



2nd International Summit on

OPTICS, PHOTONICS AND LASER TECHNOLOGIES

June 28-30, 2021 | Virtual Event

Time Zone: London (UK) (GMT+1)

DAY-01 JUNE 28, 2021 | LONDON (UK) (GMT+1)

06:45-06:55	AV Check
06:55-07:00	Introduction to the meeting
	Keynote Session
	Session Chair: Koji Sugioka, RIKEN Center for Advanced Photonics, Japan
07:00-07:30	<mark>Koji Sugioka</mark> RIKEN Center for Advanced Photonics, Japan Advanced Femtosecond Laser Micro and Nanoprocessing
07:30-08:00	David J. Moss Swinburne University of Technology, Australia Advanced Applications of Integrated Kerr Optical Microcombs
08:00-08:30	<mark>Gong-Ru Lin</mark> National Taiwan University, Taiwan High-power White Lighting Communication with Tri-color R/G/B Laser Diode Mixing
08:30-09:00	Lukas.W. Snyman UNISA, South Africa On-chip Micro-biochemical Sensors with Si Avalanche Based Leds and Silicon Optical Spectrometric Detectors
09:00-09:30	Dieter Suter TU Dortmund University, Germany Optical Control of Spin Centers in Wide-bandgap Semiconductors
09:30-10:00	<mark>Zhigang Chen</mark> Nankai University, China Nonlinear Control of Topological States in Photonics
10:00-10:15	Break
	Invited Presentations
	Applied Optics and Nanophotonics
	Session Chair: Faiz Rahman, Ohio University, USA
10:15-10:35	Sanbin Chen, North China Research Institute of Electro-Optics, China Pulsed Azimuthally Polarized Beam from Passively Q-Switched Rotating Nd:YAG Disk Laser
10:35-10:55	Chiranjit Ghosh, IIT (ISM) Dhanbad, India Performance Analysis of Dispersion Compensation by Chirped FBG Cascades for 10 X 20 Gbps WDM Systems
10:55-11:15	Jun-Jun Xiao, Harbin Institute of Technology, China Machine Learning for Nanophotonics: A Practice on Metagrating and Metasurface Inverse Design
11:15-11:35	Dongjae Shin, Samsung Advanced Institute of Technology, Korea (South) Bulk-silicon Photonics Targeting DRAM Applications
11:35-11:55	Xiao-Min Hu, University of Science and Technology of China, China Experimental High-dimensional Quantum Teleportation

11:55-12:15	Ning Liu, University of Limerick, Ireland Active Hybrid Nanoplasmonics- explore the Special Optical Modes at the Semiconductor- insulator-metal Interface
12:15-12:35	Faiz Rahman, Ohio University, USA Overcoming Phosphor Heating in Laser Diode-pumped Solid-state Light Sources
12:35-12:55	Maysamreza Chamanzar, Carnegie Mellon University, USA Using Ultrasound to Guide and Steer Light
	Poster Presentation
12:55-13:05	Khaled Hamdy Mohamed Ibrahim, Moscow State University of Technology, Russian Federation Wire Electrical Discharge Machining Optically White or Transparent Al2O3 Ceramics Using Tio2 Powder and Nickel Coating
13:05-13:15	Break
	Young Researcher Presentations
13:15-13:30	Xiang Li, Wuhan university, China A Lidar Denoising Method Using an Optical Vortex
13:30-13:45	Shotaro Noda, Kyoto Institute of Technology, Japan Micro-particle Measurement Using Phase Retrieval Holography
13:45-14:00	<mark>Sedong Kim</mark> , LSTME Busan Branch, South Korea Study on Dispersion and Thermal Conductivity for Surface Treated MWCNTS in Aqueous Solution
14:00-14:15	<mark>Shogo Nuno</mark> , Kyoto Institute of Technology, Japan Rotating Tire Shape Measurement by Sampling Moiré Method
14:15-14:30	Afaf Mahmoud Abd-Rabou, Helwan University, Egypt Advanced Mathematical Model for Temperature Distributions Induced by a Pulsed Laser in Different Target Configurations Using Virtual Sources
14:30-14:45	Paolo Ansuinelli, Delft University of Technology, Netherlands Regularization with a Priori Information for Ptychographic Imaging of EUV Mask Layouts
14:45-15:00	Ngoc-Tan Truong, ENSTA Bretagne (Lab-STICC), France Improving the Quality of the Position of a Receiver by Combining the Robust-extended Kalman Filter and the Long-short-term Memory Technique
15:00-15:15	<mark>Victor Laborde</mark> , Liege Space Center, Belgium Using Multilayers Diffractive Optical Elements for Dual Band Infrared Remote Sensing
15:15-15:30	Alfred Puro, EvroAkademia, Estonia Tensor Tomography of the Residual Stress Field in Graded -index YAG's Single Crystals
15:30-15:45	<mark>Victor Contreras</mark> , Universidad Nacional Autonoma de Mexico, Mexico Visualizing Standing Waves of Single-axis Acoustic Levitators by Rainbow Schlieren Deflectometry
15:45-16:00	Simranjit Singh, Punjabi University Patiala, India Ngpon2 for Future Communication Systems
16:00-16:15	Miaoxin Gong, Lund University, Sweden Fiber-based Stray Light Suppression in Spectroscopy Using Periodic Shadowing
16:15-16:30	Break

