

OPIC2026 Scope

ALPS2026

- Novel Optical Materials/ Structure and Applications
- High Average Power Lasers and Applications
- High Peak Power Lasers, High Pulse Energy Lasers and Applications
- Novel Solid State/ Fiber/ Diode Lasers and Applications
- Short Wavelength Light Sources and Applications
- Terahertz Devices, Nonlinear Optics and Applications
- Novel Optical Devices, Metamaterials, Structure and Applications
- Optical Devices and Techniques for Bio and Medical Applications
- Optical Frequency Combs/ Frequency Stabilized Lasers and Applications
- Quantum Optics and Their Applications

BISC2026

- Medical and Biological Imaging Instrumentation and Techniques
- Optogenetics
- Advanced Microscopy
- Advanced Endoscopy
- Super Resolution in Biomedical Imaging and Sensing
- Computational Imaging in Biomedical Imaging and Sensing
- Adaptive Optics in Biomedical Imaging and Sensing
- Structured Illumination in Biomedical Imaging and Sensing
- Interferometry and Holography in Biology and Medicine
- Optical Coherence Tomography
- Diffuse Optical Tomography
- Digital Holography
- Quantitative Phase Imaging
- Photoacoustic Imaging
- Multimodal Imaging and Sensing
- Optical Biopsy
- Spectroscopic Imaging and Sensing
- Multispectral Imaging and Sensing
- Scattering Imaging
- Fluorescence Imaging
- Molecular Imaging
- Terahertz Sensing
- Optical Fibers and Sensors for Biomedicine
- Multimodality Optical Diagnostic Systems

CPS-SNAP2026

- Core Technologies for Sensing/ Network/ AI
- Applications and use cases
- Photonics Technologies

FAAP2026

- Advances and Applications of Optical Technology
 - Laser Technology in Agriculture.
 - Sensing Technology for Agriculture
 - Plant Factory with Artificial Light
- Integration of Science and Technology
 - Biotechnology,
 - Robotics, Drones
 - IT, and AI
 - Digital Transformation (DX)
- Advancing Sustainable Agriculture
 - Smart Agriculture
 - Photosynthesis
 - Eco-Friendly Technology
 - Satellite-Based Sensing Technology

HEDLA/HEDS2026

- Fluid and Collisional Plasma Dynamics
- Collisionless Plasmas and Particle Acceleration
- Transport and Atomic/Radiative Processes
- Dense Plasma Physics
- New Frontiers in High-Energy-Density Science

ICNNQ2026

- Light Matter Interaction in Nanostructures
- Quantum Optics
- Photonic Crystals and Sub-Wavelength Systems
- Metamaterials and Plasmonics
- Near-Field Optics
- Quantum Dot, Nanowire and 2D Devices
- Nonlinear Photonic Devices
- Active Photonics
- Silicon Photonics
- Integrated Photonic and Quantum Circuits
- Solar Cells and Energy Harvesting Devices
- Quantum Light Sources and Quantum Bit
- Quantum Information and Communication Devices
- Quantum Sensing Devices
- Bio-Photonics

IP2026

- Optical computing
- Digital optics
- Nanophotonic information system
- Optical biomimetic computing
- Optical cryptology
- Holography and holography art
- Computer-generated holography
- Electronic holography
- 3D display
- Volumetric display
- Holographic display
- Aerial display
- Head-up display
- Near-to-eye display
- Novel display
- Light-field imaging and display
- Digital holography
- Quantitative phase imaging
- Polarimetric Imaging
- Optical, optoelectronic, optofluidic, and imaging devices
- Computational imaging
- Compressive imaging
- Structured illumination imaging
- Novel imaging
- Novel camera
- Ptychography
- Full-field optical coherent tomography
- Imaging in scattered medium
- Digital phase conjugation
- Novel image acquisition

- Pump-probe imaging
- Ultrafast imaging
- X-ray imaging
- THz imaging
- Adaptive optics
- Optical memory
- Holographic data storage
- Spatial light modulator
- Vision engineering
- Appearance control
- Projection mapping
- AI Optics
- VR (virtual reality)
- AR (augmented reality)

LDC2026

- Light Sources and Components
- Imaging and Lighting
- AI for Display and Imaging
- XR (AR, MR, VR) and Metaverse Technologies
- Laser Applications for Moving Platforms
- Novel and Emerging Technologies

