

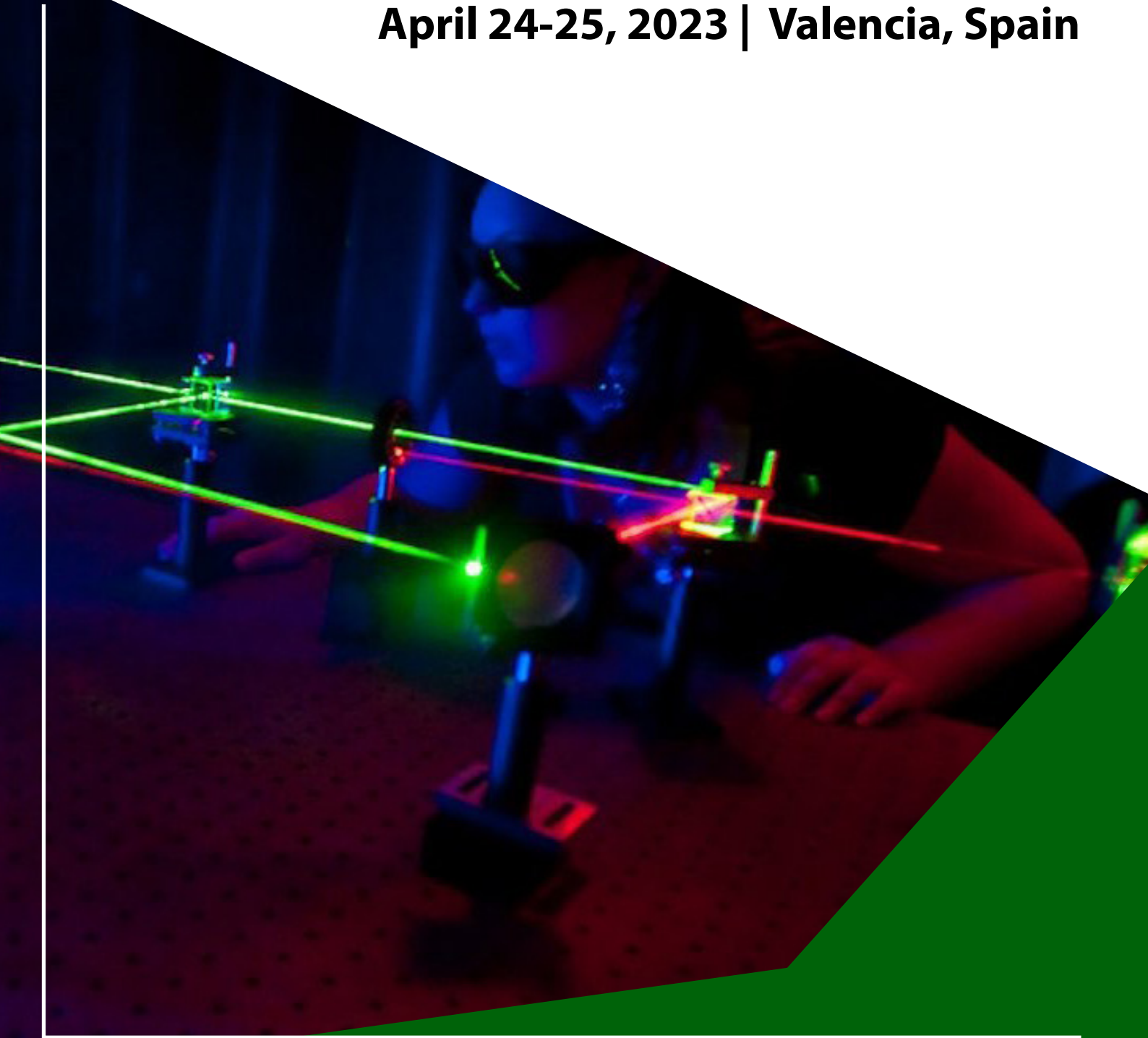


Final Program

ISLOP2023

**International Summit on
Lasers, Optics and Photonics**

April 24-25, 2023 | Valencia, Spain



Day-1 | April 24, 2023

09:00-09:30		On Spot Registrations
Chair		Viacheslav Artyushenko , President of Art Photonics GmbH, Germany
Co-Chair		Aleksander Zidansek , Vice Dean-Jozef Stefan PG School, Slovenia
09:30-10:10	P	Title: Innovative Fiber Optic Solutions in 0.3-16 μ m Range for Promising Industrial, Medical and Scientific Applications Viacheslav Artyushenko, President of Art Photonics GmbH, Germany
10:10-10:50	P	Title: Advances in Semiconductor Lasers and PICs Jan Mink, Director at VTEC Lasers & Sensors, Netherlands
10:50-11:05		Refreshment Breaks
11:05-11:45	P	Title: New Generation of Non-Invasive Wearable Health Monitoring Devices Edik U. Rafailov, Aston University, United Kingdom
11:45-12:25	P	Title: Liquid Crystals: Laboratory System of Fundamental Physics Samo Kralj, Head-University of Maribor, Slovenia
12:25-13:05	P	Title: Optical Wireless Communications: Towards 6G Vision Sujan Rajbhandari, Bangor University, United Kingdom
13:05-14:05		Group Photo Lunch
14:05-14:35	K	Title: Specialty Optical Fibres for Enhanced Sensing Applications in Industry Kenny Hey Tow, RISE Research Institutes, Sweden
14:35-15:05	K	Title: Prediction of Defects Generation via in-process Monitoring System in Powder Bed Fusion Additive Manufacturing Hideki Kyogoku, Director-Laser Additive Center, Japan

