# Agenda of Sessions — Sunday, 10 July

| Pacific Daylight Time (PDT, UTC - 07:00) | |
|---|---|
| 15:00–18:00 | **Registration,** *Regency Foyer, Balmoral, Windsor* |

## Monday, 11 July

| Pacific Daylight Time (PDT, UTC - 07:00) | Regency A | Regency B | Regency C | Regency D | Plaza A | Plaza B |
|---|---|---|---|---|---|---|
| | **Computational Optical Sensing and Imaging** | **Laser Applications to Chemical, Security and Environmental Analysis** | **Optical Sensors** | **Optical Sensors** | **Optics and Photonics for Sensing the Environment** | **Applied Industrial Spectroscopy** |
| 07:30–17:30 | **Registration,** *Regency Foyer, Balmoral, Windsor* | | | | | |
| 08:00–10:00 | CM1A • Advances in Holography | LM1B • Imaging Techniques | SM1C • Optical Fibre Sensors: Structural Health Monitoring and Sensing in Harsh Environments | SM1E • Laser Based Sensors I | EM1D • Photonic Integrated Sensors | AM1F • Agri-Photonics I (ends at 09:15) |
| 10:00–10:30 | **Coffee Break and Networking,** *Regency Foyer, Balmoral, Windsor* | | | | | |
| 10:30–12:30 | CM2A • Phase Imaging and Phase Retrieval | LM2B • Ultrafast Laser Applications | SM2C • Distributed and Gratings-Based Fibre Sensors | JM2E • Optical and Photonic Technologies Addressing the COVID-19 Pandemic Needs (Joint AIS and Sensors) | EM2D • Atmospheric Monitoring | AM2F • Energy and Extraction Industries |
| 12:30–14:00 | Lunch (On Own) | | | | | |
| 14:00–16:00 | CM3A • Non-Line-of-Sight (NLoS) Imaging and Imaging through Scattering Media | LM3B • Remote and Environmental Sensing (Joint Theme ES and LACSEA Remote Sensing) | SM3C • Terahertz Sensors I | SM3E • Biomarker Sensing | EM3D • Dual Frequency Comb Spectroscopy (Joint Theme ES and LACSEA on Combs) (ends at 15:45) | AM3F • Agri-Photonics II (ends at 15:30) |
| 16:00–16:30 | **Coffee Break and Networking,** *Regency Foyer, Balmoral, Windsor* | | | | | |
| 16:30–18:30 | CM4A • Emerging Themes in Computational Imaging (ends at 18:15) | LM4B • Infrared Sensing and Frequency Combs (Joint Theme ES and LACSEA on Combs) | SM4C • Solid-State Quantum Sensing (ends at 18:15) | SM4E • Infrared and Raman Sensing | EM4D • Remote Sensing (Joint Theme ES and LACSEA on Remote Sensing) | SpE 1 • Agri-Photonics Panel Discussion |

**Key to Conference Abbreviations**

**Imaging Topicals**
3 = 3D Image Acquisition and Display: Technology, Perception and Applications
O = Adaptive Optics: Methods, Analysis and Applications
C = Computational Optical Sensing and Imaging
I = Imaging Systems and Applications
P = Propagation Through and Characterization of Atmospheric Oceanic Phenomena

**Sensing Topicals**
A = Applied Industrial Spectroscopy
L = Laser Applications to Chemical, Security and Environmental Analysis
E = Optics and Photonics for Sensing the Environment
S = Optical Sensors

