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	Diamont	Guillaument 1	Spot	Argos	Guillaument 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 (ends at 11:30)		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)
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	Diamont	Guillaument 1	Spot	Argos	Guillaument 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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INDUSTRY PROGRAMMING								
Central European Summer Time (CEST, UTC+02:00)	Ariane 2	Caravelle 2	Ariane 1	Spot	Guillaument 1	Argos	Diamont	Guillaument 2
	AIS	COSI	SENSORS	IS	LACSEA	AO	QSM	3D
07:00–19:00	Registration, *Reception Hall*							
10:30–16:30	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	Guillaument 1	Argos	Diamont	Guillaument 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 (ends at 09:00)	STh1C • Laser Based Sensors I	ITh1D • QPI and Label Free Microscopy (ends at 09:45)	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, *Guillaument 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

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Central European Summer Time (CEST, UTC+02:00)	Ariane 2	Caravelle 2	Ariane 1	Spot	Guillaument 1	Argos	Diamont	Guillaument 2
	COSI	COSI	SENSORS	IS	pcAOP	AO	RadIT	3D
07:00–17:00	Registration, *Reception Hall*							
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 09:30)	PF1E • Beam-Waves in Turbulence	OF1F • Wavefront Sensing (ends at 09:15)	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 (ends at 15:45)	PF4E • Laser and Beacon Applications (ends at 15:45)	OF4F • AO Methods and Applications (ends at 15:45)	RF4G • RadIT III: Emerging Frontiers (ends at 15:30)	DF4H • 3D Acquistion
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	
18:00–18:30	**Closing Toast,** *Ariane Foyer*							

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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)
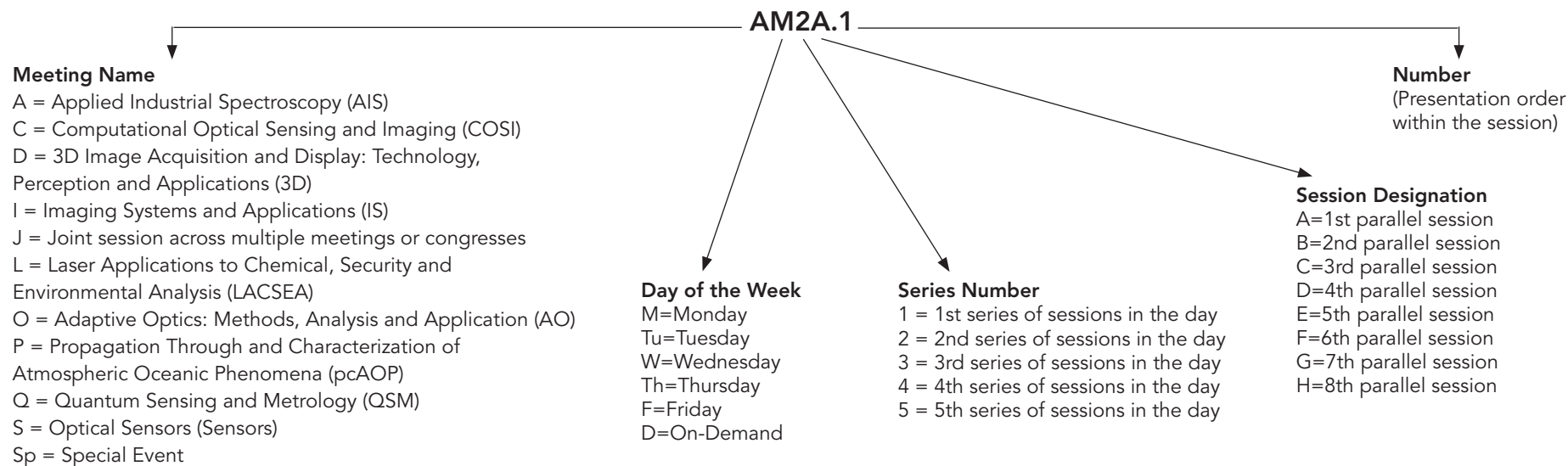O = Adaptive Optics: Methods, Analysis and Application (AO)
P = Propagation Through and Characterization of Atmospheric Oceanic Phenomena (pcAOP)

Q = Quantum Sensing and Metrology (QSM)
S = Optical Sensors (Sensors)
Sp = Special Event

Explanation of Session Codes

AM2A.1

Meeting Name
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 across multiple meetings or congresses
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)
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Day of the Week
M=Monday
Tu=Tuesday
W=Wednesday
Th=Thursday
F=Friday
D=On-Demand

Series Number
1 = 1st series of sessions in the day
2 = 2nd series of sessions in the day
3 = 3rd series of sessions in the day
4 = 4th series of sessions in the day
5 = 5th series of sessions in the day

Number
(Presentation order within the session)

Session Designation
A=1st parallel session
B=2nd parallel session
C=3rd parallel session
D=4th parallel session
E=5th parallel session
F=6th parallel session
G=7th parallel session
H=8th parallel session

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.

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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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Applied Industrial Spectroscopy (AIS)

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Cinzia Sada, *Universita degli Studi di Padova, Italy*
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Chao Zuo, *Nanjing University of Science and Technology, China*

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Olivier Francois, *Huawei Technologies, Finland*
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Laser Applications to Chemical, Security and Environmental Analysis (LACSEA)

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Jerry Meyer, *U.S. Naval Research Laboratory, USA*
Angelo Sampaolo, *Politecnico di Bari, Italy*
Thomas Seeger, *Universität Siegen, Germany*
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Li Ting, *Beijing University of Technology, China*
Zhili Zhang, *University of Tennessee, Knoxville, USA*

Optical Sensors (Sensors)

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Paul Pellegrino, *U.S. Army Research Laboratory, USA*, **Program Chair**
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Sachin Srivastava, *Indian Institute of Technology Roorkee, India*
Nikita Toropov, *University of Southampton, UK*
Peter Zijlstra, *Eindhoven University of Technology, Netherlands*

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Ali Masoudi, *University of Southampton, UK*, **Subcommittee Chair**

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Marcelo Soto, *Universidad Técnica Federico Santa María, Chile*
Carmen Vazquez, *Universidad Carlos III de Madrid, Spain*

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Propagation Through Characterization of Atmospheric and Oceanic Phenomena (pcAOP)

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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, *University of Dayton, 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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