

**2024 Optica Imaging Congress and Optica Sensing Congress**  
**15–19 July 2024, Le Centre de Congrès Pierre Baudis, Toulouse, France**

Optica Imaging Congress and Optica Sensing Congress are presented as in-person events with on-demand content.  
 Central European Summer Time (CEST, UTC+02:00)

## Agenda of Sessions — Monday, 15 July

Central European Summer Time (CEST, UTC+02:00)	Ariane 2	Caravelle 2	Ariane 1	Diamant	Guillaumet 1	Spot	Argos	Guillaumet 2
	AIS	COSI	SENSORS	QSM	LACSEA	LACSEA	MIXED	SENSORS
07:00–18:00	Registration, Reception Hall							
10:00–16:30	Exhibit Hall Hours, Ariane Foyer							
08:00–10:00	AM1A • Process Analytical Technology I	CM1B • Imaging Through Scattering Media (ends at 09:45)	AM1C • AIS Panel: Where Does Spectroscopy Aim Next 10 Years: From the Lab to the Market (begins at 08:30)	QM1D • Quantum Sensing with Solid-State Spins I	LM1E • Reacting Flow Diagnostics	LM1F • Chemical Sensing	IM1G • Spectroscopy and Multi-Spectral Sensing	SM1H • Optical Biological and Chemical Sensors I
10:00–10:30	Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
10:30–12:00	AM2A • Process Analytical Technologies II	CM2B • Event Based Sensing / Neuromorphic Sensing		QM2C • Quantum Sensing with Solid-State Spins II	LM2D • IR Sensing	LM2E • Environmental Sensing	AM2F • Disease Detection and Diagnostics	SM2G • Sensors for Real-time Monitoring of Biomarkers for Personalized Medicine Workshop I
12:00–13:30	Lunch on Own							
13:30–15:30	AM3A • Photonics and Sensing	CM3B • Advances in Computational Microscopy I	SM3C • Single-Point Optical Fiber Sensors	QM3D • Quantum Sensing with Solid-State Spins III	LM3E • Advanced Flow Diagnostics	LM3F • Ultrafast Laser Applications	IM3G • Advances in Microscopy I (ends at 15:15)	SM3H • Sensors for Real-time Monitoring of Biomarkers for Personalized Medicine Workshop II
15:30–16:30	JM4A • Joint Poster Session I, Cassiopée Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
16:30–20:00	JM5A • GEMM Panel I: Water Quality and Pollution Monitoring for a Sustainable Future, Caravelle 2 Reception for attendees immediately following the session							

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

### Key to Conference Abbreviations

A = Applied Industrial Spectroscopy (AIS)

C = Computational Optical Sensing and Imaging (COSI)

D = 3D Image Acquisition and Display: Technology, Perception and Applications (3D)

I = Imaging Systems and Applications (IS)

J = Joint Session

L = Laser Applications to Chemical, Security and Environmental Analysis (LACSEA)

O = Adaptive Optics: Methods, Analysis and Application (AO)

P = Propagation Through and Characterization of Atmospheric Oceanic Phenomena (pcAOP)

Q = Quantum Sensing and Metrology (QSM)

RadIT = Radiographic Imaging and Tomography

S = Optical Sensors (Sensors)