# Agenda of Sessions — Tuesday, 12 July

| Pacific Daylight Time (PDT, UTC - 07:00) | Regency A<br><br>Computational Optical Sensing and Imaging | Regency B<br><br>Laser Applications to Chemical, Security and Environmental Analysis | Regency C<br><br>Optical Sensors | Regency D<br><br>Optical Sensors | Plaza A<br><br>Optics and Photonics for Sensing the Environment | Plaza B<br><br>Applied Industrial Spectroscopy | Plaza C<br><br>3D Image Acquisition and Display: Technology, Perception and Applications | Georgia A<br><br>Propagation Through and Characterization of Atmospheric Oceanic Phenomena | Georgia B<br><br>Imaging Systems and Applications |
|---|---|---|---|---|---|---|---|---|---|
| 07:30–17:30 | Registration, *Regency Foyer, Balmoral, Windsor* | | | | | | | | |
| 07:45–09:30 | JTu1A • Joint Introductory Remarks and Plenary Session I (Sensing Congress)<br>*Regency DEF* | | | | | | | | |
| 09:30–11:00 | JTu2A • Joint Poster Session I (On-Site)<br>Coffee Break and Exhibits<br>*Regency Foyer, Balmoral, Windsor* | | | | | | | | |
| 09:45–10:45 | | | | | | | | SpE4 • Recent Advances in Free-Space Optical Communications | |
| 11:00–12:30 | CTu3F • Optical Computing and Phase Retrieval | LTu3B • Combustion Diagnostics I | STu3C • Terahertz Sensors II (ends at 12:15) | SpE2 • Quantum Sensing Panel | ETu3H • Novel Techniques for Environmental Sensing I | ATu3G • Disease and Pathogen Detection (ends at 12:15) | 3Tu3A • Deep Learning for 3D Imaging | PTu3D • Turbulence Modeling | ITu3E • Super Resolution, Imaging, Microscopy I |
| 12:30–14:00 | Lunch (On Own) | | | | | | | | |
| 14:00–16:00 | CTu4F • Advances in Computational Microscopy I | LTu4B • Nuclear Diagnostics | STu4C • Optical Fibre Sensors: Medical Applications and Biosensors | STu4G • Quantum-Assisted Measurements (ends at 15:45) | ETu4H • Novel Technique for Environmental Sensing II (ends at 15:45) | SpE3 • From Student to Career: A Look Inside Different Career Paths | 3Tu4A • Integral Imaging | PTu4D • Measurements | ITu4E • Practical Optical Devices: OCT, Endoscopy, LIDAR I |
| 16:00–16:30 | Coffee Break and Networking, *Regency Foyer, Balmoral, Windsor* | | | | | | | | |
| 16:30–18:00 | CTu5F • Advances in Computational Microscopy II | LTu5B • Hypersonics Diagnostics | STu5C • Point of Care and Compact Biosensors | | | ATu5G • Material Identification and Anti-Counterfeiting (ends at 17:45) | 3Tu5A • 3D Sensing and Processing (ends at 18:345) | JTu5D • Wavefront Sensing and Turbulence I (Joint AO and pcAOP) | ITu5E • Deep Learning, Computational Optics, Image Processing and Classification I |

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**Sensing Topicals**
A = Applied Industrial Spectroscopy
L = Laser Applications to Chemical, Security and Environmental Analysis
E = Optics and Photonics for Sensing the Environment
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# Agenda of Sessions — Wednesday, 13 July

| Pacific Daylight Time (PDT, UTC - 07:00) | Regency A<br>Computational Optical Sensing and Imaging | Regency B<br>Laser Applications to Chemical, Security and Environmental Analysis | Regency C<br>Optical Sensors | Regency D | Plaza A<br>MIXED | Plaza B<br>Applied Industrial Spectroscopy | Plaza C<br>3D Image Acquisition and Display: Technology, Perception and Applications | Georgia A<br>Propagation Through and Characterization of Atmospheric Oceanic Phenomena | Georgia B<br>Imaging Systems and Applications |
|---|---|---|---|---|---|---|---|---|---|
| 07:00–17:30 | Registration, *Regency Foyer, Balmoral, Windsor* | | | | | | | | |
| 08:00–09:30 | CW1B • Compressive Sensing and Single-Pixel Imaging | LW1D • Combustion Diagnostics II | SW1E • Optical Fibre Sensors | | EW1G • Marine and Argriculture Sensing | AW1H • Microplastics and Circular Economy | 3W1A • 3D Imaging and Microscopy | PW1F • Aerosols and Non-Kolmogorov Effects | IW1C • Super Resolution, Imaging, Microscopy II |
| 09:30–11:00 | JW2A • Joint Poster Session II (Remote)<br>Coffee Break and Exhibits<br>*Regency Foyer, Balmoral, Windsor* | | | | | | | | |
| 11:00–12:30 | CW3B • Topics in Structured Illumination and Super-Resolution | LW3D • Diagnostics of Aerosols | SW3E • Next Generation Sensors | | OW3G • Microscopy I | AW3H • Climate Change I - Methane Detection<br>(ends at 12:15) | 3W3A • 3D Imaging and Microscopy Hardware | PW3F • Underwater and Medium Effects | IW3C • Optical Design, Fabrication and Characterization I |
| 12:30–14:00 | Lunch (On Own) | | | | | | | | |
| 14:00–16:00 | CW4B • Computational Spectroscopy and Spectral Imaging | LW4D • Photo-Acoustic Diagnostics<br>(ends at 15:45) | SW4E • Laser Based Sensors II | | OW4G • Adaptive Optics for the Eye and Industrial Innovation | AW4H • Climate Change II - Gas Detection | 3W4A • 3D Microscopy | PW4F • Beam Propagation | JW4C • Advances in the Design, Fabrication and Characterization of Optical Sensors I (Joint COSI and IS) |
| 16:00–16:30 | Break | | | | | | | | |
| 16:30–18:00 | | | JW5A • Postdeadline Paper Session I | JW5B • Postdeadline Paper Session II | JW5C • Postdeadline Paper Session III | | | | |
| 18:00–20:00 | Joint Conference Reception<br>*Seymour, Grouse, Stanley, Cypress, English Bay* | | | | | | | | |

