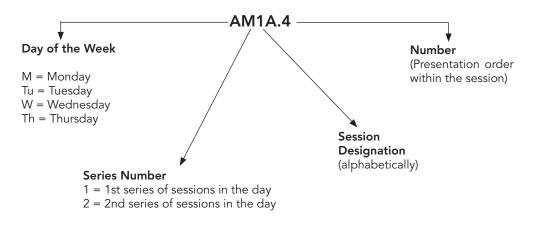
Explanation of Session Codes



The first letter of the code signifies the topical (A=AIS, Q-QSM, S=Sensors). The second letter of the code denotes the day of the week (Monday=M, Tuesday=Tu, Wednesday=W, Th=Thursday). 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 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 AM1C.4 indicates that this AIS paper is being presented on Monday (M) in the first series of sessions (1), and is the third parallel session.

The information in this program is as of 08 July 2025. All times reflect Pacific Time (UTC-07:00). Please consult the conference app for the latest changes.

Technical Registrants: Download digest papers by visiting optica.org/SensingOPC and clicking on the "Download Technical Digest Papers" from the right column navigation on the home page. As access is limited to Full Technical Conference attendees only, you will be asked to validate your credentials by entering the same login email address and password provided during the conference registration process.

Recorded sessions are also available 24 hours after the session by navigating to the Schedule tab. Select a session and click the "Watch Recorded Session" button.

2025 Optica Sensing Congress

20-24 July 2025

Hilton Long Beach, Long Beach, California, USA

Optica Sensing Congress is presented as in-person events with on-demand

content.

Pacific Time (PT, UTC-07:00)

Agenda of Sessions - Monday, 21 July

Pacific Time (PT, UTC- 07:00)	Atlantic I	Pacific I	International I, II	Atlantic II	Pacific II	
	AIS	QSM	SENSORS	SENSORS	MIXED	
07:00–17:30	Registration, Foyer					
08:00–09:30	AM1A • Disease in the Industrial Era I: Techniques	QM1B • Quantum Sensor Networks and Distributed Entanglement	SM1C • THz Sensing	SM1D • Fourier Transform Spectroscopy I	SM1E • Point Optical Fiber Sensors	
09:30–16:30	Exhibit Hours, International III, IV, V Coffee Break with Exhibitors, 09:30–10:00 Coffee break sponsored by American Elements					
10:00–11:30	AM2A • Disease in the Industrial Era II: Essential Components and Elements	QM2B • Quantum Noise and Squeezed Light Interferometry	SM2C • Al-Assisted Sensing	SM2D • Optics and Photonics for Sensing the Environment I	AM2E • Agri- Food-Pharma- Precision-Photonics for Industrial Optimization I	
13:00–14:30	AM3A • HOT TOPICS in Industrial Sensing I: Trends	QM3B • Integrated Photonics for Quantum Sensing	SM3C • Laser-Based Chemical Sensing	SM3D • Hyperspectral/ Multispectral Imaging and Sounding of the Environment I (ends at 14:45)	SM3E • Quasi- Distributed and Point Optical Fiber Sensors	
14:30–16:00	JM4A • Joint Posters Session I, Coffee with Exhibitors, International III, IV, V Coffee break sponsored by American Elements					
16:00–17:30	SpE1 • GEMM Panel, International I, II					

Schedule subject to change. Please check the Congress app for the most current schedule.

- A = Applied Industrial Spectroscopy (AIS)
- J = Joint Session
- Q = Quantum Sensing and Metrology (QSM)
- S = Optical Sensors (Sensors)
- Sp = Special Event

