

4th Edition of European Lasers, Photonics and Optics Technologies Summit

Theme: Illuminating the Future:
Uniting Innovations in Lasers,
Photonics, and Optics

10-12TH
MARCH
2025

Our Scientific Committee



EPHRAIM SUHIR
Portland State University
United States



ALEX A KAZEMI
The Boeing Company, United States



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IINAMEI, Mexico



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Hong Kong University of Science
and Technology, Hong Kong



KOICHI SHIMIZU
Xidian University, China

Scientific TOPICS

- Quantised Light-Matter Interaction
- Lasers
- Biophotonics and Medical Engineering
- Nano-optics and Metasurfaces
- Biophotonics
- Novel Laser Technologies and their Applications
- Nanophotonics and Photonic Crystals
- Photonic Materials and Metamaterials
- Fiber-Optic Waveguide Devices and Sensors
- Laser Science and Technology
- Optics and Photonics for Energy and the Environment
- Optics and Lasers in Medicine
- Integrated Optoelectronics
- Photonic-Electronic Integrated Circuits And Systems
- Atto Science

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VENUE

NH Villa Carpegna
Via Pio IV, 6, 00165 Roma RM, Italy

Tentative Program

Keynote Presentations

Ephraim Suhir, Portland State University, United States

Title: Fiber Optics Structural Analysis (FOSA): Perspective and review

Alex A Kazemi, The Boeing Company, United States

Title: Advanced fiber optic sensing systems for aerospace applications

Luis E Abad, Admira Vision, Spain

Title: Photobiomodulation therapy for age-related macular degeneration and diabetic retinopathy

Francisco Bulnes, IINAMEI, Mexico

Title: Fine measurements of field torsion and its spectra III

Vladimir G Chigrinov, Hong Kong University of Science and Technology, Hong Kong

Title: Azodye photoaligned nanolayers for new liquid crystal photonics and display devices

A R Ganesan, Indian Institute of Technology Madras, India

Title: Nanoscale tilt measurement with improvised optical interferometric configurations

Koichi Shimizu, Xidian University, China

Title: Application of new techniques to transillumination imaging of animal bodies using NIR light

Mohamed Essam Khedr, Arab Academy for Science, Egypt

Title: From passive light to smart light: The role of AI in the next generation of optical networks

Oral Presentations

Katharina Flaig Ruttgers, Photonics21, Germany

Title: The future of photonics in Europe

Carlos A Hernandez Gutierrez, National Technological Institute of Mexico, Mexico

Title: Structural and optical characterization of CZTS Films on kapton deposited via SILAR for photovoltaic applications

Oleg V Gradov, Federal Research Center for Chemical Physics of the Russian Academy of Sciences, Russian Federation

Title: Frontiers of lens-less instrumentation as a fundamental basis for pure scientific, applied biomedical and biotechnological, food agricultural and industrial applications. From know how history to the future

Vladimir T Chernyi, Modern Science Institute, Russia

Title: The origin of Saturn's visible dense rings, first observed by Galileo in 1610 and confirmed by Cassini observations in 2004-2017

Gennadiy Sokolov, Independent Researcher, Russia

Title: Cosmological redshift, time dilation and the doppler effect

Utpal Nundy, Raja Ramanna Centre for Advanced Technology, India

Title: Theoretical investigation of spectral characteristics of CW CO lasers

U V S Seshavatharam, I-SERVE, India

Title: Corrected Hubble's law and current cosmic light speed rotation

Jyoti Rajput, Lovely Professional University, India

Title 1: Exploring electron acceleration potential: Investigating the efficacy of hermite-coshgaussian laser pulse envelopes

Title 2: Electron Acceleration in the presence of magnetic field with Bessel Beams

Apurva Kumari Singh, B V Raju Institute of Technology, India

Title: Optimized deweathering techniques for enhancing single remote sensing images

Uma Mahesh R N, ATME College of Engineering, India

Title: Deep Convolutional Neural Network (CNN) for threedimensional (3-D) objects classification using phase-only digital holographic information

Aniruddh Bahadur Yadav, Velagapudi Ramakrishna Siddhartha Engineering College, India

Title: Thiolated gold nanoflower for breast cancer associated volatile organic compounds sensing

Anand Dev Ranjan, IISER Kolkata, India

Title: Bottom-up plasmonic microstructures for Surface Enhanced Raman Spectroscopy (SERS)

Subhajit Bandopadhyay, Rashtriya Raksha University, India

Title: Photonics application in Hyperspectral Remote Sensing: Assessing sun-Induced fluorescence and reflectance across ecosystems

Moumita Das, Malda College, India

Title: Quantum squeezing in optical coupler via hyper raman interactions

Nishant Kumar Sharma, Kumaun University, India

Title: On the development of photo electric effect

Karan Surana, Sardar Patel University, India

Title: Towards a luminescent future with carbon dots

Pukhrambam Puspa Devi, National Institute of Technology Silchar, India

Title: Innovative photonic architectures for bio-sample detection through refractive index sensing

Sanjeeb Dey, Ramakrishna Mission Vidyamandira, India

Title: Coherent perfect absorption in metal-dielectric composites: Theory and recent application

Nianwwen Cao, Nanjing University of Information Science & Technology, China

Title: Measurements of Angstrom exponent of aerosol by ozone lidar with four wavelengths

Jin Li, Northwest A&F University, China

Title: Optical fiber VOCs gas sensors development working at room temperature

Tianyu Zhao, Xian Jiaotong University, China

Title: Super-resolution image reconstruction framework based on the joint spatial-frequency reconstruction method

Christopher Oluwatobi Adeogun, South China University of Technology, China

Title: Fibre optic-based delay lines for low phase noise systems to realize a tuning mechanism operating with cartesian coordinates on the complex plane and expedient to phase stabilization

Badis Kahouadji, University of Bejaia, Algeria

Title: Synthesis and characterization of luminescent polymer nanocomposite films (YPO₄:Pr³⁺/ polystyrene for solid-state lighting applications

Shahid Naseem, University of Education, Pakistan

Title: Machine learning classifiers for coronary heart disease prediction

Tentative Program

Oral Presentations

Ahlem Abidi, Tunis El Manar University, Tunisia

Entangled photon-electron following thermo-field dynamics method

Sameer Salam, Imam Jaafar Al-Sadiq University, Iraq

Title: All-fiber passive Q-switched laser at 1072 nm based on hybrid organic small molecules as a saturable absorber with a high output power

Seongwoo Woo, Addis Ababa Science & Technology University, Ethiopia

Title: Improving the fatigue design of mechanical systems such as refrigerator

Shenko Chura Aredo, Adama Science and Technology, Ethiopia

Title: Smart Surveillance with 5G: A Performance Study in Adama City

Mohamed Daris, Rabat-Morocco, Morocco

Title: The solution of the SCHRODINGER equation from the link between quantum mechanics and relativity

Oral presentation slots are available

Poster Presentations

Guillermo Bracamonte, National University of Cordoba, Argentina

Title: Enhanced silicon nanophotonics for targeted non-classical light delivery on biostructures

Asaad A Ghanem, Mansoura University, Egypt

Title: Selective laser trabeculoplasty as initial and adjunctive treatment for open angle glaucoma

Jamal Zimou, Universite Ibn Tofail, Morocco

Title: Experimental and numerical study of $\text{Ce}_{1-x}\text{Fe}_x\text{O}_2$ thin films for photovoltaic applications

Poster presentation slots are available