Sp = Special Event

# Agenda of Sessions — Tuesday, 16 July

Central European Summer Time (CEST, UTC+02:00)	Ariane 2	Caravelle 2	Ariane 1	Diamant	Guillaumet 1	Spot	Argos	Guillaumet 2
	AIS	COSI	MIXED	QSM	LACSEA	LACSEA	MIXED	SENSORS
07:00–19:00	Registration, Reception Hall							
09:30–15:30	Exhibit Hall Hours, Ariane Foyer							
08:00–09:30	ATu1A • Enabling Technologies I (ends at 09:15)	CTu1B • Advances in Computational Microscopy II (ends at 09:15)	JTu1C • Adaptive Optics and the Atmosphere (Joint AO + pcAOP)	QTu1D • Atomic Clocks (ends at 09:00)	LTu1E • Non-Equilibrium Gas Diagnostics	LTu1F • Mid-IR Gas Sensing	ATu1G • Enabling Technologies II	STu1H • Optical Biological and Chemical Sensors II
09:30–10:00	Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
10:00–12:00	JTU2A • Joint Plenary Session I, Concorde I							
12:00–13:30	Lunch on Own							
12:15–13:15	SpE4 • Optica Laser Systems Technical Group Special Talk and Networking Event, Argos							
13:30–15:00	ATu3A • IR Sources for Industrial Applications (ends at 14:45)	CTu3B • Computational Imaging using Tailored Illumination (ends at 14:45)	STu3C • Distributed Optical Fiber Sensors I	QTu3D • Quantum Electromagnetic Sensing	LTu3E • Advanced Techniques and Special Applications	LTu3F • Image and Data Analysis Techniques (ends at 14:45)	ITu3G • Advances in Biomedical Imaging	STu3H • Optical Biological and Chemical Sensors III
15:00–15:30	Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
15:30–17:00	JTU4A • GEMM Panel II: Sensing Air Quality, Greenhouse Gases, and Wildfires for a Sustainable Future, Caravelle 2							
17:00–17:15	Break							
17:15–18:30	JTU5A • Joint Postdeadline Paper Session (Sensing), Guillaumet 1							

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# Agenda of Sessions — Wednesday, 17 July

INDUSTRY PROGRAMMING								
Central European Summer Time (CEST, UTC+02:00)	Ariane 2	Caravelle 2	Ariane 1	Spot	Guillaumet 1	Argos	Diamant	Guillaumet 2
	AIS	COSI	SENSORS	IS	LACSEA	AO	QSM	3D
07:00–19:00	Registration, Reception Hall							
10:00–16:30	Exhibit Hall Hours, Ariane Foyer							
08:00–10:00	AW1A • Gas Sensing for Environmental and Energy Applications	CW1B • Tomographic Imaging (ends at 09:30)	SW1C • Optical Biological and Chemical Sensors IV (ends at 09:30)	IW1D • Novel Imaging Optics/Systems	LW1E • Sensing Beyond Gas Phase	OW1F • Microscopy and Bioimaging I	QW1G • Enabling Technologies for Integrated Quantum Hardware	DW1H • Deep Learning for 3D Imaging I
10:00–10:30	Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
10:30–12:30	JW2A • Joint Plenary Session II, Concorde 1							
12:30–14:00	Lunch on Own							
14:00–16:00	AW3A • Agriphotonics, Food and Water Safety	CW3B • Ptychography I	SW3C • Distributed and Quasi-Distributed Optical Fiber Sensors	IW3D • Computational Imaging	LW3E • Laser Sensing Applications (ends at 15:45)	OW3F • Ophthalmoscopy I (ends at 15:45)	QW3G • Quantum-Enhanced Sensing I (ends at 15:30)	DW3H • Deep Learning for 3D Imaging II (ends at 15:30)
16:00–16:30	Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
16:30–18:00			JW4A • Optica Imaging Congress Industry Panel: From Benchtop to Marketplace		JW4B • Optica Sensing Congress: Industry Panel I			
18:00–19:30	Congress Reception, Cassiopée							

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# Agenda of Sessions — Thursday, 18 July

INDUSTRY PROGRAMMING								
Central European Summer Time (CEST, UTC+02:00)	Ariane 2	Caravelle 2	Ariane 1	Spot	Guillaumet 1	Argos	Diamant	Guillaumet 2
	MIXED	COSI	SENSORS	IS	pcAOP	AO	MIXED	3D
07:00–17:00	Registration, Reception Hall							
10:00–16:30	Exhibit Hall Hours, Ariane Foyer							
08:00–10:00	LTh1A • Advanced Spectroscopy Techniques	CTh1B • Ptychography II	STh1C • Laser Based Sensors I	ITh1D • QPI and Label Free Microscopy (ends at 09:00)	PTH1E • Measuring and Modeling Propagation Quantities I	OTH1F • Wavefront Correctors	QTh1G • Quantum-Enhanced Sensing II	DTh1H • Sensing and Processing
10:00–11:00	JTh2A • Joint Poster Session II, Cassiopée Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
11:00–12:30	JTh3A • Optica Sensing Congress Industry Panel II, Guillaumet 1							
12:30–14:00	Lunch on Own							
14:00–16:00	CTh4A • Advances in Compressed Sensing (ends at 15:30)	CTh4B • Machine Learned Imaging	STh4C • Terahertz I	ITh4D • Imaging Applications and Devices (General)	PTH4E • Measuring and Modeling Propagation Quantities II	OTH4F • Microscopy and Bioimaging II	RTh4G • RadIT I: Time-Resolved X-Rays	DTh4H • 3D Microscopy and Biomedical I
16:00–16:30	Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
16:30–18:00		CTh5A • Inverse Problems in Imaging	STh5B • Terahertz II (ends at 17:45)	ITh5C • Advances in Microscopy II, Super Resolution (ends at 17:45)	PTH5D • Optical Communication Applications	OTH5E • Ophthalmoscopy II (ends at 17:45)		DTh5F • 3D Microscopy and Biomedical II
18:00–19:00	Industry Engagement Networking Event, Cassiopée							

