2025 Frontiers in Optics + Laser Science
26–30 October 2025

Colorado Convention Center, Denver, Colorado, USA

Frontiers in Optics + Laser Science will be presented as an in-person event with on-demand content.

Mountain Time (UTC –06:00)

Agenda of Sessions — Sunday, 26 October

09:00–17:00	**Demystifying Quantum**
13:00–17:00	**Registration,** *Concourse E, Mile-High Pre-Function*

Monday, 27 October

Mountain Time (MT, UTC –06:00)	FiO Room 2A	FiO Room 1A	FiO Room 1B	FiO Room 1C	FiO Room 1D	LS Room 1E
07:00–17:30	**Registration,** *Concourse E, Mile-High Pre-Function*					
08:00–09:00	**FM1A • Virtual Reality and Augmented Reality Theme: VR and Augmented Vision I**	**FM1B • Computational Methods in Imaging and Sensing**	**FM1C • Space-Based Imaging and Optical Processing**	**FM1D • Integrated Photonic Devices and Subsystems I**	**FM1E • Light-Matter Interactions**	**LM1F · Anderson Dissertation Award Presentations**
09:00–09:15	**Break**					
09:15–10:00	**FM2A • FiO Machine Learning Visionary Session,** *Room 2A*					
10:00–12:00	**Optica Publishing Group Meet the Journal Editors,** *Optica Member Lounge*					
10:00–10:30	**Coffee Break,** *Mile High Pre-Function*					
10:30–11:30	**Optica Foundation Challenge: Monitoring Health,** *Room 2B*					
10:30–12:30	**FM3A • Quantum Technologies Theme: From Quantum Computing Hardware to Quantum Error Mitigation**	**FM3B • Machine Learning Theme: Machine Learning I**	**FM3C • Novel Displays and Diffractive Optics**	**FM3D • Integrated Photonic Devices and Subsystems II**	**FM3E • Computational and Transformation Optics**	**LM3F • Nanophotonics and Unconventional Photonics**
11:30–12:30	**Optica Foundation Challenge: The Future of Optical Connections for Information Symposium,** *Room 2B*					
12:00–18:00	**Laser Science Undergraduate Symposium,** *Room 3B* **Lunch Break (on your own)** (12:30–14:00) **Environmental Sensing Technical Group Special Talk,** *Room 1C* (12:45–13:45) **Optical Materials Studies Technical Group Panel Discussion,** *Room 1D* (12:45–13:45)					
14:00–15:30	**Optica Foundation Challenge: Improving Diagnostic and Surgical Outcomes Symposium,** *Room 2B*					
14:00–15:30	**FM4A • Quantum Technologies Theme: Applications of Quantum Sensors: From Neuroscience to Gravitational Waves**	**FM4B • Virtual Reality and Augmented Vision Theme: New Technologies** (Begins at 13:30)	**FM4C • Advanced Microscopy**	**FM4D • Highly Integrated Photonic Platforms**	**FM4E • Nanophotonics**	**LM4F • Excitons and Ultrafast Dynamics in 2D Materials**
15:30–16:00	**Coffee Break,** *Mile High Pre-Function*					
15:30–17:00	**Optica Foundation Meet the Winners Happy Hour,** *Room 2B*					
16:00–18:00	**FM5A • Quantum Technologies Theme: From Quantum Networks to Exploiting Quantum Light**	**FM5B • Virtual Reality and Augmented Vision Theme: New Technologies II**	**FM5C • Ultrafast Optical Interactions**	**FM5D • Novel Imaging Approaches**	**FM5E • Novel Devices and Methods for Optical Transmitters and Receivers** (ends at 18:15)	**LM5F • Excitons, Polaritons, and Nanolasers**
18:30–19:30	**Lightening Laser Science Session,** *Room 3C*					
17:30–21:00	**FiO+ LS Awards Ceremony and Reception** *(Invitation Only),* *Denver Museum of Art*					

Key to Conference Abbreviations

F – Frontiers in Optics L – Laser Science Sp – Special Event J – Joint Session

Current as of 25 September. The updated schedule is available in the mobile app, and the online schedule.