LEDIA2026

- Light Emitting Diodes
- Laser Diodes
- Photodetectors and Solar Cells
- Epitaxial Growths
- Extended Wavelength Devices
- Novel Fabrication Processes
- Novel Characterization Methods
- Novel Materials and Devices
- Industrial Application

LSC2026

- New Laser and Synchrotron Sources
- Developments on Laser and Synchrotron Instrumentation
- Recent Studies on Laser and Synchrotron Radiation
- Experimental Techniques and Utilization of Lasers and Synchrotrons
- Applications of Laser and Synchrotron on Materials Science and Biological Sciences
- Applications of Laser and Synchrotron on Interdisciplinary Fields such as Cultural Properties, Environment, and Resource Issues

LSSE2026

- Space Technology
 - Lasers in Space
 - Laser debris deorbit
 - Optics for space technology
- Carbon Neutral and Remote Energy
 - Biochemical application
 - Nuclear Applications
- Remote Sensing and Environment Monitoring
 - Inspection of Infrastructures by Quantum beam (Neutron source, Laser, etc)
 - Laser induced breakdown spectroscopy
- Industrial Application and Nuclear Application
 - Extreme Condition
 - Robotics
 - Infrastructures

- Laser Acceleration (Planning session for LSSE2026)

- Laser Acceleration

- Agri Photonics (Joint session with FAAP2026)

- Future of Agriculture and Advanced Photonics

META2026

- Metamaterials and Metasurfaces
- Plasmonics
- Nanophotonics
- Near-Field Optics and Photonics
- Quantum Optics and Photonics
- Nonlinear Metamaterials
- Metamaterial Devices for Imaging and Sensing
- Thermal Metamaterial Devices
- Active and Tunable Metamaterial Devices
- New Materials for Metamaterial Devices
- AI Technologies for Metamaterial Devices
- Novel Design, Optimization, Characterization, Fabrication Techniques for Metamaterial Devices

OMC2026

- Structured light fields
- Optical trapping and materials manipulation
- Fundamentals
- Applications

OPTM2026

- 3D Profilometry
- Polarimetry/Ellipsometry
- Novel Optical Testing
- Surface Inspection Methods and Applications
- Absolute Testing for Metrology
- Application of Interferometric Techniques
- Machine/Robot Vision Methods, Architectures and Applications
- Lighting Methods and Systems for Inspection
- Dynamic Measurement
- Unique Optical Systems for Inspection and Measurements
- 2D and 3D Machine Vision Methods and Applications
- 3D Data Acquisition
- Freeform Testing
- Scatterometry
- Unconventional Microscope for Inspection
- Super-High Accurate Measurement for Smooth Surfaces
- Micro- and Nano-Scale Measurement Methods
- Structured Light Methods, Fringe Projection Measurement and Applications
- Phase Shifting Methods Applied To Industrial Inspection
- Mechanic-Optics and Photonics for Metrology and Inspection
- Optical Inspection by Optical Comb
- Super Resolution Microscope for Inspection
- Spherical and Aspherical Measurements
- Color Metrology of Manufactured Goods
- On-Line and Process Control Measurements
- On-Machine Tool Measurements of Shape and Finish
- High-Resolution and High-Speed Inspection Applications
- Novel Interferometry

OWPT2026

- Devices and Components
- Systems and Subsystems
- Applications
- Others (Standardization, Regulations, and Novel/ Emerging Topic
Related to The OWPT Conference)

SLPC2026

- Cutting
- Welding
- Additive Manufacturing / Selective Laser Melting
- Cladding / Laser Metal Deposition
- Functional Surface Manufacturing
- Laser Peening and Related Phenomena
- Laser Polishing / Cleaning
- Short Wavelength Application
- Micro Nano Processing
- Ultrashort Pulsed Laser Processing
- Advanced Lasers and Optical Technologies
- CFRP Processing
- Industrial Applications
- AI / CPS Laser Processing
- High Power Blue and Green Laser
- Others

TILA-LIC2026

- Tiny Integrated Lasers
- Optical Materials for Tiny Integrated Lasers
- Laser Induced Phenomena by Power Miniature Lasers
- Application of Tiny Integrated Lasers
- Giant Micro-Photonics

XOPT2026

- X-Ray Optics & Diagnostics
- X-Ray Beamline & Instrumentation
- Facility Updates & New Facilities
- X-ray Imaging, Microscopy & Coherence-Related Applications
- New Methods
- Others (X-Ray Sources, Detectors, etc.)