	Keynote Session
16:30-17:00	<mark>Yves-Alain Peter</mark> Polytechnique Montréal, Canada Gas Sensing with Optical Microresonators
	Invited Presentations
	Nonlinear Optics and Fiber Optics
17:00-17:20	Thibaut Sylvestre, CNRS, FEMTO-ST Institute, UBFC, France Mid-infrared Fiber-based Supercontinuum Laser Sources
17:20-17:40	<mark>Salman Noach</mark> , Jerusalem College of Technology, Israel External Cavity Raman Laser in the SWIR Spectral Region Based on Tm:YLF / Tm:YAP and KGW Raman Crystal
17:40-18:00	Lubomir Kovachev, Bulgarian Academy of Sciences, Bulgaria Influence of the Longitudinal Ponder-motor Force on the Filamentation Process
18:00-18:20	Nikolay Korneev, INAOE, Mexico The WKB Approximation for Zakharov-Shabat Scattering Problem
18:20-18:40	Jason Fleischer, Princeton University, USA Enhanced Phase Retrieval Using Nonlinearity
	Young Researcher Presentations
18:40-18:55	<mark>Gawarai Dieu-donne</mark> , The University of Maroua, Cameroon Impact of Higher Order Nonlinear Effects on Modulational Instability and Pulse Train Generation in Birefringent Lakshmanan-porsezian-daniel Model
18:55-19:10	<mark>Carlos Wiechers</mark> , Universidad de Guanajuato, Mexico Noble Metal Nanoparticles Size Distribution Reconstruction from VIS-NIR Spectra Using Maximum Likelihood Method
19:10-19:25	Chaoyang Ti, Worcester Polytechnic Institute, USA Turnkey All-fiber Modular Optical Tweezers
19:25-19:40	Deepak Sapkota, University of California, USA Four-wave Mixing in a Triple-core Microstructure Fiber for Parametric Devices

DAY-02 JUNE 29, 2021 | LONDON (UK) (GMT+1)

Keynote Session	
	Session Chair: Francesco Chiavaioli Francesco Chiavaioli, National Research Council of Italy, Institute of Applied Physics "Nello Carrara", Italy
07:00-07:30	<mark>Andrea Cusano</mark> University of Sannio, Italy The Technological Roadmap Towards Multifunctional Plug & Play Platforms
07:30-08:00	Francesco Chiavaioli National Research Council of Italy, Institute of Applied Physics "Nello Carrara", Italy Lossy Mode Resonance in Fiber Optics: Applications and Perspectives
	Invited Presentations
	Advances in Optics and Photonics
	Session Chair: Prashant B. Patel, Instrumentation Department, DIT, India
08:00-08:20	<mark>Gilad Marcus</mark> , Hebrew University of Jerusalem, Israel Carrier to Envelope Phase (CEP) Stable, 2.37µm, Ultrashort Pulses from a Hybrid Parametric - Iaser Amplifier
08:20-08:40	Jagneet Kaur Anand, University of Delhi, India Study of Instantaneous Poynting Vector in Optical Waveguides and Applications in Surface Plasmon Resonance Based Sensors
08:40-09:00	Prashant B. Patel, Instrumentation Department, DIT, India Optical Mach Zehnder Interferometer Sensors
09:00-09:20	Eberhard E. Müller, Technical University Berlin. Germany Bose-Einstein Condensation in an Ideal Photon Gas
09:20-09:40	Marc Dielen, Morphotonics B.V, Netherlands Roll-to-plate Nanoimprint Lithography: Application to Fabrication of High Aspect Ratio Micro-structures
09:40-10:00	<mark>Gianluca Ruffato</mark> , University of Padova, Italy A Novel Insight into Conformal Transformations of Structured Light Beams
10:00-10:20	Etienne Brauns, Retired as Expert Researcher from VITO - Flemish Institute for Technological Research, Belgium On the Impossibility of a Photon to Inherit any Source's Velocity Vector Component, in what ever Direction in Space, Thereby Falsifying the Equivalence Principle for Photons
	Young Researchers Presentations
10:20-10:35	Reza Heydarian, Aalto University, Finland Geometrical Optics Enables Magnified Far-field Subwavelength Imaging by a Simple Glass Microsphere
10:35-10:50	Cesar Abraham Torrico Chavez, Universidad Catolica Boliviana, Bolivia Tricorn-like Structures in an Optically Injected Semiconductor Laser

