

FINAL PROGRAM

The World Conference On

LASER, OPTIC SCIENCE & PHOTONICS

September 03-05, 2020 | Webinar

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<https://www.worldlaseropticconference.com/>

FINAL PROGRAM

DAY - 1

11:30-11:45 Introduction

Keynote Session - 1

11:45-12:30 **TITLE : "STIMULATED EMISSION PROPERTIES OF LEAD HALIDE PEROVSKITES THIN FILMS AUTHOR"**
Marco Anni, Università del Salento, Lecce, Italy

Oral Sessions 1: Featured Technologies in Lasers, Optics and Photonics, Industrial App-Laser and Photonics, Integrated Photonics and photonic materials, Laser Material Science, Nano Materials, Novel Optical Materials and Applications

12:30-13:00 **TITLE : PHOTOMOBILE MATERIALS AND PHOTONIC NANOSTRUCTURES: A WAY TO MANIPULATE LIGHT BY LIGHT**
Giuseppe Nenna, ENEA, Italy

13:00-13:30 **TITLE : LASER-BASED TECHNIQUES IN DIAGNOSTICS, TREATMENTS AND SURGERY**
Karina Litvinova, Aston University Category, UK

13:30-14:00 Lunch Break

14:00-14:30 **TITLE : PROGNOSTIC FACTORS OF THE EFFICIENCY OF ANTITUMOR PLASMON PHOTOTHERMAL THERAPY**
Alla B. Bucharskaya, Saratov State Medical University n.a. V.I.Razumovsky, Russia

14:30-15:00 **TITLE : LASER MATTER INTERACTIONS AT NANOSCALE FOR MULTIFUNCTIONAL APPLICATIONS**
Nandakumar Kalarikkal, Mahatma Gandhi University, India

FINAL PROGRAM

DAY - 1

- 15:00-15:30 **TITLE : LASER INDUCED SELECTIVE ACTIVATION (LISA) IMPROVES ELECTRICAL AND PIEZORESISTIVE BEHAVIOUR OF POLYMER NANOCOMPOSITES**
Enea De Meo, University of Turin, Italy
- 15:30-16:00 **TITLE : SURFACE PLASMON RESONANCE ENHANCED GOLD-CINNAMON NANOCOMPOSITES FOR POTENTIAL ANTIBACTERIAL DRUG DEVELOPMENT: PULSE LASER ABLATION IN LIQUID ASSISTED GROWTH**
Ali Aqeel Salim, Universiti Teknologi Malaysia, Malaysia
- 16:00-16:30 **TITLE : QUANTUM BRAGG MIRROR DETECTOR (QBMD)**
Germano Maioli Penello, Federal University of Rio de Janeiro, Brazil
- 16:30-17:00 **TITLE : STRUCTURAL AND PHOTOLUMINESCENCE PROPERTIES OF YPO₄:CE₃₊ NANOPHOSPHORS : ANNEALING TEMPERATURE EFFECT**
Kahouadji Badis, University of Bejaia, Algeria
- 17:00-17:30 **TITLE : EDGE CONFIGURATIONAL EFFECT ON BAND GAP VALUES IN GRAPHENE NANORIBBONS**
Rakesh Kumar, Indian Institute of Technology Ropar, India

END OF DAY -1

DAY - 2

Keynote Session - 2

- 11:00-11:45 **TITLE: A CHALLENGE FOR LASER CRYSTALS/CERAMICS:ND₃₊/YB₃₊-DOPED LU₂O₃ SESQUIOXIDES**
Georges Boulon, ILM-Claude Bernard/Lyon1 University, France
- 11:45-12:30 **TITLE: INVISIBLE WRITING TECHNOLOGY BASED ON EUV LITHOGRAPHY AND ANTI-COUNTERFEITING MARKING SYSTEM FOR CARDS, DOCUMENTS, ELECTRONIC COMPONENTS AND ARTWORKS**
Paolo Di Lazzaro, ENEA, Italy

FINAL PROGRAM

Oral Session 2: Fibre and Guided Wave Lasers and Amplifiers, Nanophotonics and Biophotonics, laser crystals their physics and properties, Engineering Applications of Spectroscopy, Fiber Optics and Fiber Laser Technologies, Future Drifts in Lasers, Optics and Photonics

12:30-13:00
TITLE: ADVANCED LIQUID CRYSTALLINE ELECTROOPTICAL TRANSDUCERS WITH DEDICATED LIQUID CRYSTALS TO LASER BEAM MODULATION AT A HIGH-TRANSMISSION AND VERY LOW REFLECTION AT VISIBLE, NEAR, SHORT AND MEDIUM INFRARED RANGES.