Agenda of Sessions — Tuesday, 28 October

Mountain Time (MT, UTC –06:00)	FiO Room 2A	FiO Room 1A	FiO Room 1B	FiO Room 1C	FiO Room 1D	LS Room 1E
07:30–18:30	**Registration,** *Concourse E, Mile-High Pre-Function*					
08:00–09:00	**FTu1A • Machine Learning Theme: Machine Learning II**	**FTu1B • All-photonic Quantum Platforms**	**FTu1C • Structured Photons** (ends at 08:45)	**FTu1D • Optical Engineering**	**FTu1E • State of the Art Space Division Multiplexing Optical Fiber Links**	**LTu1F • Collective Excitations and QED**
09:00–09:15	**Break**					
09:15–10:00	**FTu2A • FiO Virtual Reality and Augmented Vision Visionary Session,** *Room 2A Mile High*					**LTu2B • Laser Science Visionary Session I,** *Room 3B*
10:00–10:30	**Coffee Break with Exhibitors,** *Exhibit Hall, Four Seasons Ballroom* Sponsored by *American Elements, American Institute of Physics, Meta, Optimax Systems Inc., and PerkinElmer*					
10:00–16:00	**Science + Industry Showcase,** *Theater Four Seasons Ballroom*			**Science + Industry Showcase,** *Exhibit Hall, Four Seasons Ballroom*		
	JTu3A • Joint Plenary Session I, 10:30–11:30 **The Future of AI in the Design of Optics and Photonics,** 12:30–13:45 **What's Needed for Optics in Augmented and Virtual Reality,** 14:00-15:15			**Hall Hours** 10:00–17:30 **Career Zone, Booth 407,** 10:00–17:30 **Optica Booth, 307,** 10:00–15:30 **JTu4A • Poster Session I,** 11:30–13:00 **Lunch with Exhibitors,** 12:00–14:00 **JTu5A • Poster Session II,** 14:00–15:30		
11:30–12:30	**Quantum Frontiers: Collaboration, Competition, and Convergence in Sensing and Communication,** *Room 1D* **Polarization Management and Propagation Technical Group Special Talk,** *Room 1C*					
15:00–15:30	**Coffee Break with Exhibitors,** *Exhibit Hall, Four Seasons Ballroom* Sponsored by *American Elements, American Institute of Physics, Meta, Optimax Systems Inc., and PerkinElmer*					
15:30–17:00	**FTu6A • Machine Learning Theme: Machine Learning III** (ends at 16:30)	**FTu6B • Virtual Reality and Augmented Vision Theme: VR and Augmented Vision II** (ends at 17:30)	**FTu6C • Quantum Sensing and Imaging**	**FTu6D • Frontiers in OCT**	**FTu6E • Advances in Optical Fiber Design and Methods**	**LTu6F • Coupling and Dynamics in Materials**
17:00–17:15	**Break**					
17:15–18:30	**JTu6A • Joint Postdeadline Session,** *Room 2A*					
18:30–21:00	**FiO + LS Conference Reception,** *Mile-High Ballroom*					

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Agenda of Sessions — Wednesday, 29 October

Mountain Time (MT, UTC –06:00)	FiO Room 2A	FiO Room 1A	FiO Room 1B	FiO Room 1C	FiO Room 1D	LS Room 1E
07:30–18:00	**Registration,** *ConcourseE, Mile-High Pre-Function*					
08:00–09:00	**FW1A • AI and Data-driven for Imaging**	**FW1B • Nonlinear and Topological Photonics**	**FW1C • Quantum Computing** (ends at 08:45)	**FW1D • Manufacturing**	**FW1E • Ultrafast Lasers and Applications I**	**LW1F • Quantum Sensing and Hybrid Quantum Systems**
9:00	**Break**					
09:15–10:00	**FW2A · FiO Space Optics Visionary I,** *Room 2A Mile High*					**LW2B · Laser Science Visionary Session II,** *Room 3B*
10:00–10:30	**Coffee Break with Exhibitors,** *Exhibit Hall, Four Seasons Ballroom* Sponsored by *American Elements, American Institute of Physics, Meta, Optimax Systems Inc., and PerkinElmer*					
10:00–15:30	**Science + Industry Showcase,** *Theater Four Seasons Ballroom*			**Science + Industry Showcase,** *Exhibit Hall, Four Seasons Ballroom*		
	JW3A · Joint Plenary Session II, 10:30–11:30 **The Space Optics Industry: Perspectives and Opportunities,** 12:45 13:15 **Quantum Advantage: Turning Theory into Transformative Technology,** 14:00-15:15			**Hall Hours** 10:00–17:30 **Career Zone, Booth 407,** 10:00–15:30 **Optica Booth, 307,** 10:00–17:30 **JW4A · Poster Session I,** 11:30–13:00 **Lunch with Exhibitors,** 11:45–14:00 **JW5A · Poster Session II,** 14:00–15:30		
12:30–14:00	**Holography and Diffractive Optics Technical Group Networking Lunch and Special Talk,** *Room 2C*					
15:00–15:30	**Coffee Break with Exhibitors,** *Exhibit Hall, Four Seasons Ballroom* Sponsored by *American Elements, American Institute of Physics, Meta, Optimax Systems Inc., and PerkinElmer*					
15:30–17:00	**FW6A • Space Optics Theme: Earth-Sensing LIDARs**	**FW6B • Ultrafast Lasers and Applications II ·**	**FW6C • Integrated Photonics**	**FW6D • Machine Learning and Quantum Technology**	**FW6E • Next-Generation Optical Fiber Transmission Systems and Networks**	**LW6F • Quantum Optics and Silicon Quantum Photonics**
17:00–17:30	**Break**					
17:30–19:00	**FW7A • Space Optics Theme: Space-Based Laser Communications** (ends at 18:30)	**FW7B • Hybrid Integrated Quantum Photonic Systems**	**FW7C • Light-matter Interactions**	**FW7D • Advanced Sensing Technologies**	**FW7E • Frequency Combs, High-Harmonic Generation, and Attoscience**	**LW7F • Quantum Science with NV Centers, Neutral Atoms, and Trapped Ions**
19:30–20:30	**Applied Spectroscopy Speed Networking,** *Room 2C*					

