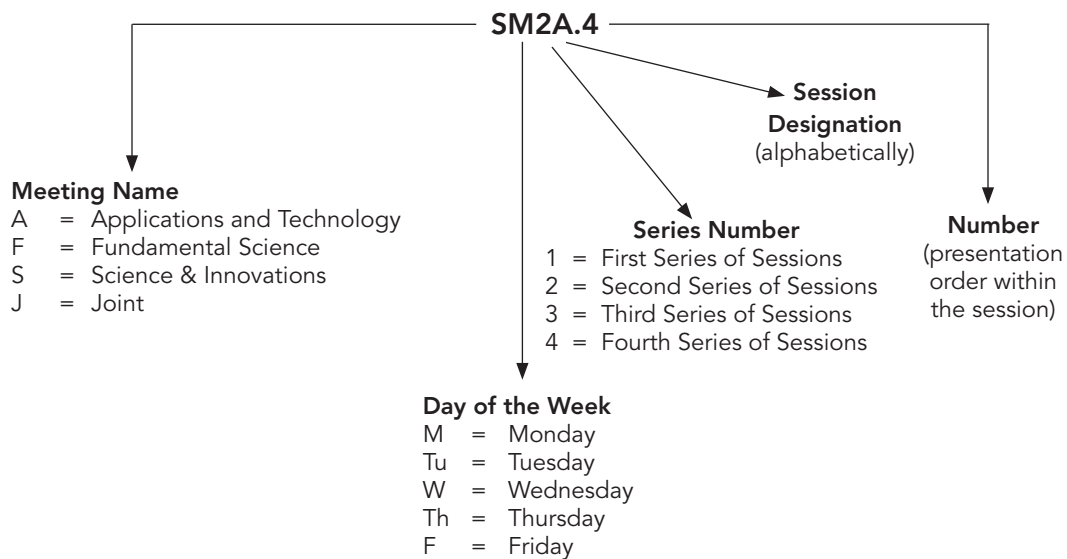


Explanation of Session/Presentation Codes



The first letter of the code designates the meeting (For instance, A=Applications & Technology, F=Fundamental Science, S=Science and Innovations, J=Joint). The second element denotes the day of the week (Monday=M, Tuesday=Tu, Wednesday=W, Thursday=Th, Friday=F). The third element indicates the session series in that day (for instance, 2 would denote the second parallel sessions in that day). Each series of sessions begins with the letter A in the fourth element and continues alphabetically through a series of parallel sessions. 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 SM2A.4 indicates that this paper is part of Science and Innovations (S) and is being presented on Monday (M) in the second series of sessions (2), and is the first parallel session (A) in that series and the fourth paper (4) presented in that session.

Agenda of Sessions — Sunday, 13 May

07:00–17:00	Registration, Concourse Level
08:30–17:00	OSAF Data Science Career Opportunities Course, Market 1, Hilton San Jose
08:30–12:30	SC149: Foundations of Nonlinear Optics SC361: Coherent MidInfrared Sources and Applications SC466: Silicon Integrated Nanophotonics
08:30–15:00	SC456: How to Start A Company
13:00–14:00	OSAF Cheeky Scientist Career Development Workshop (Session I), Winchester 1&2, Hilton San Jose
13:30–16:30	SC439: Attosecond Optics SC403: NanoCavity Quantum Electrodynamics and Applications
13:30–17:30	SC157: Laser Beam Analysis, Propagation, and Shaping Techniques SC301: Quantum Cascade Lasers: Science, Technology, Applications and Markets SC396: Frontiers of Guided Wave Nonlinear Optics
16:00–17:00	OSAF Cheeky Scientist Workshop (Session II), Winchester 1&2, Hilton San Jose