Poster Presentations	
10:50-11:00	Jing Huang, South China University of Technology, China Statistical Analyses of ASE Noise in Fibers
11:00-11:10	Hui Li, Peking University, China The Ground-based Verification System for Chinese Space Station Ultracold Atoms Gases
11:10-11:20	<mark>Gia-Hong Hong,</mark> National Changhua University of Education, Taiwan Ring Lighting Optic System Design for Fundus Camera
11:20-11:30	Ivan Chelibanov, ITMO University, Russia Photo-Induced Change of 9,10-Diphenylanthracene Polymorphes
11:30-11:40	<mark>Vladimir Chelibanov</mark> , ITMO University, Russia SERS-substrate Based on Mos2 on Copper Demonstrates the Dominance of the Chemical Signal Amplification Mechanism
11:40-11:50	Radi I. Khrapko, Moscow Aviation Institute, Russian Explanation of the Beth's Experiment
11:50-12:00	Tesfay Gebremariam Tesfahannes, Arbaminch University, Ethiopia Optical Micro-cavity and its Application
12:00-12:10	Nagham Shiltagh, University of Kerbala, Iraq The Effect of Silver Nanoparticles on the Mixture of the MB - dye / PVA - polymer by Absorption and Emission Spectra Measurements
12:10-12:40	Break
	Keynote Session
Session Chair:	Francesco Chiavaioli, National Research Council of Italy, Institute of Applied Physics "Nello Carrara", Italy
12:40-13:10	<mark>Dennis K. Killinger</mark> University of South Florida, USA Lidar and Laser Remote Sensing of the Environment
13:10-13:40	<mark>Jianqiu Cao</mark> National University of Defense Technology, China Study on High-power All-fiber Amplifier Operating Near 980 nm
13:40-14:10	Jacob Khurgin Johns Hopkins University, USA What is the Best Medium for Sub-wavelength Field Enhancement?
14:10-14:40	<mark>Yongfeng Lu</mark> University of Nebraska Lincoln, USA Laser Vibrational Excitation of Precursor Molecules in the Growth of Pure and Doped Diamonds
14:40-15:10	<mark>Federico Capasso</mark> Harvard University, USA Compact Quantum Cascade Laser Pumped Molecular Lasers from 200 Ghz to Multi-terahertz

