

2nd Global Conference on

PHOTONICS, OPTICS AND LASERS

October 23-24, 2025 | Nice, France

Venue:

Crowne Plaza Nice – Grand Arenas by IHG,
Nice, France

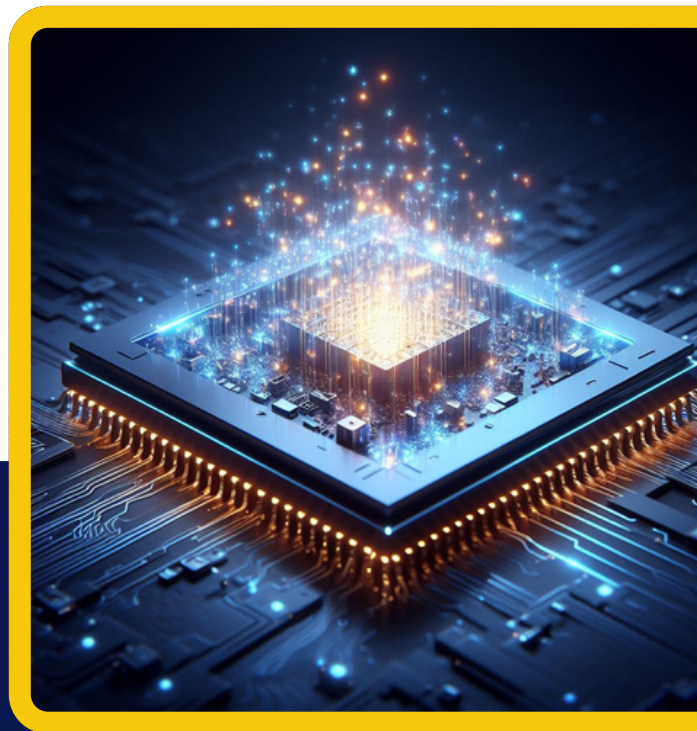
AGENDA HIGHLIGHTS:

- Plenary Talks
- Keynote Talks
- Invited Talks
- Live Q&A sessions

FINAL PROGRAM



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GPOLC2025

09:00-09:15 Registrations & Badge Pick Up

09:15-09:40 Introduction & Opening Ceremony

PLENARY SESSION

Conference Chair: **Dieter Bimberg**, CIOMP of CAS, Changchun and TU Berlin, Germany

Moderator for Day 1: **Si-Yu Yin**, Jilin University, China

09:40-10:20 Title: Quantum Dots for Green Quantum Technologies
Dieter Bimberg, CIOMP of CAS, Changchun and TU Berlin, Germany

10:20-11:00 Title: Femtosecond laser-induced physicochemical processes at interfaces
Wolfgang Kautek, University of Vienna, Austria

11:00-11:15

COFFEE BREAK

11:15-11:55 Title: Chiral Nanophotonics
Wenshan Cai, Georgia Institute of Technology, USA

11:55-12:35 Title: Integrated Optical Modulators: Design and Performance Metrics
Wolfgang Freude, Karlsruhe Institute of Technology, Germany

KEYNOTE SESSION

12:35-13:05 Title: Energy-Efficient High-Speed VCSELs for Data Communication
Si-Cong Tian, Changchun Institute of Optics, Chinese Academy of Sciences, China

13:05-13:15

Group Photograph

13:15-14:00

LUNCH BREAK

14:00-14:30 Title: Femtosecond laser Print Nature-Inspired Superwettability Surfaces
Feng Chen, Xi'an Jiaotong University, China

14:30-15:00 Title: Additional Lighting Effects for Photovoltaic Improvements in the Performance of Solar Cells
Ivana Validzic, University of Belgrade, Serbia

15:00-15:30 Title: Optical elements in autostereoscopic displays
Armin Grasnick, IU International University of Applied Sciences, Germany

15:30-16:00 Title: 3D Waveguide Preparation by Femtosecond Laser Direct Writing
Zhen- Nan Tian, Jilin University, China

16:00-16:15

COFFEE BREAK

16:15-16:40 Title: Angular-momentum transformation and Imbert-Fedorov shift of refracted beams at axial-symmetric interfaces
Shufang Fu, Harbin Normal University, China

16:40-17:05 Title: Greatly Boosted red photoluminescence emission in Ga₂O₃:Eu³⁺/Ti⁴⁺ composite ultrawide bandgap semiconductors
Abbas Nasir, Guangzhou University, China