Agenda of Sessions — Monday, 14 May

	Executive Ballroom 210A	Executive Ballroom 210B	Executive Ballroom 210C	Executive Ballroom 210D	Executive Ballroom 210E	Executive Ballroom 210F	Executive Ballroom 210G	Executive Ballroom 210H	Meeting Room 211 B/D
07:00–18:00	Registration, <i>Concourse Level</i>								
08:00–10:00	JM1A • Symposium on Future Directions in Terahertz Nanoscopy I	SM1B • Nonlinear and Microwave Integrated Photonics	SM1C • RF Photonic & Radio-over-fiber	SM1D • Nonlinear Resonators	FM1E • Topological Optics	FM1F • Highly Correlated and Topological States of Matter	FM1G • Quantum Photonic Devices	FM1H • Solid State Spin-Photon Interfaces	SM1I • Modulator on Integrated Platform
08:30–18:00	OIDA Executive Forum on the Exploding Role of Optics in Sensing, <i>Almaden Ballroom, Hilton San Jose</i>								
10:00–10:30	Coffee Break, <i>Concourse Level</i>								
10:30–12:30	JM2A • Symposium on Future Directions in Terahertz Nanoscopy II	SM2B • Novel Nanophotonic Structures and Devices	SM2C • Short Reach Communication	SM2D • Nonlinear Optical Phenomena	FM2E • Topological Photonics and Lasers	FM2F • Exciton-polaritons and Other Excitation in Semiconductors	FM2G • Novel Nonophotonic Light Sources	FM2H • Quantum Optics with Single Atoms	SM2I • Integrated Detectors
12:00–13:00	OSA Optical Material Studies Technical Group Special Talk, <i>Room 230A</i>								
12:30–13:30	Lunch Break (<i>on your own</i>)								
12:30–15:30	SC362: Cavity Optomechanics: Fundamentals and Applications of Controlling and Measuring Nano- and Micro-mechanical Oscillators with Laser Light								
12:30–16:30	SC455: Integrated Photonics for Quantum Information Science and Technology SC378: Introduction to Ultrafast Optics								
13:00–14:00	Social Media 102, <i>Market Room 1, Hilton San Jose</i>								
13:30–15:30	SM3A • Terahertz Nonlinear Spectroscopy	SM3B • Optical Modulators	SM3C • SDM Communications I	SM3D • Nonlinear Optics in Fibers and Waveguides	FM3E • Symmetries in Optics	FM3F • High Harmonic Generation in Solids	FM3G • Quantum Sources I	FM3H • Chiral and Topological Quantum Optics	SM3I • Optical Phase Arrays
14:00–15:30	Workshop: Understanding Unconscious Bias, <i>Winchester 1&2, Hilton San Jose</i>								
15:30–16:00	Coffee Break, <i>Concourse Level</i>								
16:00–18:00	SM4A • THz High-field Generation and Detection	SM4B • Microrings and Novel Modulation Schemes	SM4C • SDM Communication II	SM4D • Optical Meteorology Nonlinear Optical Technologies	FM4E • PT-Symmetry and Non-Hermitian Photonics	FM4F • Probing Materials with Ultrafast Electricity and Extreme Light	FM4G • Quantum Sources II	FM4H • Quantum Optics with Atomic and Molecular Ensembles	SM4I • Novel Emitters
16:00–17:30	Workshop: Understanding Unconscious Bias, <i>Winchester 1&2, Hilton San Jose</i>								
17:30–18:30	Diversity & Inclusion in Optics and Photonics Reception, <i>Market 1&2, Hilton San Jose</i>								
19:00–20:30	OSA Nonophotonics Technical Group 20x20 Talks, <i>Room 230A</i>								