Invited Presentations	
	Lasers in Micro, Nano and Bio Systems and Lightwave Technology
	Session Chair: SIMA Felix, INFLPR - Center for Advanced Laser Technologies, Romania
15:10-15:30	SIMA Felix, INFLPR - Center for Advanced Laser Technologies, Romania Hybrid Laser Technologies for Biomimetic Material Processing
15:30-15:50	<mark>Stephan Krause</mark> , Martin-Luther-University Halle-Wittenberg, Germany Ultra-short Laser Micro-machining by Spatially Shaped Ps- and Fs-Pulses for Depth-Selective μ-TLM Resistivity Test Structures in TCO Contact Layers
15:50-16:10	<mark>Yuliya Kozlova,</mark> RUDN University, Russia Federation Treatment of Hypersensitivity of Dentine of the Teeth with the Use of Diode Laser with Wavelength of 810 Nm
16:10-16:30	<mark>Romana Schirhagl</mark> , University in Groningen, Netherlands Optical Nanoscale Magnetic Imaging for Detecting Stress Responses in Living Cells
16:30-16:50	<mark>Umut Aydemir</mark> , Uludag University, Turkey 2D Materials/Ag Nanoparticles Coated Surface Plasmon Resonance Based U-shaped Fiber Optic Sensors for Bio-sensing Applications
16:50-17:10	Jorge Luis Dominguez Juarez, UNAM, Mexico Microfabrication with Low-Average Power of Green Light to Produce PDMS Microchips
17:10-17:30	Luis Octavio Castanos Cervantes, Tecnologico de Monterrey, Mexico The Quantum Rabi Model with Driving and Dissipation
17:30-17:50	<mark>Matt Kalinski</mark> , Utah State University, USA Multi-Electron Trojan-Like Wavepackets on Synchronous Langmuir Bulb Wire Regular Polygon Trajectories
Young Researchers Presentation	
17:50-18:05	<mark>Hardik Vaghasiya</mark> , Martin-Luther-University Halle-Wittenberg, Germany Theoretical Study and Experimental Validation of Ultra-Short Laser Ablation Mechanism for Silicon Surface Micro-Functionalization

	Optical Communication and Networking Optical Materials, Engineering and Technology
	Young Researchers Presentations
07:00-07:15	Yang Yue, Nankai University, China Challenge and Trend in High-Baud-Rate Coherent Optical Communication Systems
07:15-07:30	<mark>Putu Artawan</mark> , Universitas Pendidikan Ganesha (Undiksha), Indonesia Bi-ellipse Based Microstrip Array Antenna for Radar Communication System
07:30-07:45	Salman Ahmad, COMSATS University Islamabad, Pakistan Lensless Microscopy Using Different Fresnel Zone Plate Photomask Modulation
07:45-08:00	Fırat Diker, Sabancı University, Turkey Deterministic Construction of Arbitrary W States
08:00-08:15	Anastasiia A. Vornovskikh, Far Eastern Federal University, Russian Reactive SPS of SiO2 and LiF-doped Nd3+:YAG Transparent Ceramics
08:15-08:30	Rajagopalan Krishnan, University of the Free State, South Africa Yb3+ Free Phosphor and its Application as a Fingerprint Marker in Forensic Science
08:30-08:45	Nataly Kozak, IMCNASU, Ukraine Photostability and Beam Strength of Polyurethane Matrices for Active Element of Solid- state Dye Lasers
08:45-09:00	Manman Ding, Fudan University, China LD-pumped 3 μm Er:Y2O3 Ceramic Laser at Room Temperature
09:00-09:15	Suwan Sun, Shanghai University, China Cavity Dissipative Structures in Optical Resonators with Transient Loss Perturbation
09:15-09:30	<mark>Xuanxi Li,</mark> Jiangsu Normal University, China Wavelength Tunable Diamond Raman Laser ~2.5 μm
	Invited Presentations
	Session Chair: Raman Sharma, Himachal Pradesh University, India
09:30-09:50	J <mark>inlong Wei,</mark> Huawei German Research Center, Germany Harvesting Machine Learning for High Quality Signal Processing in Data Center Networks
09:50-10:10	<mark>Xujin Yuan,</mark> Beijing Institute of Technology, China Scattering Suppression Mechanism of Random Type Electromagnetic Metamaterials
10:10-10:30	<mark>Yoshiki Nakata,</mark> ILE, Osaka University, Japan Beam Shaping to Extremely Flattop Polygon by Using a Virtual Phase Grating
10:30-10:50	Byoung-Kwon Ahn, Chungnam National University, South Korea High-speed Optical Investigation of Air Jet in Cross Stream Flow