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# Agenda of Sessions — Friday, 19 July

Central European Summer Time (CEST, UTC+02:00)	Ariane 2	Caravelle 2	Ariane 1	Spot	Guillaumet 1	Argos	Diamant	Guillaumet 2
	COSI	COSI	SENSORS	IS	pcAOP	AO	RadIT	3D
07:00–17:00	Registration, Reception Hall							
10:00–16:30	Exhibit Hall Hours, Ariane Foyer							
08:00–10:00	CF1A • Advances in Lensless Imaging (ends at 09:30)	CF1B • Unconventional Imaging	SF1C • Laser Based Sensors II (ends at 09:30)	IF1D • Advances in Microscopy III (ends at 09:45)	PF1E • Beam-Waves in Turbulence	OF1F • Wavefront Sensing (ends at 09:30)	RF1G • RadIT II: Data Fusion and AI (begins at 09:30)	DF1H • AR/VR and 3D Displays
10:00–11:00	JF2A • Joint Poster Session III, Cassiopée Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
11:00–12:30	JF3A • Joint Postdeadline Paper Session II (Imaging), Guillaumet 1							
12:30–14:00	Lunch on Own							
14:00–16:00	CF4A • Advances in 3D Imaging	CF4B • Super Resolution	SF4C • Distributed Optical Fiber Sensors II	IF4D • Medical Imaging	PF4E • Laser and Beacon Applications (ends at 15:45)	OF4F • AO Methods and Applications	RF4G • RadIT III: Emerging Frontiers (ends at 15:30)	DF4H • 3D Acquisition
16:00–16:30	Coffee Break with Exhibitors, Ariane Foyer Sponsored by American Elements and Laser Components							
16:30–18:00		SF5A • Optical Fiber Sensors (ends at 17:45)					RF5B • RadIT IV: Enabling Materials and Technologies	

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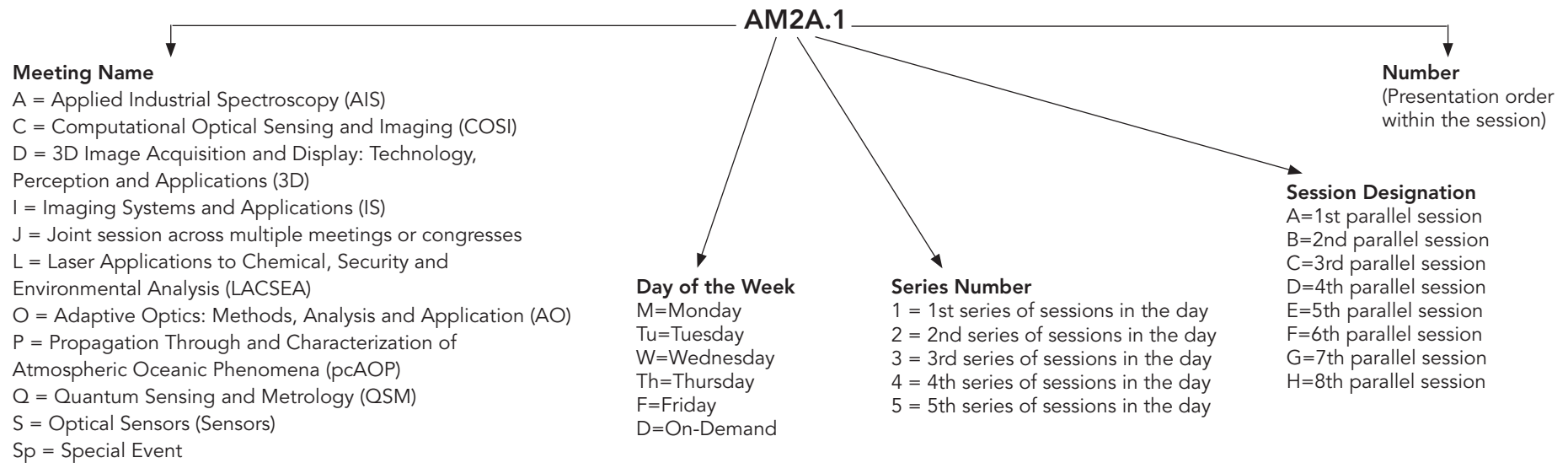
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## Explanation of Session Codes