Meeting Room 212 A/C	Meeting Room 212 B/D	Marriott, Salon I & II	Marriott, Salon III	Marriott, Salon IV	Marriott, Salon V	Marriott, Salon VI	Marriott, Willow Glen
Registration, <i>Concourse Level</i>							
AM1J • Advanced Microscopy and Imaging Techniques	SM1K • Raman Scattering and Applications	SM1L • Precision Clocks and Time Transfer	AM1M • Laser-based Advanced Manufacturing & Materials Processing	SM1N • Advanced Laser Technologies	SM1O • Fundamentals of Light-matter Interaction	AM1P • A&T Topical Review on Photonics-enabled Quantum Technologies in Transition I	FM1Q • Optical Filamentation and X-rays
OIDA Executive Forum on the Exploding Role of Optics in Sensing, <i>Almaden Ballroom, Hilton San Jose</i>							
Coffee Break, <i>Concourse Level</i>							
AM2J • Biomedical Imaging	SM2K • Fiber Sensing and Measurement	SM2L • Optical Microwave Generation	AM2M • Material Processing Lasers and Sensing Technologies	SM2N • Fiber and Wave Guide Lasers	SM2O • Light Matter Interaction in Plasmonic & Metamaterials	AM2P • A&T Topical Review on Photonics-enabled Quantum Technologies in Transition II	FM2Q • Non-Hermitian and PT Photonics
OSA Optical Material Studies Technical Group Special Talk, <i>Room 230A</i>							
Lunch Break (<i>on your own</i>)							
SC362: Cavity Optomechanics: Fundamentals and Applications of Controlling and Measuring Nano- and Micro-mechanical Oscillators with Laser Light							
SC455: Integrated Photonics for Quantum Information Science and Technology SC378: Introduction to Ultrafast Optics							
Social Media 102, <i>Market Room 1, Hilton San Jose</i>							
FM3J • Imaging and Cloaking in Metamaterials	SM3K • Billouim Scattering and Applications	SM3L • Photonic Frequency References and Sources	FM3M • Sources and Technology for Attosecond and High-field Physics	SM3N • High Power Lasers	SM3O • Fundamentals of Laser Material Processing	AM3P • Photobiomodulation Therapeutics	FM3Q • Topological Photonic Structure
Workshop: Understanding Unconscious Bias, <i>Winchester 1&2, Hilton San Jose</i>							
Coffee Break, <i>Concourse Level</i>							
FM4J • Fundamentals of Metamaterials	SM4K • Nonlinear Fiber Optics	SM4L • Frequency Comb Development & Technology	SM4M • Power Scaling of Ultrafast Sources	SM4N • Laser Materials	SM4O • Structured Light for Material Processing	AM4P • Biosensing Technologies	FM4Q • Valley-Hall and Active Topological Photonics
Workshop: Understanding Unconscious Bias, <i>Winchester 1&2, Hilton San Jose</i>							
Diversity & Inclusion in Optics and Photonics Reception, <i>Market 1&2, Hilton San Jose</i>							
OSA Nonophotonics Technical Group 20x20 Talks, <i>Room 230A</i>							

Agenda of Sessions — Tuesday, 15 May

	Executive Ballroom 210A	Executive Ballroom 210B	Executive Ballroom 210C	Executive Ballroom 210D	Executive Ballroom 210E	Executive Ballroom 210F	Executive Ballroom 210G	Executive Ballroom 210H	Meeting Room 211 B/D
07:00–18:30	Registration, <i>Concourse Level</i>								
08:00–10:00	JTU1A • Plenary Session I & Awards Ceremony, <i>Grand Ballroom</i>								
10:00–17:00	Exhibition Open, <i>Exhibit Hall</i>								
10:00–11:30	Coffee Break & Exhibit Only Time, <i>Exhibit Hall</i>								
11:30–13:00	JTU2A • Poster Session I, <i>Exhibit Hall</i> Exhibit Hall Free Lunch								
12:00–13:30	OIDA VIP Industry Leaders Speed Meetings Lunch, <i>Exhibit Hall, #2605</i>								
12:00–15:00	SC352: Introduction to Ultrafast Pulse Shaping--Principles and Applications SC376: Plasmonics SC410: Finite Element Modeling Methods for Photonics and Optics								
12:00–16:00	SC270: High Power Fiber Lasers and Amplifiers SC438: Photonic Metamaterials								
13:00–15:00	STu3A • Quantum Photonic Technology	STu3B • OAM and Photodetective	STu3C • Advanced Short Reach and Free Space Communications	STu3D • Terahertz Communications	FTu3E • Thermal and Quantum Applications of Metasurfaces	STu3F • Nonlinear Integrated Photonic Platforms	FTu3G • Quantum Key Distribution	FTu3H • Quantum Optics with Solid-state Single Emitters	ATu3I • OCT and LIDAR
15:00–17:00	Coffee Break & Exhibit Only Time, <i>Exhibit Hall</i>								
15:30–17:00	Meet the OSA Editors Reception, <i>Exhibit Hall, #2425</i>								
17:00–19:00	FTu4A • Quantum Information Processing	STu4B • Wavelength and Phase-sensitive Integrated Devices	STu4C • Nonlinearity Compensation	STu4D • Terahertz QCLs	FTu4E • Quantum and Non-local Plasmonics	STu4F • Nonlinear Optical Phononics & Optomechanics	FTu4G • Continuous Variable Quantum Computing	FTu4H • Novel Solid State Systems for Quantum Optics	ATu4I • Combustion and Hypersonic Flow Diagnostics
19:00–20:30	OSA Technical Group Poster Session, <i>230A/B</i>								

