

LOPS® 2025		
	May 31, 2025 Saturday	
	Tabletop Exhibitions	
	Plenary Forum	
	Welcoming Remark: Dr. Alex Kazemi/Chairman of Conference	09:30-09:50
	Session Chair: Lingyan Shi	
Plenary	Robert Boyd, The Institute of Optics University of Rochester, USA Talk: Sharper Images Through Quantum Imaging	09:50-10:30
Keynote	Alex Kazemi, ARK International, USA Talk: Advanced Fiber Optic Sensing Systems for Aviation & Aerospace Applications	10:30-11:00
	Networking Break	11:00 -11:30
Keynote	Peter J. Delfyett, University of Central Florida, USA Talk: Ultrafast Mode-locked Semiconductor Lasers and Applications; Past Perspectives and Future Outlook	11:30-12:00
Keynote	Lingyan Shi, UCSD Bioengineering, USA Talk: Metabolic Nanoscopy For Spatial Landscape Of Aging And Metabolism	12:00-12:30
	LUNCH BREAK	12:30-13:30
Keynote	Boris Gramatikov, Johns Hopkins University, USA Talk: Signal normalizaion in polarizaion-sensiive systems	13:30-14:00
Keynote	Doug Dykaar, Founder, DifTek Lasers Inc., Canada	14:00-14:30
Session	Pu-Ting Dong, The ADA Forsyth Institute, USA Talk: Probing life with photons: How optical imaging uncovers cellular machineries of biological systems	14:30-14:50 Virtual
Keynote	Hyeon Jeong Lee, Zhejiang University, China Talk: Unveiling molecular signatures for disease classification by spectroscopic imaging	14:50-15:20 Virtual
Keynote	Junjie Yao, Duke University, USA Talk: From light to sound: breaking limits in photoacoustic imaging, cavitation mapping, and ultrasound printing	15:20-15:50
	Coffee Break and Networking with DRS DAY LIGHT Solutions, Edmund Optics, XSoptix, Lumina Power, tec5usa, Nanoscribe	15:50-17:20
Session	Tongtong Lu, University of Wisconsin Oshkosh, USA Talk: Development of a deep ultraviolet excited fluorescence microscope for rapid assessment of large tissue specimen	17:20-17:40 Virtual
Session	Ioannis Tomkos, University of Patras Patras, Greece Talk: Analogue optical signal processing (aosp) for advanced energy-efficient terabit scale optical transceivers used in short-reach applications	17:40-18:10 Virtual

Keynote	Haishan Zeng, University of British Columbia, Canada Talk: In vivo motion-tolerant 3d volumetric multimodality microscopy imaging of human skin with subcellular resolution and extended field of view	18:10-18:40
	June 1, 2025 Sunday	
	Tabletop Exhibitions Full Day Networking Breaks	
	Session Chair: Alex Doronin	
	Opening Ceremony & Introduction	
Plenary	Paul Corkum, University of Ottawa, Canada	09:10-09:50
Plenary	Eric W. Van Stryland, CREOL, The College of Optics & Photonics, USA	09:50-10:30
Plenary	Enrique J. Kiko Galvez, Colgate University, USA Talk: Nonlocal polarization metrology	10:30-11:10
	Networking	11:10 -11:30
Keynote	Brock Koren, DRS DAY LIGHT Solutions, USA Talk: The past, present, and future of quantum cascade lasers technology (QCL-IR)	11:30-12:10
Keynote	Andreas Hielscher, New York University, USA Talk: Whole Body Disease Assessment with Vascular Optical Tomographic Imaging	12:10-12:40
Keynote	Andrei Afanasev, The George Washington University, USA Talk: Electric and magnetic chiral pairs near singularities of structured light	12:40-13:10
	Networking Lunch Break	13:10-14:20
Keynote	Ivan Divliansky, CREOL, The College of Optics & Photonics, USA Talk: Phase-shifted volume Bragg gratings – design and applications	14:20-14:50
Keynote	Alexander Doronin, Victoria University of Wellington, New Zealand Talk: Assessing oam transport in multipole-matched scattering media: Numerical simulations and experiment	14:50-15:20
Keynote	Jeon Woong Kang, MIT, USA Talk: Compact band-pass raman spectroscopy for non-invasive continuous glucose monitoring	15:20 -15:50
	Coffee Break and Networking with DRS DAY LIGHT Solutions, Edmund Optics, XSoptix, Lumina Power, tec5usa, Nanoscribe	15:50-17:30
Keynote	Maxim Durach, Georgia Southern University, USA	17:30-18:00
Keynote	Yannis M. Paulus, University of Michigan, USA Talk: Multimodal Photoacoustic, OCT and Fluorescence Imaging-Guided Retinal Stem Cell Therapy	18:00-18:30
Keynote		18:30-19:00
	Thanking Remarks	

	<p>June 2, 2025 Monday</p> <p>Virtual Program</p>	
	Tabletop Exhibitions Full Day Networking Breaks	
Plenary	<p>Steven Chu, Stanford University, USA</p> <p>King Faisal Prize (1993), Nobel Prize in Physics (1997)</p>	09:00-9:40
Plenary	<p>Sukhdev Roy, Dayalbagh Educational Institute, India</p> <p>Talk: Controlling the Brain and Heart with Light and Sound</p>	09:40-10:20
Plenary	<p>Konstantin Bliokh, Donostia International Physics Center, Spain</p> <p>Talk: Topologically structured waves and manipulation of particles</p>	10:20-11:00
	Coffee Break and Networking	11:00-11:20
Plenary	<p>Alan Willner, University of Southern California, USA</p> <p>Talk: High-accuracy ranging in turbid water using structured light</p>	11:20 -12:00
Plenary	<p>Federico Capasso, Harvard University, USA</p> <p>Talk: Rotatum of Light</p>	12:00-12:40
Keynote	<p>Jamal H. Ali, The City University of New York, USA</p> <p>Talk: Neuron Counting and Optical Characteristics in Human Brain Tissues: A Noninvasive Study in Visible and Near-Infrared Spectra</p>	12:40-13:10
Keynote	Guan (Gary) Xu, University of Michigan, USA	13:10-13:30
Keynote	Zenghu Chang, University of Ottawa, Canada	13:30-14:00
Keynote	<p>Hui Cao, Yale University, USA</p> <p>Talk: Lasers on Silicon</p>	14:00-14:30
Keynote	Travis Craddock, Nova Southeastern University, USA	14:30-15:00
Keynote	<p>Salman Noach, Jerusalem College of Technology, Israel</p> <p>Talk: Novel Ablative Tm: YAP laser for medical application</p>	15:00-15:30
Keynote	<p>Kaichen Dong, Tsinghua University, China</p> <p>Talk: Magic-angle effects and optical vortex generation enabled by twisted bilayer photonic crystals</p>	15:30-16:00