10:50-11:10	Pham Tien Dat, NICT, Japan Optical and Radio Convergence for 5G-and-beyond Networks
11:10-11:30	<mark>Raman Sharma,</mark> Himachal Pradesh University, India Strain Modulated Carrier Mobility and Optical Properties of Graphene Nanowiggles
11:30-11:50	Moustafa H. Aly, Arab Academy for Science, Technology and Maritime Transport, Egypt Optical Communications Illuminates the Future
11:50-12:10	<mark>Elena S. Ignat'eva</mark> , Mendeleev University of Chemical Technology of Russia, Russia Enhanced Luminescence from Ni2+-Doped Germanosilicate Glass-ceramics with High Gallium Content
12:10-12:30	<mark>Jianhong Ke,</mark> Huawei Technologies, Canada Performance Analysis of Transmitter One-sample-per-symbol Approach
12:30-12:50	<mark>Egidijus Vanagas,</mark> Evana Technologies, Ltd., Lithuania Silicon Wafer Cleaving Technology
12:50-13:10	<mark>Sandor Kokenyesi,</mark> University of Debrecen, Hungary Laser Stability and Non-linear Optical Properties of Acrylate Polymer-chalcogenide Glass Nanocomposites for Photonic Applications
13:10-13:25	Break
	Invited Presentations
	Infrared & Applied Spectroscopy Biomedical & Applied Optics
	Session Chair: Masatoshi Kajita, NICT, Japan
13:25-13:45	Aiko Narazaki, Advanced Industrial Science and Technology (AIST), Japan Laser-induced Forward Transfer of Biomaterials Prepared by Biomimetic Process
13:45-14:05	Masatoshi Kajita, NICT, Japan Prospect for the Precision Measurement of Transition Frequencies of Molecular Ions
14:05-14:25	Zhengang Lu, Harbin Institute of Technology, China Electromagnetic Shielding for Optical Transparent Components
14:25-14:45	<mark>Sivarama Krishnan,</mark> Indian Institute of Technology Madras, India Photoelectron Imaging and Multi-coincidence Spectroscopy of Doped Quantum Fluid He Nanodroplets with Extreme Ultraviolet Photons
14:45-15:05	Thomas Marty, Heckenweg 6a, 5430 Wettingen, Switzerland Spectroscopy with Cesium Vapor Cells of the D2 Transition
15:05-15:25	Carlos H. Mastrangelo, University of Utah, USA Microsystems for Smart Adaptive Contact Lenses
	Young Researchers Presentations
15:25-15:40	Zuo Zhiyu, Peking Union Medical College, China Blood Cancer Diagnosis Using Ensemble Learning Based on a Random Subspace Method in Laser- induced Breakdown Spectroscopy
15:40-15:55	Wai Jue Tan, University of Exeter, UK Single vs Double Anti-crossing Phenomena in the Strong Coupling Between Surface Plasmons and Molecular Excitons

15:55-16:10	Lorenzo Lombardi, University of Pavia, Italy Absolute Distance Measurement by a Bistable Ring-laser
16:10-16:25	Kosta Oubrerie, Laboratoire d'Optique Appliquée, France Axiparabola: A New Tool for High Intensity Optics
	Keynote Talk
16:25-16:55	Felix Abt Orell Fussli Security Printing, Switzerland Laser Drilling in Banknote Production
	Invited Presentations
	Applied Remote Sensing, Quantum Electronics, Optoelectronics
	Session Chair: Ali Khenchaf, ENSTA Bretagne (Lab-STICC), France
16:55-17:15	Victor Kulikov, University of Dayton, USA Atmospheric Turbulence Sensing with Single-mode Fiber Transceiver and Moving Target
17:15-17:35	Carmelo Rosales-Guzman, Centro de Investigaciones en Optica, México Generation and Characterization of Complex Vector Modes with Digital Micromirror Devices
17:35-17:55	<mark>Sakineh Chabi,</mark> University of New Mexico, USA Two-dimensional Silicon Carbide: The Emerging Semiconducting Material
17:55-18:15	Kevin Knabe, Vescent Photonics, USA Robust, Field-deployed Laser Modules for Next Generation Quantum Sensors
18:15-18:35	George Yury Matveev, IT Consultant, Denmark Quantum Elliptic Curve
18:35-18:55	Ali Khenchaf, ENSTA Bretagne (Lab-STICC), France Sensors and Oceanic Remote Sensing
Young Researchers Presentations	
18:55-19:10	Saeed Asiri, KACST, Saudi Arabia Quantum-state Reconstruction of a Mechanical Mirror in a Hybrid System
19:10-19:25	Daigo Oue, Imperial College London, UK Electromagnetism at Thermal Equilibrium: A Density Operator Approach
19:25-19:30	Closing Remark

Thank you for connecting !



8105, Rasor Blvd - Suite #112, PLANO, TX 75024, USA Ph: +1-844-395-4102; +1-469-854-2280/81; Fax: +1-469-854-2278 Email: committee@photonicsmeetings.com; contact@uniscigroup.net Web: https://unitedscientificgroup.com/conferences/optics-and-lasers/