Meeting Room 212 A/C	Meeting Room 212 B/D	Marriott, Salon I & II	Marriott, Salon III	Marriott, Salon IV	Marriott, Salon V	Marriott, Salon VI	Marriott, Willow Glen	Theatre I	Theatre II
Registration, Concourse Level									
JTU1A • Plenary Session I & Awards Ceremony, Grand Ballroom									
Exhibition Open, Exhibit Hall									
Coffee Break & Exhibit Only Time, Exhibit Hall									
JTU2A • Poster Session I, Exhibit Hall Exhibit Hall Free Lunch									
OIDA VIP Industry Leaders Speed Meetings Lunch, Exhibit Hall, #2605									
SC352: Introduction to Ultrafast Pulse Shaping--Principles and Applications SC376: Plasmonics SC410: Finite Element Modeling Methods for Photonics and Optics									
SC270: High Power Fiber Lasers and Amplifiers SC438: Photonic Metamaterials									
ATu3J • Nano-biophotonics	STu3K • Novel Fibers	JTu3L • Symposium on Multimodal and Molecular Contrast Optical Imaging I	STu3M • High Peak Power Lasers & Technologies	STu3N • Chemical Sensing	JTu3O • Laser Modification of Materials	STu3P • Precision Spectroscopy	STu3Q • Advances in VCSELS	ATu3R • A&T Topical Review on Advanced Applications of Laser Radar and Remote Sensing I	ATu3S • A&T Topical Review on Advances in Supercontinuum Technologies I
Coffee Break & Exhibit Only Time, Exhibit Hall									
Meet the OSA Editors Reception, Exhibit Hall, #2425									
ATu4J • Medical Devices & Systems	STu4K • Fiber Frequency Combs	JTu4L • Symposium on Multimodal and Molecular Contrast Optical Imaging II	ATu4M • Thin Film & Metrology for Laser Processing	STu4N • 2D Materials in Photonic Structures	STu4O • Laser Facilities	STu4P • Advanced Sensing Concepts	STu4Q • UV-visible Semiconductor Lasers		
OSA Technical Group Poster Session, 230A/B									