The first letter of the code signifies the topical. The second letter of the code denotes the day of the week (Sunday=S, 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 AM2A.1 indicates that this AIS 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

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### Topicals

#### 3D Image Acquisition and Display: Technology, Perception and Applications (3D)

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#### Adaptive Optics: Methods, Analysis and Applications (AO)

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### **Imaging Systems and Applications (IS)**

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Chulmin Joo, *Yonsei University, Republic of Korea*

Ho Wai Howard Lee, *University of California, Irvine, USA*

Rajesh Menon, *University of Utah, USA*

Todd Sachs, *Apple Inc., USA*

Torbjorn Skauli, *University of Oslo, Norway*

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Hongki Yoo, *KAIST, Republic of Korea*

### **Laser Applications to Chemical, Security and Environmental Analysis (LACSEA)**

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Kim-Cuong Le, *Lunds Universitet, Sweden*

Xunchen Liu, *Shandong University of Science and Technology, China*

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Jerry Meyer, *U.S. Naval Research Laboratory, USA*

Angelo Sampaolo, *Politecnico di Bari, Italy*

Thomas Seeger, *Universität Siegen, Germany*

Michael Shattan, *National Nuclear Security Administration, USA*

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Zhili Zhang, *University of Tennessee, Knoxville, USA*

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Filiz Yesilkoy, *University of Wisconsin-Madison, USA, Program Chair*

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*Sensors 3: Laser Based Sensors*

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Cullen Bradley, *Exciting Technology LLC., USA*

Nathaniel Ferlic, *Naval Air Warfare Center Aircraft Division, USA*

Samantha Gregory, *Radiance Technologies Inc., USA*

Matthew Kalensky, *Naval Surface Warfare Center Dahlgren Division, USA*

Andrew Lambert, *University of New South Wales, Australia*

Rita Mahon, *U.S. Naval Research Laboratory, USA*

Jack McCrae, *Air Force Institute of Technology, USA*

Andreas Muschinski, *NorthWest Research Associates, USA*



Carrie Noren, *Air Force Research Laboratory, USA*  
Guy Potvin, *Defence Research and Development Canada, Canada*  
Anand Sarma, *IISER Thiruvananthapuram, India*  
Italo Toselli, *Fraunhofer IOSB, Germany*  
Miranda van Iersel, *New Mexico State University, USA*  
Noah Van Zandt, *Air Force Research Laboratory, USA*  
David Voelz, *New Mexico State University, USA*  
Steven Zuraski, *Air Force Research Laboratory, USA*

### **Quantum Sensing and Metrology (QSM)**

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Jennifer Choy, *University of Wisconsin-Madison, USA, Chair*  
Michael Semmlinger, *Hamamatsu Corporation, USA, Program Chair*  
Jean-Philippe Tetienne, *Royal Melbourne Institute of Technology, Australia, Program Chair*  
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Mehran Kianinia, *University of Technology Sydney, Australia*  
Zheshen Zhang, *University of Michigan, USA*

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Sophia Malko, *Princeton Plasma Physics Laboratory, USA*  
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