

2nd International Summit on Lasers, Optics and Photonics &

2nd International Summit on Graphene and 2D Materials

April 22-23, 2024 | Munich, Germany

Day-1 | April 22, 2024

08:30-09:00		On Spot Registrations
Chair		Houssain Kettani, Professor & Chair of Computer Science, Al Akhawayn University, Morocco
Co-Chair		Friedrich Grimm, MD at RES Institute, Germany
09:00-09:30	P	Title: AI based Machine Vision for Mass Inspection: A Technical and Societal Challenge
00100-00100		Julius Lawson Daku, CEO & Founder of optoPartner, France
09:30-10:00	P	Title: Advancements of Shape Tolerance in Large ZERODUR® Optics Production
		Christian Reis, Head of Development & Application Advanced Optics-SCHOTT, Germany
10:00-10:30	P	<i>Title:</i> Photonics in the Scope of Identity Access Management in Heterogenous IT Infrastructures
		Xenia Bogomolec, CEO & Founder-Quant-X Security & Coding GmbH, Germany
10:30-10:45		Refreshment Break
10:45-11:15	P	Title: Advancing Precise Control of Electromagnetic Radiation: An Innovative Multilayer Nanophotonic Structure for Mid-Infrared Atmospheric Windows
		Sarah S. Sharif, Director-QNETS Laboratory, The University of Oklahoma, USA
11:15-11:45	P	<i>Title:</i> Design, Simulation and Applications of 3D-Printed Micro-Optics
		Alois Herkommer, University of Stuttgart, Germany

11:45-12:15	P	Title: Innovative Graphene-Ceramic Composites
		Katalin Balazsi, Centre for Energy Research, Hungary
12:15-12:45	P	Title: Impacts of Mutual Phase Interactions on Crystal Polarity and Photocatalytic Hydrogen Production
	-	Jrjeng Ruan, National Cheng Kung University, Taiwan
12:45-13:45		Group Photo
12.40-13.43		Lunch Break
13:45-14:10	K	<i>Title:</i> Topology and Symmetry Breaking in Polymer Emitters: A New Route to Electrically Driven Organic Lasing
	N	David Carroll, Wake Forest University, USA
4440440	K	<i>Title:</i> Optimizing DWDM Communication Systems: SOA-Enhanced Fiber Loop Modulation for 50 GHz Optical Frequency Comb Generation
14:10-14:35	•	Mahrokh Avazpour, Dublin City University, Ireland
14:35-15:00	K	<i>Title:</i> Mathematical Modeling of Laser Beam Shaping and Basic Optical Systems
	^	Martijn Anthonissen, Eindhoven University of Technology, Netherlands
15:00-15:25	K	<i>Title:</i> Towards TAMSELs: Tamm Assisted MetaSurface Emitting Lasers
19.00-19.29	A	Edmund Harbord, University of Bristol, United Kingdom
15:25-15:40		Refreshment Break
15:40-16:05	K	Title: Will be updated soon
	/ \	Jinlong Wei, Peng Cheng Laboratory, China

16:05-16:30	K	Title: Bio-Remote Sensing and Integrated Artificial Intelligence Systems
	Λ	Kianoush Rassels, Delft University of Technology, Netherlands
16:30-16:55	K	<i>Title:</i> The Physical Layer Secure Communications and Quantum Key Distribution (QKD) Systems Using Photonics
10.30-10.33	^	Atilla Hasekioglu, BILGEM, TUBITAK, Turkey
10-FE 17-00		Title: Optical Techniques for Biomedical Analysis
16:55-17:20	N .	Paddy French, Delft University of Technology, Netherlands
17:20-17:45	K	<i>Title:</i> Hybrid Prism - A New kind of Lens for Light in the Visible Spectrum as well as for X-rays
11.20-11.40		Friedrich Grimm, MD at RES Institute, Germany
Sessions		3D Printing, Photonics and Applications, Optical Sensors, Quantum Optics & Information, Novel Laser Technologies &
		their Applications
Sessions Chair	<i>'</i>	their Applications Julius Lawson Daku, CEO & Founder of optoPartner, France
Sessions Chair 17:45-18:05	r	
	r I	Julius Lawson Daku, CEO & Founder of optoPartner, France Title: Optical Wavefront Shaping for Mode-Division Multiplexed
17:45-18:05		Julius Lawson Daku, CEO & Founder of optoPartner, France Title: Optical Wavefront Shaping for Mode-Division Multiplexed Transmission
	r 	Julius Lawson Daku, CEO & Founder of optoPartner, France Title: Optical Wavefront Shaping for Mode-Division Multiplexed Transmission Tomohiro Maeda, Aoyama Gakuin University, Japan Title: Study of 405 nm Laser-Induced Time-Resolved
17:45-18:05 18:05-18:25		Julius Lawson Daku, CEO & Founder of optoPartner, France Title: Optical Wavefront Shaping for Mode-Division Multiplexed Transmission Tomohiro Maeda, Aoyama Gakuin University, Japan Title: Study of 405 nm Laser-Induced Time-Resolved Photoluminescence Spectroscopy on Spinel and Alexandrite
17:45-18:05		Julius Lawson Daku, CEO & Founder of optoPartner, France Title: Optical Wavefront Shaping for Mode-Division Multiplexed Transmission Tomohiro Maeda, Aoyama Gakuin University, Japan Title: Study of 405 nm Laser-Induced Time-Resolved Photoluminescence Spectroscopy on Spinel and Alexandrite Wenxing Xu, Independent Researcher, Switzerland Title: Effects of Laser and LED Irradiation on the Growth and

