

FINAL PROGRAM

Global Photonics, Optics and Lasers Conference

September 19 - 20, 2024 | Dubai, UAE



September 19, 2024 | Dubai, UAE **@** Meeting Room 1

09:00-09:15	Onsite Registrations
09:15-09:30	Opening Remarks and Introduction
	Conference Chair: Prof. Dieter Bimberg, TU Berlin, Germany
	Moderator:
09:30-10:10	Title: Energy efficiency of optical communication in data centers Dieter Bimberg, CIOMP of CAS, Changchun and TU Berlin, Germany
10:10-10:50	Title: New Horizon for Photonic Devices of Ultrawide-Bandgap Semiconductors Koide Yasuo, National Institute for Materials Science (NIMS), Japan
10:50-11:05	Coffee Break
11:05-11:45	Title: III-V quantum dot materials and lasers grown on Si platform
	Huiyun Liu, University College London, UK
11:45-12:25	Title: Exploitation of the whole Information Content of the Light Field for the Inspection of Micro- and Nano-Components
	Osten Wolfgang, University of Stuttgart, Germany
12:25-13:05	Title: Exploiting Hot Carriers in Micro- and Nano-Photonics Wenshan Cai, Georgia Institute of Technology, USA
13:05-13:10	Group Photo
13:10-14:00	Lunch Break
14:10-14:45	Title: Optical Manufacturing with Far-Field Nano Super Resolution
	Hong-Bo Sun, Tsinghua University, China
Keynote Talks	
14:45-15:15	Title: Light-modulated van der Waals force microscopy
	Benfeng Bai, Tsinghua University, China
15:15-15:45	Title: How AI technology transforms the design and manufacturing of photonic chips
	Serge Bidnyk, Enablence Technologies, Canada
15:45-16:00	Coffee Break

16:00-16:30	Title: Integrated Optical Neural Network
	Hongwei Chen, Tsinghua University, China
16:30-17:00	Title: High performance quantum dot lasers
	Kouichi Akahane, National Institute of Information and Communications Technology, Japan
16:30-17:00	Title: Risk assessment of the possible risk of lead consumption in pasta
	Abdollahi Jahdi, Amirkabir University of Technology, Iran

End of Day-1

DAY 2

Sept 20, 2024 | Dubai, UAE @ Meeting Room 1

	Keynote Talks
	Moderator: Will be announced
09:30-10:00	Title: High-Speed Optical Interconnects for Future Intelligent Computing Binhao Wang, Xi'an Institute of Optics and Precision Mechanics, CAS, China
10:00-10:30	Title: Combining photonics and artificial intelligence for early prediction of Alzheimer's disease Jonghwan Lee, Brown University, USA

Invited Talks 10:30-10:55 Title: Hypodermic needles as hollow waveguides for photo identification and therapy delivery Alexander H Slocum, Massachusetts Institute of Technology, USA

10:55-11:10	Coffee Break
11:10-11:35	Title: Band gap trapping of acoustic phonons in the forward Brillouin scattering Sigang Yang, Tsinghua University, China
11:35-12:00	Title: Europium doped functional core-shell nanophosphor as fluorescent materials for various types of applications Sanjay Kumar Srivastava, Banaras Hindu University, India

Title: Beating Pixel Resolution: Towards Ultra-High Laser Frequency Metrology
Lipeng Wang, Nanchang University and Leiden University
Title: Lidar for Observations of the Atmosphere
Detlef Mueller, Wuhan University, China

12:50-13:45	Lunch Break
13:45-14:10	Title: Trends in thin film coatings and metrology for high-end optical applications Sven Schröder, Fraunhofer IOF, Germany
14:10-14:35	Carbon Quantum Dots based Fluorescent Sensor for Rapid Detection of H ₂ O ₂ and Hg ²⁺ Ions in Aqueous Media Chandra Shekhar Pati, Banaras Hindu University, India
14:35-15:00	Title: Reflective Metalens with Enhanced Off-axis Focusing Performance Zahrah Alnakhli, King Abdullah University For Science and Technology, Saudi Arabia
15:00-15:25	Title: Applications of graphene based perfect absorption in optics and optoelectronics Chucai Guo, National University of Defense Technology, China
15:25-15:50	Title: Machine learning with on-chip diffractive optics Tingzhao Fu, National University of Defense Technology, China
15:25-15:50	Title: Design and Fabrication of High-Performance Metalenses for Optoelectronic Devices using Nanoimprint Lithography Zahrah Alnakhli, King Abdullah University For Science and Technology, Saudi Arabia

15:50-16:30	Poster Presentations
P01	Title: Multi-Approach Investigation of the Itinerary to Chaos of Semiconductor Lasers under External Perturbations from Different Physical Origins
	Qin Zou, Télécom SudParis, Institut Polytechnique de Paris, France
P02	Title: Generation of reconfigurable attractive optical trajectories in space controlled in its shapes and velocities
	Amir Guessoum, Ferhat Abbas University, Algeria
P03	Title: UV-Assisted Nanoimprint Lithography: The Impact of Loading Effect in Silicon on Nanoscale Pattern of Metalens Zahrah Alnakhli, KAUST, Saudi Arabia