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Agenda of Sessions — Thursday, 30 October

Mountain Time (MT, UTC –06:00)	FiO Room 2A	FiO Room 1A	FiO Room 1B	FiO Room 1C	FiO Room 1D	LS Room 1E
07:30–11:00	**Registration,** *Concourse E, Mile-High Pre-Function*					
08:00–09:00	**FTh1A • Space Optics Theme: Space-Based Optical Remote Sensing**	**FTh1B • Free Space and Quantum Optical Communication**	**FTh1C • Quantum Correlations**	**FTh1D • Optoelectronic Sensor Systems**	**FTh1E • Structured Light I**	**LTh1F • Strong Fields and High-order Harmonic Generations**
09:00–09:15	**Break**					
09:15–10:00	**FTh2A • FiO Space Optics Visionary Session II,** *Room 2A Mile High*					**LTh2B • Laser Science Visionary Session III,** *Room 3B*
10:00–10:30	**Coffee Break,** *Mile-High Pre-Function*					
10:30–12:30	**FTh3A • Space Optics Theme: Advanced Space Optics**	**FTh3B • Measurement Techniques and Micro and Nano Technology**	**FTh3C • Ultrafast Photonics**	**FTh3D • Image Acquisition, Optical Processing and Displays**	**FTh3E • Structured Light II**	**LTh3F • Ultrafast Science and Technology,** *Mile-High Pre-Function*

Friday, 31 October

09:00–13:30	**JILA Lab Tour** *(Buses from venue)*

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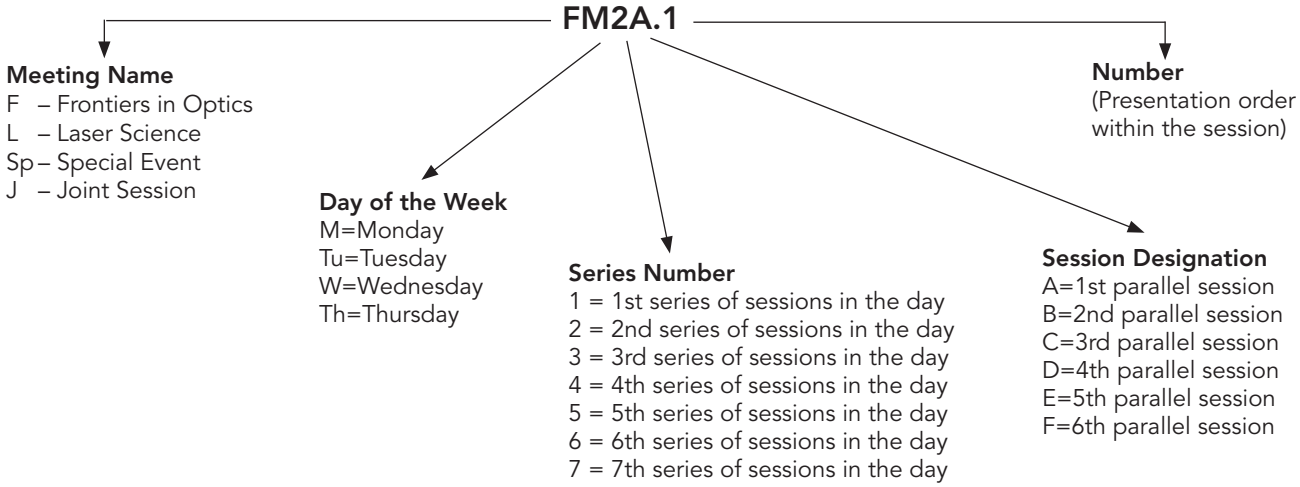
Explanation of Session Codes



The first letter of the code signifies the meeting. The second letter of the code denotes the day of the week (Monday=M, Tuesday=Tu, etc.). The third 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 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 FM2A.1 indicates that this FiO paper 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 first paper (1) presented in that session.

Online Access to Technical Digest

Full Technical Attendees have both EARLY and FREE perpetual access to the digest papers through the Optica Publishing Group platform.

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