18:45-19:05	Title: SLR Plan for Next Five Year at Shanghai Observatory
10140-1010	Zhongping Zhang, Shanghai Astronomical Observatory, Chinese Academy of Sciences, Shanghai, China
POSTER P01	Title: Hopf-Boundary-Limited External-Cavity Modes and their Transition to Chaosin Semiconductor Lasers with Time-Delayed Optoelectronic Feedback
POSILK POL	Qin Zou, SAMOVAR, TelecomSudParis, France
POSTER P02	Title: Effects of Optical Irradiation with Laser and Led Light Sources on Cell Cultures of Leu-kemia
POSIER PUZ	Danielle Viviana Ochoa Arbeláez, Universidad del Valle, Santiago de Cali, Colombia
POSTER PO3	Title: Design of Membrane of a Biocatalytic Device with Graphene Materials
POSIER POS	Gulzat Demeuova, L.N. Gumilyov Eurasian National University Kazakhstan
	Closing the Conference for Day 1

Day-2 | April 23, 2024

08:30-09:00		On Spot Registrations
Chair		Katalin Balazsi, Head of Thin Film Physics Department, Centre for Energy Research, Hungary
Co-Chair		Fengge Gao, Director of Nanoscience Laboratory, Nottingham Trent University, United Kingdom
09:00-09:30	P	Title: Raman Spectroscopy in Biomedical Research and Diagnostics
	•	Mads S Bergholt, King's College London, United Kingdom
09:30-10:00	P	Title: Cerabyte: Ultra Long-Term Sustainable Data Storage Solution for the Yotta Byte Era
03.30-10.00		Steffen Klewitz, COO-Cerabyte, Germany
10:00-10:30	P	Title: Structural Characterization of Carbon Materials and Semiconductor Devices using Tip Enhanced Raman and Scanning Near-field Raman Spectroscopy
		Masanobu Yoshikawa, President-Toray Research Center, Inc., Japan
10:30-10:45		Refreshment Break
10:45-11:15	P	Title: Photonic Layers for Solar Cells
TO:TJ-TT:TJ		Hugo Aguas, NOVA University of Lisbon, Portugal
11:15-11:45	P	Title: Mid-infrared Laser-based Absorption Spectroscopy for Trace Gas Detection
11.13-11. 13		Simona M. Cristescu, Head of the Life Science Trace Detection Laboratory, Netherlands

11:45-12:15	P	Title: Computing, Medicine, Mobility: How Optics Drive Mega Trends
	•	Patrick Heissler, Chief Strategy Officer-SUSS MicroOptics, Germany
12:15-12:45	P	Title: A Vision outside the Quantum of Light
	•	Jay Robles Pecharroman, CEO & Co-founder of JAYNSTEIN LLC, USA
12:45-13:45		Group Photo
12.40-10.40		Lunch Break
13:45-14:15	D	<i>Title:</i> Nanocarbon Added Ceramics: Current Status and Future Trends
		Csaba Balazsi, Centre for Energy Research, Hungary
14:15-14:45	P	<i>Title:</i> A Theoretical Construction of Graphene by Applying Twin Physics
	•	Anna Backerra, Director-Institute of Theoretical and Applied Micro Magnetism, Netherlands
14:45-15:15	P	Title: High Speed Roll to Roll CVD Graphene and Applications
14:45-15:15		Yongki Kim, CEO-Charmgraphene Co., Ltd., South Korea
15:15-15:45	D	Title: Graphene-like Materials in Tribological Applications
		Andreas Kailer, Head of Wear Protection and Advanced Ceramics at Fraunhofer IWM, Germany
15:45-16:00		Refreshment Break
16:00-16:25	V	<i>Title:</i> Novel Fluorescent Optical Antennas for Visible Light Communication (VLC)
	^	Jacopo Catani, Senior Researcher at CNR-INO, Italy

16:25-16:50 K	Title: Quantum Mechanical Device for the Permanent Enclosure of a Plasma Volume in a Stellarator Type Fusion Reactor
TOILS-TOISO K	Friedrich Grimm, MD at RES Institute, Germany
16:50-17:15 K	Title: Advances in High Performance Computing
16:30-17:13 K	Houssain Kettani, Professor & Chair of Computer Science, Al Akhawayn University, Morocco
17:15-17:40 K	<i>Title:</i> Graphene / Boron Carbide Ceramic Composites Prepared by SPS and Flash Sintering
III.IJ-III.TO K	Pavol Hvizdos, Director-IMR SAS, Slovakia
17:40-18:05 K	Title: Will be updated soon
17.70-10.03 K	Fengge Gao, Nottingham Trent University, UK
POSTER P01	Title: Progress of Laser Time Transfer at Chinese Space Station
I OOILK I OL	Zhibo Wu, Shanghai Astronomical Observatory, Chinese Academy of Sciences, Shanghai, China
POSTER P02	<i>Title:</i> Application of an Industrial-Grade 100-Watt, 300-Kilohertz Picosecond Green Laser for Space Target Laser Ranging
TOSTER TOE	Long Mingliang , Shanghai Astronomical Observatory, Chinese Academy of Sciences, Shanghai, China
POSTER PO3	Title: Advances in the Thermoelectric Measurements of 2D Superconductor Utilizing Contact Printed Circuit Boards
PUSIER PUS	Sanaz Shokri, Institute for Metallic Materials, IFW Dresden, Germany

Closing the Conference for Day 2





3rd International Summit on Graphene and 2D Materials

May 05-07, 2025 | Rome, Italy

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