15:05-15:35	K	Title: Entanglement Distribution for fully Meshed Topology in Quantum Networks Djeylan Aktas, Slovak Academy of Sciences, Slovakia
15:35-15:50		Refreshment Breaks
15:50-16:20	K	Title: Dual Wavelength Laser Processing of Bandgap Materials: Challenges and Opportunities for Efficient Energy Coupling Nadezhda M. Bulgakova, Institute of Physics Czech Academy of Science, Czech Republic
16:20-16:50	K	Title: Compton Nuclear Photonics Sources-Parameters and Potential Vladimir N Litvinenko, Director-Center for Accelerator Science and Education, USA
Scientific Sessions		Optical Sensors, Tomography, Medical Optics and Applications, Novel Laser Technologies & their Applications, Quantized Light Matter Interactions
Session Chair		Vladimir N Litvinenko, Director-Center for Accelerator Science and Education, USA
16:50-17:15	I	Title: Interplay between Crystallography and Nanostructure Generation in Metallic Surfaces treated with a 300 ps UV Laser Luis Porta-Velilla, University of Zaragoza, Spain
17:15-17:40	I	Title: Optical Fibre Sensors for Bio-chemical Sensing Rahul Kumar, University of Highlands & Island, United Kingdom
17:40-18:05	I	Title: Beam Delivery Optics for Laser based Medical Devices Rajender Katkam, Optical Engineer at Blossom Innovations, USA
18:05-18:30	I	Title: Diffuse Optical Tomography reveals a High Accuracy for detecting Movements of Hand Fingers at Gyri Level Estefania Hernandez Martin, University of La Laguna, Spain
P01	Poster	Title: Spin Hall Effect of Light as a Probe to Study Properties of Thin Films and Atomic Layers Janmey Jay Panda, TIFR Hyderabad, India
Closing the Conference for Day 1		

Day-2 | April 25, 2023

Chair		Viacheslav Artyushenko , President of Art Photonics GmbH, Germany
Co-Chair		Aleksander Zidansek , Vice Dean-Jozef Stefan PG School, Slovenia
09:30-10:10	P	Title: New Functionalities through Materials Design in Optical Fibers Gary Pickrell, Board of Directors-CCAM, USA
10:10-10:50	P	Title: New Space Manufacturing for Biophotonics Dmitry Starodubov, CEO of DSTAR Communications, Inc., USA
10:50-11:05		Refreshment Breaks
11:05-11:45	P	Title: Optical Networks Optimization Wahab Almuhtadi, Algonquin College, Canada
11:45-12:25	P	Title: Laser Line Scanning: New Opportunities to Improve Superconducting Properties Luis A Angurel, University of Zaragoza, Spain
12:25-13:05	P	Title: A Physical Modelling Approach to Diffractive Lens Design, Usage, and Implementation James Babington, Specialist-Optical R&D, United Kingdom
13:05-14:05		Group Photo Lunch
14:05-14:35	K	Title: Liquid Crystals and Terahertz Technology Aleksander Zidansek, Vice Dean-Jozef Stefan School, Slovenia
14:35-15:05	K	Title: Photonic Integrated Circuits using Transparent Conductive Oxides: from Materials and Devices to System Integration Tatjana Gric, Semiconductor Physics Institute, Center for Physical Sciences and Technology, Lithuania

15:05-15:35	K	Title: Correlation between Internal Defects and Surface-Texture measured using In-situ Monitoring System in Laser Powder Bed Fusion Additive Manufacturing
Hideki Kyogoku, Director-Laser Additive Center, Japan		
15:35-15:50	Refreshment Breaks	
15:50-16:20	K	Title: Hybridization of Laser Processing for more Resource Efficient Production Scenarios
Vojislav Petrovic Filipovic, Joanneum Research Forschungsgesellschaft mbH, Graz, Austria		
Sessions	Lasers Additive Manufacturing, Laser Beams & Optical Communications, Optics & Lasers in Medicine, Imaging & Holography, Photonics Applications	
Session Chair	Vojislav Petrovic Filipovic, Joanneum Research Forschungsgesellschaft mbH, Graz, Austria	
16:20-16:45	I	Title: High-Power Mid-Infrared Quantum-Cascade Lasers
Grigorii Sokolovskii, Ioffe Institute, St. Petersburg, Russia		
16:45-17:10	I	Title: Using Light in Sensing and Medical Imaging
Imran Akca, VU University of Amsterdam, Netherlands		
17:10-17:35	I	Title: The Influence of Femtosecond Pulsed Laser Irradiation on Structural Properties of BSO Crystal
Marina M. Lekic, Institute of Physics, Belgrade, Serbia		
17:35-18:00	I	Title: In-plane and Out-of-plane Hyperspectral BRDF Measurements using a Supercontinuum Laser
Francois Margall, ONERA-The French Aerospace Lab, France		
18:00-18:25	I	Title: Recent Trends in Photonic Sensors
Philip B Kassey, Co-founder & MD of Petrasys Global Pvt. Ltd, India		
Closing the Conference for Day 2		



Next Event

ISLOP2024

International Summit on Lasers, Optics and Photonics
April 22-24, 2024 | Munich, Germany