Agenda of Sessions — Wednesday, 16 May

	Executive Ballroom 210A	Executive Ballroom 210B	Executive Ballroom 210C	Executive Ballroom 210D	Executive Ballroom 210E	Executive Ballroom 210F	Executive Ballroom 210G	Executive Ballroom 210H	Meeting Room 211 B/D
07:30–18:30	Registration, <i>Concourse Level</i>								
08:00–10:00	JW1A • Plenary Session II & International Day of Light, <i>Grand Ballroom</i>								
10:00–17:00	Exhibition Open, <i>Exhibit Hall</i>								
10:00–11:30	Coffee Break & Exhibit Only Time, <i>Exhibit Hall</i>								
11:30–13:00	JW2A • Poster Session II, <i>Exhibit Hall</i> Exhibit Hall Free Lunch								
12:00–13:00	OSA Photonic Metamaterials Technical Group Tutorial on Metasurface Design and Simulation, <i>Room 230A</i>								
13:00–15:00	SW3A • Microresonator Combs	SW3B • Hybrid Lasers on Silicon	SW3C • High Capacity Transmission	SW3D • Terahertz Nano-imaging and Spectroscopy	FW3E • Frequency Combs & Precision Metrology	FW3F • Single-Photon Detectors	FW3G • Nonlinear Nano-optics	FW3H • Active and Tunable Metasurfaces	SW3I • Low-dimensional and Phase-change Materials
15:00–17:00	Coffee Break & Exhibit Only Time, <i>Exhibit Hall</i>								
17:00–19:00	SW4A • High-Q Microcavities	SW4B • Nitride-based Integrated Photonics	SW4C • Optical Switching	SW4D • Novel THz Techniques	FW4E • Quantum and Nonlinear Phenomena	FW4F • Beyond Qubits	FW4G • Plasmon-mediated Control of Light Emission	FW4H • Shaping Emission Using Metasurfaces	SW4I • Silicon Hybrid Integration
19:30–20:30	Conference Reception, <i>Grand Ballroom</i>								

Meeting Room 212 A/C	Meeting Room 212 B/D	Marriott, Salon I & II	Marriott, Salon III	Marriott, Salon IV	Marriott, Salon V	Marriott, Salon VI	Marriott, Willow Glen	Theatre I	Theatre II
Registration, Concourse Level									
JW1A • Plenary Session II & International Day of Light, Grand Ballroom									
Exhibition Open, Exhibit Hall									
Coffee Break & Exhibit Only Time, Exhibit Hall									
JW2A • Poster Session II, Exhibit Hall Exhibit Hall Free Lunch									
OSA Photonic Metamaterials Technical Group Tutorial on Metasurface Design and Simulation, Room 230A									
SW3J • Biosensors & Photonic Devices	SW3K • Few Mode Fibers and OAM	SW3L • Fiber and Waveguide Sensing	SW3M • Beam Control & Measurement	SW3N • Few-cycle Sources	AW3O • Optical Enhancement of Photovoltaics	JW3P • Symposium on New Advances in Adaptive Optics Retinal Imaging I	SW3Q • Semiconductor Lasers for Integration	AW3R • A&T Topical Review on Advanced Applications of Laser Radar and Remote Sensing II	AW3S • A&T Topical Review on Advances in Supercontinuum Technologies II
Coffee Break & Exhibit Only Time, Exhibit Hall									
SW4J • Advanced Microscopy Methods	SW4K • Fiber Lasers and Amplifiers	SW4L • NIR Dual Combs	SW4M • Application of Microresonator Frequency Combs	SW4N • Ultrafast Phenomena	AW4O • Novel Laser Characterization	JW4P • Symposium on New Advances in Adaptive Optics Retinal Imaging II	SW4Q • Novel Semiconductor Emitters		
Conference Reception, Grand Ballroom									