Agenda of Sessions — Tuesday, 22 July

Pacific Time (PT, UTC- 07:00)	Atlantic I	Pacific I	International I, II	Atlantic II	Pacific II	
	AIS	QSM	SENSORS	MIXED	MIXED	
07:30–18:30	Registration, Foyer					
08:00–09:30	ATu1A • Air and Climate Effect of Industrial Processes: Elements	QTu1B • Compact Cold-Atom Sensors	STu1C • Navigation and Ranging	STu1D • Fourier Transform Spectroscopy II	STu1E • Hyperspectral/ Multispectral Imaging and Sounding of the Environment II	
09:30–16:00	Exhibit Hours, International III, IV, V Coffee Break with Exhibitors, 09:30–10:00 Coffee break sponsored by American Elements					
10:00–11:45	JTu2A • Joint Plenary Session I, International I, II					
13:00–15:00	ATu3A • Extraction Industries and Circular Economy	QTu3B • Quantum Magnetometers and RF Sensors	STu3C • Distributed Optical Fiber Sensors I	ATu3D • Energy and Resource Optimization Towards Green Industry I: Techniques	STu3E • Optics and Photonics for Sensing the Environment II	
15:00–15:30	Coffee Break with Exhibitors, International III, IV, V Coffee break sponsored by American Elements					
15:30–17:00	SpE2 • Industry Panel I, International I, II					
17:00–18:30	Congress Reception, Catalina					

Schedule subject to change. Please check the Congress app for the most current schedule.

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Agenda of Sessions - Wednesday, 23 July

Pacific Time (PT, UTC- 07:00)	Atlantic I	Pacific I	International I, II	Atlantic II	Pacific II	
	AIS	QSM	MIXED	SENSORS	MIXED	
07:30–17:30	Registration, Foyer					
08:00–10:00	AW1A • Agri- Food-Pharma- Precision-Photonics for Industrial Optimization II	QW1B • Correlated Photons and Nonclassical Light for Quantum Sensing	SW1C • Chem/Bio Sensors I	SW1D • Optics and Photonics for Sensing the Environment III: : Applications of Dual Comb Spectroscopy (begins at 08:30)	SW1E • Distributed Optical Fiber Sensors II	
10:00–16:00	Exhibit Hours, International III, IV, V Coffee Break with Exhibitors, 10:00–10:30 Coffee break sponsored by American Elements					
10:30–11:30	JW2A • Joint Plenary Session II, International I, II					
13:00–14:30	AW3A • Energy and Resource Optimization Towards Green Industry II: THz Technology	QW3B • Quantum Learning and Entanglement Protocols (ends at 14:45)	SW3C • Chem/Bio Sensors II	SW3D • Optics and Photonics for Sensing the Environment IV	SW3E • Hyperspectral/ Multispectral Imaging and Sounding of the Environment III	
14:30–15:00	Coffee Break with Exhibitors, International III, IV, V Coffee break sponsored by American Elements					
15:00–17:30	SpE3 • Industry Panel II and Social Engagement, International I, II					

Schedule subject to change. Please check the Congress app for the most current schedule.

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- S = Optical Sensors (Sensors)
- Sp = Special Event

Agenda of Sessions — Thursday, 24 July

Pacific Time (PT, UTC- 07:00)	Atlantic I	Pacific I	International I, II	Atlantic II	Pacific II		
	AIS	QSM	SENSORS	SENSORS	SENSORS		
07:30–17:30	Registration, Foyer						
08:00–09:30	SpE4 • Joint Panel: Precision Versus Price-Point: Why and How of the Sensing Domain, International I, II						
09:30–15:30	Exhibit Hours, International III, IV, V Coffee Break with Exhibitors, 10:00–10:30 Coffee break sponsored by American Elements						
10:00-11:00	SpE5 • Industry Panel	IIIA, Pacific I	SpE6 • Industry Panel IIIB, Pacific II				
11:00-12:00	JTh1A • Joint Postdeadline Paper Session, International I, II						
13:30–15:00	JTh2A • Joint Posters Session II, Coffee with Exhibitors, International III, IV, V						
15:00–16:30	ATh3A • HOT TOPICS in Industrial Sensing II: Techniques		STh3B • Hyperspectral/ Multispectral Imaging and Sounding of the Environment IV	STh3C • Hyperspectral/ Multispectral Imaging and Sounding of the Environment IV			
16:00–16:30	Coffee Break with Exhibitors, Ariane Foyer Coffee break sponsored by American Elements						
16:30–18:00							
18:00–19:00	Industry Social Engagement Event, Caravelle 1						

Friday, 25 July

10:00-15:30

SiLC Technologies Tour, Monrovia

Schedule subject to change. Please check the Congress app for the most current schedule.

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- J = Joint Session
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- S = Optical Sensors (Sensors)
- Sp = Special Event