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# Agenda of Sessions — Thursday, 14 July

| Pacific Daylight Time (PDT, UTC - 07:00) | Regency A<br>**Computational Optical Sensing and Imaging** | Regency B<br>**Laser Applications to Chemical, Security and Environmental Analysis** | Plaza B<br>**Adaptive Optics: Methods, Analysis and Applications** | Plaza C<br>**3D Image Acquisition and Display: Technology, Perception and Applications** | Georgia A<br>**Propagation Through and Characterization of Atmospheric Oceanic Phenomena** | Georgia B<br>**Imaging Systems and Applications** |
|---|---|---|---|---|---|---|
| 07:00–17:30 | Registration, *Regency Foyer, Balmoral, Windsor* | | | | | |
| 07:45–09:30 | JTh1A • Joint Introductory Remarks and Plenary Session II (Imaging Congress)<br>*Regency DEF* | | | | | |
| 09:30–11:00 | JTh2A • Joint Poster Session III (On-Site)<br>Coffee Break and Exhibits<br>*Regency Foyer, Balmoral, Windsor* | | | | | |
| 11:00–12:30 | CTh3C • Advances in Ptychography  I | LTh3E • Combustion Imaging and Thermometry | OTh3B • Microscopy II | 3Th3A • 3D Image Acquisition | PTh3F • Novel Beams | ITh3D • Deep Learning, Computational Optics, Image Processing and Classification II (ends at 13:00) |
| 12:30–14:00 | Lunch (On Own) | | | | | |
| 14:00–16:00 | CTh4C • Advances in the Design of Computational Imaging Systems | LTh4E • Novel Technology and Special Applications (ends at 15:45) | OTh4B • Wavefront Correction and Industrial Innovation | 3Th4A • 3D Augmented Reality and 3D Imaging | PTh4F • AI and Machine Learning in pcAOP (ends at 15:45) | ITh4D • Practical Optical Devices: OCT, Endoscopy, LIDAR II (ends at 15:45) |
| 16:00–16:30 | Coffee Break and Networking, *Regency Foyer, Balmoral, Windsor* | | | | | |
| 16:30–18:00 | CTh5C • Computational 3D Imaging and 3D Displays | LTh5E • Gas Sensing | OTh5B • Microscopy III | 3Th5A • 3D Sensing and Imaging Hardware | PTh5F • Imaging and Simulation | ITh5D • Super Resolution, Imaging, Microscopy III |

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**Sensing Topicals**
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L =     Laser Applications to Chemical, Security and Environmental Analysis
E =     Optics and Photonics for Sensing the Environment
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# Agenda of Sessions — Friday, 15 July

| Pacific Daylight Time (PDT, UTC -07:00) | Regency A | Regency B Machine Learning Topic | Georgia B | Plaza B | Plaza C |
|---|---|---|---|---|---|
| | **Computational Optical Sensing and Imaging** | **MIXED** | **Imaging Systems and Applications** | **Adaptive Optics: Methods, Analysis and Applications** | **3D Image Acquisition and Display: Technology, Perception and Applications** |
| 07:00–18:00 | **Registration,** *Regency Foyer, Balmoral, Windsor* | | | | |
| 08:00–10:00 | CF1D • Advances in Ptychography II | LF1C • Machine Learning and Computatinal Sensing (Joint Theme COSI and LACSEA on Machine Learning) | | JF1B • Wavefront Sensing and Turbulence II (Joint AO and pcAOP) | 3F1A • 3D Sensing and Imaging |
| 10:00–10:30 | **Coffee Break and Networking,** *Regency Foyer, Balmoral, Windsor* | | | | |
| 10:30–12:30 | | CF2C • Spectral Imaging and Machine Learning for Sensing and Imaging (Joint Theme COSI and LACSEA on Machine Learning) (ends at 12:00) | JF2D • Advances in the Design, Fabrication and Characterization of Optical Sensors II (Joint COSI and IS) | OF2B • FSO Wavefront Sensing and Control | 3F2A • 3D Reconstruction and Display (ends at 12:00) |
| 12:30–14:00 | **Lunch (On Own)** | | | | |
| 14:00–16:00 | | IF3B • Optical Design, Fabrication and Characterization II (ends at 15:00) | | | 3F3A • Sensing, Imaging, and Microscopy |

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