Agenda of Sessions — Thursday, 17 May

	Executive Ballroom 210A	Executive Ballroom 210B	Executive Ballroom 210C	Executive Ballroom 210D	Executive Ballroom 210E	Executive Ballroom 210F	Executive Ballroom 210G	Executive Ballroom 210H
07:30–18:00	Registration, <i>Concourse Level</i>							
08:00–10:00	STh1A • Novel Structures and Devices	STh1B • Integrated Photonic Sensors	STh1C • Machine Learning for Communication	FTh1D • Nonlinear Metamaterials and Metasurfaces	FTh1E • Nonlinear Optics in Microresonator Systems	FTh1F • Novel Phenomena in van der Waals Heterostructure	FTh1G • Integrated Quantum Sources	FTh1H • Quantum Interference, Imaging and Spectroscopy
10:00–15:00	Exhibition Open, <i>Exhibit Hall</i>							
10:15–13:00	Technology Transfer Program, <i>Exhibit Hall Theater</i>							
10:00–11:30	Coffee Break & Exhibit Only Time, <i>Exhibit Hall</i>							
11:30–13:00	JTh2A • Poster Session III, <i>Exhibit Hall</i>							
12:30–14:00	Exhibit Hall Free Lunch							
14:00–16:00	STh3A • Photonic Crystals	STh3B • Networks on a Chip	JTh3C • Symposium on Integrated Sources of Non-Classical Light: Perspectives and Challenges I	JTh3D • Symposium on Advances in Integrated Microwave Photonics I	FTh3E • Non-diffracting and Vortex Beams	STh3F • Mid-IR Nonlinear Devices	STh3G • Quantum Information Processing on Photonic Nanostructures	ATh3H • Control of Quantum Optical and Opto-mechanical Systems
16:00–16:30	Coffee Break, <i>Concourse Lobby</i>							
16:30–18:30	STh4A • Waveguide Structures	STh4B • On-chip and Offchip Coupling Schemes	JTh4C • Symposium on Integrated Sources of Non-Classical Light: Perspectives and Challenges II	JTh4D • Symposium on Advances in Integrated Microwave Photonics II	FTh4E • Multimode Nonlinear Fiber Optics	STh4F • Optical Parametric Oscillators	FTh4G • Cats and Kets	FTh4H • Nanophotonic Emitters, Detectors and Modulators
18:30–20:00	Dinner Break (<i>on your own</i>)							
18:30–20:00	Emerging Trends in Nonlinear Optics – A Review of CLEO: 2018							
20:00–22:00	Postdeadline Paper Sessions, <i>Location TBD</i>							

Meeting Room 211 B/D	Meeting Room 212 A/C	Meeting Room 212 B/D	Marriott, Salon I & II	Marriott, Salon III	Marriott, Salon IV	Marriott, Salon V	Marriott, Salon VI	Marriott, Willow Glen
Registration, <i>Concourse Level</i>								
STh1I • Novel Fabrication Methods	STh1J • OCT & Biomedical Imaging	FTh1K • Optical Near-field and Thermal Imaging	STh1L • MIR to the THz Dual Combs	FTh1M • Nonlinear Dynamics in Resonators and Fibers	STh1N • Ultrafast Applications	ATH1O • Trace Gas Detection	FTh1P • Engineering and Metrology of Thermal Radiation	ATH1Q • A&T Topical Review on Neurophotonics I
Exhibition Open, <i>Exhibit Hall</i>								
Technology Transfer Program, <i>Exhibit Hall Theater</i>								
Coffee Break & Exhibit Only Time, <i>Exhibit Hall</i>								
JTh2A • Poster Session III, <i>Exhibit Hall</i>								
Exhibit Hall Free Lunch								
STh3I • Integrated Photonic Platforms	STh3J • Optofluidics & High Throughput Fluorescence	STh3K • Multimode Fiber Optics	STh3L • Imaging and Ranging	FTh3M • Chirality Vortices and Topological Effects	STh3N • Ultrafast Metrology I	ATH3O • Novel Spectroscopic Approaches I	ATH3P • Sensing in Extreme Environments & Organic Optical Materials	ATH3Q • A&T Topical Review on Neurophotonics II
Coffee Break, <i>Concourse Lobby</i>								
STh4I • Mid-IR Optoelectronics	FTh4J • Random and Alternative Materials Metasurfaces	STh4K • Long Wavelength Fiber Sources	STh4L • Optical Sensing in Combustion	FTh4M • Functional Nanophotonics Using Metasurfaces	STh4N • Ultrafast Metrology II	ATH4O • Novel Spectroscopic Approaches II	ATH4P • Environmental Greenhouse Gas Sensing	ATH4Q • A&T Topical Review on Scientific and Commercial Progress in Semiconductor Laser Technology I
Dinner Break (<i>on your own</i>)								
Emerging Trends in Nonlinear Optics – A Review of CLEO: 2018								
Postdeadline Paper Sessions, <i>Location TBD</i>								