Wiktor Piecek, Military University of Technology, Poland

12:30-13:00
TITLE: MULTI-ELECTRON NONDISPERSING TROJAN-LIKE WAVEPACKETS ON LANGMUIR CLICK-CLACK BALLS OSCILLATORY MODEL TRAJECTORIES IN THE LINEARLY

Matt Kalinski, Utah State University, USA

13:30-14:00 Lunch Break

14:00-14:30
TITLE: EMISSION CRYSTALS UNDER THE EXCITATION OF ELECTRON BEAMS
Victor Tarasenko, Institute of High Current Electronics SB RAS, Russia

14:30-15:00
TITLE: CRYSTAL STRUCTURE AND UPCONVERSION LUMINESCENCE PROPERTIES OF BARIUM GERMANATES CONTAINING ISOLATED $[Ge_3O_{10}]^{8-}$ UNITS
Olga Lipina, Institute of Solid State Chemistry, UB RAS, Russia

15:00-15:30
TITLE: FIRST OPTICAL TRANSLUCENT CERAMICS BASED ON TRIVALENT RARE EARTH-DOPED CUBIC TUNGSTATES/MOLYBDATES: FABRICATION AND SPECTROSCOPIC CHARACTERIZATION
Malgorzata Guzik, University of Wrocław, Poland

15:30-16:00
TITLE: ENVIRONMENTAL RAMAN SPECTROSCOPY ON GRAPHENE
Yiwei Sun, Queen Mary University of London, UK

16:00-16:30
TITLE: VECTOR ROGUE WAVES IN MODE-LOCKED FIBER LASER
Hani J. Khashi, Aston University, UK

FINAL PROGRAM

- 16:30-17:00 **TITLE: NOVEL HYBRID 2D-3D HETEROSTRUCTURES FOR PHOTODETECTION APPLICATIONS**
Nisha Prakash, CSIR-National Physical Laboratory, India
- 17:00-17:30 **TITLE: PHOTONIC CRYSTAL-BASED OPTOFLUIDIC BIOLASER: AN ULTRA-SENSITIVE DEVICE FOR VIRUS DETECTION**
Mohammad Hazhir Mozaffari, Islamic Azad University, Iran

END OF DAY 2

DAY 3

Keynote Session 3

- 11:00-11:45 **TITLE: NEODYMIUM AND COPPER CONTAINING PHOSPHATE GLASSES FOR THE RUSSIAN PROGRAM OF LASER CONTROLLED FUSION RESEARCH: REQUIREMENTS AND LIMIT PROPERTIES**
Valerii I. Arbuzov, S.I. Vavilov State Optical Institute, Russia
- 11:45-12:30 **TITLE: 3D SUPER-RESOLUTION LABEL-FREE IMAGING**
Ivan Kassamakov, University of Helsinki, Finland

Oral Session 3: Semiconductor Lasers, Tunable and Multi-wavelength Lasers, Optical Tomography and Optical Metrology, Nano-Optics, Bio-Optics and Plasmonics, High Intensity Lasers and High Field Phenomena, Diamond based Photonics and Silicon Photonics, Optical properties of nanostructures, Optical Nanomaterials and Nano-Optomechanics

- 12:30-13:00 **TITLE: PHENOMENON OF RADIATION FLUXES WAVEGUIDE-RESONANCE PROPAGATION AS MANIFESTATION OF THE RADIATION FLUXES SMARTNESS**
Vladimir Egorov, Institute of Microelectronic Technology Russian Academy of Science (IMT RAS), Russian
- 13:00-13:30 **TITLE: FRACTAL DIMENSION ANALYSIS AS A CRITERION FOR INVESTIGATION OF NONLINEAR OPTICAL PROCESSES IN LITHIUM NIOBATE CRYSTALS**
Diana V. Manukovskaya, Tananaev Institute of Chemistry, Russia

FINAL PROGRAM

13:30-14:00 Lunch Break

14:00-14:30 **TITLE: SUB-DOPPLER SPECTROSCOPY OF HD: WHY ASYMMETRIC PROFILES**
Patrick Dupré, Laboratoire Interdisciplinaire Carnot de Bourgogne, France

14:30-15:00 **TITLE: NEW CHARACTERIZATION TECHNIQUES FOR FABRICATED STEP- AND GRADED-INDEX INTEGRATED-OPTIC WAVEGUIDES.**
Pranabendu Gangopadhyay, Indian Institute of Technology, India.

15:00-15:30 **TITLE: ENHANCEMENT OF SURFACE CHARACTERISTICS OF SLM-PRINTED INCONEL 718 PARTS BY POST-PROCESSING**
Dmytro Lesyk, Igor Sikorsky Kyiv Polytechnic Institute, Ukraine

15:30-16:00 **TITLE: LASER PEENING STUDIES ON 304 STAINLESS STEEL SURFACES**
Simge Gencalp Irizalp, Manisa Celal Bayar University, Turkey

16:30-17:00 **TITLE: EFFECT OF GROWTH TIME ON SURFACE AND STRUCTURAL PROPERTIES OF HYDRO-THERMALLY GROWN NANORODS ON SiO_2/Si SUBSTRATE**
Aniruddh Bahadur Yadav, VR Siddhartha Engineering College Kanuru, India

ENDNOTE, CLOSING CEREMONY

Bookmark Your dates from LSP 2021

April 15-17, 2021

We Looking forward to see you in

PRAGUE!

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