17:05-17:35 Title: The photonic neural network based signal processing accelerator for distributed acoustic sensing system
Xuping Zhang, Nanjing University, China

END OF DAY 1

DAY-2

October 24, 2025 | Friday

Meeting Room: Jasmin 3

KEYNOTE SESSION

Moderator for Day 2: Si-Yu Yin, Jilin University, China

10:00-10:30 Title: Fast-reconfigurable and Actively-stabilized Interference Lithography for Large-area Nanopatterning
Wendi Li, The University of Hong Kong, Hong Kong

10:30-11:00 Title: Guided Mode Resonance for Flat Top Polarization Independent Optical Bandpass Filtering in Planar Optical Waveguide
Jianhua Liu, Fudan University, China

11:00-11:15

COFFEE BREAK

INVITED SESSION

11:15-11:40 Title: Frequency-Multiplexed Extreme Learning Machines and Their Optimization
Marina Zajnulina, Multitel ASBL, Belgium

11:40-12:05 Title: Recent Progress of High Power and Low Power Consumption Operation of Semiconductor Pumping Light Sources for Fiber Raman Amplifiers
Junji Yoshida, Furukawa Electric Co., Ltd., Japan

- 12:05-12:30** Title: The Design And Development of Type-II Superlattice Infrared Detector
Tong Sun, Beijing University of Posts and Telecommunications, China
- 12:30-12:55** Title: Progress Enabling Deep EUV Mirror Coatings and Coating Pinhole Control in Chip Fab and for the Habitable Worlds Observatory
James Hamilton, University of Wisconsin-Platteville, USA
- 12:55-13:45** LUNCH BREAK
- 13:45-14:10** Title: High-sensitivity data center optical interconnects based on Mode Vector Modulation Direct-Detection: An overview of Receiver DSP techniques
Ioannis Roudas, Montana State University, USA
- 14:10-14:35** Title: Laser ablation of brain tissues by 6.45 μm solid state laser with attractive collateral damage
Yong Bo, Technical Institute of Physics and Chemistry, CAS, China
- 14:35-15:00** Title: Plasmonic Nano-coatings For Sensing Applications
Ribal Georges Sabat, Royal Military College of Canada, Canada
- 15:00-15:25** Title: Low-Loss Antiresonant Hollow-Core Soft-Glass Fibers for Mid-Infrared Laser Delivery Applications
Haitao Guo, Xi'an Institute of Optics and Precision Mechanics (XIOPM), CAS, China
- 15:25-15:50** Title: Research on the Yb Doped All-Solid Anti-Resonant Large Mode Field Laser Fiber
Chaoqi Hou, Xi'an Institute of Optics and Precision Mechanics (XIOPM), CAS, China
- 15:50-16:05** COFFEE BREAK
- 16:05-16:30** Title: High-Power All-Fiber Mid-Infrared Laser Operating at 3- μm Band: Research Progress and Applications
Xusheng Xiao, Xi'an Institute of Optics and Precision Mechanics (XIOPM), CAS, China
- 16:30-16:55** Title: Advancing Photonic-Electronic Hybrid Computing: Innovations in Photonic Devices and Architectures
Zefeng Xu, Hong Kong University of Science and Technology (Guangzhou), China
- 16:55-17:20** Title: Laser growth and processing of materials in the nanotechnology era
Panos Patsalas, Aristotle University of Thessaloniki, Greece

17:20-17:45 Title: Ionization and Ion Energy Boost in Laser Irradiated Matter with Resonating Gold Nanodopes
Konstantin Zsukovszkij, HUN-REN Wigner Fizikai Kutatóközpont (Research Center for Physics), Hungary

17:45-18:00 POSTER SESSION

P001 Title: Three-dimensional Multichannel Waveguide Grating Filters
Siyu Yin, Jilin University, China

P002 Title: Visible Light Communication System Design Applied to Underwater Robot Swarm Control
Kai Sun, Westlake University, China

END OF DAY 2



****LOOKING FORWARD TO SEE YOU ALL AT NEXT EDITION****

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NEXT EDITION

GPOLC2026

3rd Global Conference on

PHOTONICS, OPTICS AND LASERS

October 19-21, 2026 | Dubai, UAE

CONTACT US

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