Agenda of Sessions — Friday, 18 May

	Executive Ballroom 210A	Executive Ballroom 210B	Executive Ballroom 210C	Executive Ballroom 210D	Executive Ballroom 210E	Executive Ballroom 210F	Executive Ballroom 210G	Executive Ballroom 210H
07:30–15:30	Registration, <i>Concourse Level</i>							
08:00–10:00	SF1A • Si Photonics	FF1B • Quantum Enhanced Measurements	JF1C • Symposium on Lasers in Accelerator Science and Technology I	FF1D • Ultrafast Spectroscopy of 2D Materials	FF1E • THz Generation and Novel Phenomena	FF1F • Spatial and Temporal Control of Light Using Metasurfaces	SF1G • Surface Emitting Lasers	FF1H • Nanophotonic Strategies for Controlling Light-Matter Interaction
10:00–10:30	Coffee Break, <i>Concourse Level</i>							
10:30–12:30	SF2A • Nonlinear Photonics in Integrated Structures	JF2B • Symposium on Emerging Quantum Sensing Techniques and Applications I	JF2C • Symposium on Lasers in Accelerator Science and Technology II	FF2D • THz Electrodynamics and control of Electronic Degrees of Freedom	FF2E • Novel Nonlinear Optical Materials	FF2F • Fundamental Nanophotonics: Sensing and Infrared Applications	SF2G • Mid-infrared Semiconductor Lasers	FF2H • Interference and Localization Phenomena in Complex Media
12:30–14:00	Lunch Break (<i>on your own</i>)							
14:00–16:00	SF3A • Integrated Photonics (III-V Heterogeneous)	JF3B • Symposium on Emerging Quantum Sensing Techniques and Applications II	FF3C • Optimization and Design of Metasurfaces	FF3D • Spectroscopy of Low Dimensional Systems	FF3E • Photon-Phonon Interactions and Cooling	FF3F • Optomechanical Interactions and Single Particle Tracking	SF3G • Quantum Cascade Lasers	FF3H • Wavefront Shaping in Complex Media

Meeting Room 211 B/D	Meeting Room 212 A/C	Meeting Room 212 B/D	Marriott, Salon I & II	Marriott, Salon III	Marriott, Salon IV	Marriott, Salon V	Marriott, Salon VI	Marriott, Willow Glen
<i>Registration, Concourse Level</i>								
SF1I • Perovskites and Organics	SF1J • Metasurfaces	SF1K • Hollow Core Fibers		AF1M • Fiber-Optic Based Sensing	SF1N • Ultrafast Mid-IR Sources		FF1P • Attosecond and X-Ray Spectroscopy	AF1Q • A&T Topical Review on Scientific and Commercial Progress in Semiconductor Laser Technology II
<i>Coffee Break, Concourse Level</i>								
SF2I • Electrooptic and Nanophotonic Materials	SF2J • Cavity Optomechanics	SF2K • Novel Fiber Technology	FF2L • Polaritons in 2D Materials	AF2M • Imaging & Microscopy	SF2N • Ultrafast Oscillators		FF2P • High-order Harmonic Generation in Solids	AF2Q • A&T Topical Review on Time-Stretch Technology: Principles and Applications I
<i>Lunch Break (on your own)</i>								
SF3I • Materials for Fiber and Solid State Lasers	SF3J • Mid IR Sensing and Optical Forces	SF3K • Mode-Locked Fiber Lasers		AF3M • Instruments and Components for Spectroscopy	SF3N • Ultrafast Pulse Manipulation		FF3P • Strong-field Physics in Solids	AF3Q • A&T Topical Review on Time-Stretch Technology: Principles and Applications II