



**Linkin
Science**

Exploring & Connecting Science

Tentative Agenda

**GLOBAL CONGRESS & EXPO ON
ADVANCEMENTS OF LASER, OPTICS & PHOTONICS**

March 25th-27th, 2019/ Valencia, Spain

HOSTING ORGANISATION

Linkin Science Pvt. Ltd

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INDICO

00:00 -00:00 **Opening Ceremony**
00:00 -00:00 **Introduction**

Keynote Session

Title: Nanostructures for Flying q-bits and Green Photonics
Dieter H Bimberg, Technical University Berlin, Germany and
Chinese-German Center for Green Photonics of the CAS at CIOMP, Changchun

Title: State of the art of lidar imaging for autonomous vehicles
Santiago Royo, Universitat Politècnica de Catalunya, Spain

Title: Biomedical optoacoustic imaging: Exponential growth from the first ideas to clinical trials
Alexander A Oraevsky, CEO, TomoWave Laboratories, USA

Keynote Slots Available

Keynote Slots Available

Keynote Slots Available



Coffee Break

Special Session

Title: Infrared Optical Fibers for passive and active applications: The Challenges to bring the technology to the market.
Mohammed Saad, Senior Scientist, Thorlabs, USA

Title: Super pulsed regimes of diode and fiber lasers for surgical and therapeutic medical applications
Ilya Yaroslavsky, Manager of Advanced Product Development, IPG Photonics, USA

Short Course

Title: High-Speed Optical Transceiver Technology for Data Centers
Ricardo Saad, R&D Director at Lumentum, USA and, Senior lecturer III at
University of Texas at Dallas, USA



Lunch Break

Oral Presentations

Title: Second harmonic generation in spatially randomized crystals: application to ultrashort pulse characterization

Crina Cojocaru, Universitat Politècnica de Catalunya, Spain

Title: Embedding the photon with its relativistic mass as a particle into the electromagnetic wave explains the Gouy phase shift as an energetic effect

Konrad Altmann, LAS-CAD GmbH, Germany

Title: The prospect of a green laser based on AlGaIn/AlIn structures heavily doped with silicon

Konstantin Zhuravlev, Rzhanov Institute of Semiconductor Physics SB RAS, Russia

Title: Quantum sustainability phenomenon in optical systems and its applications

Konstantin Zloshchastiev, Durban University of Technology, South Africa

Title: Fiber Optical Sensors for Medicine, Robotics and Smart Factories

Wolfgang Schade, Fraunhofer HHI, Germany Clausthal University of Technology, Germany

Title: 5 J, 200 Hz Nd:YAG laser system with high beam quality

Jie Li, Chinese Academy of Sciences, China



Title: Dynamic Rotative Ferroelectricity of Trojan Electrons on Multiple Parallel Interacting Regular 2 -dimensional Lattices

Matt Kalinski, Utah State University, USA

Title: Design considerations of electronic-photonic integrated front-ends for high data rate digital communications

Xin (scott) Yin, imec - Ghent University, Belgium

Title: Fibre taper coated with zinc and bismuth chalcogenides thin film heterostructure

Konstantin M Golant, Russian Academy of Sciences, Russian Federation

Title: Tunable and reconfigurable integrated filter based on long-period waveguide grating

Ailing Zhang, Tianjin University of Technology, China

Speaker Slots Available

Speaker Slots Available

Speaker Slots Available

Speaker Slots Available

INDICO

Keynote Session

Title: Healing with Light: The potential of Photodynamic Therapy

Jose Miguel López-Higuera, Photonic Engineering Group of Universidad de Cantabria, CIBERBBN and IDIVAL, Spain

Title: Lab-on-a-chip Spectroscopy: Learning the structural complexity

Maxim S. Pshenichnikov, Zernike Institute for Advanced Materials, University of Groningen, The Netherlands

Title: Next Generation Ophthalmic Imaging

Manish D Kulkarni, Chief Executive Officer, Diagnostic Solutions & Systems, USA

Title: Long-range optical interactions

Gershon Kurizk, Weizmann Institute of Science, Rehovot, Israel

Title: Wavelet Packet Transform (WPT) Applications in High Spectral Efficiency (SE) Optical Communication Systems

Yossef Ben Ezra, Holon Institute of Technology (HIT), Israel Cellowireless LTD, Holon, Israel



Coffee Break

Title: Lab-on-a-Chip Photonic Biosensors for Point-of-Care Applications

Aurel Ymeti, CEO at Nanoalmyona BV, Netherlands

Keynote Slots Available

Keynote Slots Available

Special Session

Title: Laser texturing of alloy surfaces towards self-cleaning applications

Bekir Sami Yilbas, King Fahd University of Petroleum and Minerals, KSA

Short Course

Title: High-Speed Optical Transceiver Technology for Data Centers
Ricardo Saad, R&D Director at Lumentum, & University of Texas at Dallas, USA



Lunch Break

Workshop Session

Title: All-fiber terahertz time domain spectroscopy system
Chunchao Qi, China Communication Technology Co., Ltd, China

Oral Presentations

Title: Real-time up conversion to the visible of 2D infrared images
Juan Capmany, Universidad Miguel Hernández, Spain

Title: Ultraportable nanostructured sensors for point-of-use biochemical applications
Carlos Escobedo, Queen's University, Canada

Title: Integrated optical imaging and spectroscopy approach for biological tissue characterization in the spatial frequency domain
David Abookasis, Ariel University, Israel

Title: Ordered Layer of Spherical Particles: Scattering and Absorption of Light
Valery Loiko, Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Belarus

Speaker Slots Available

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CLOSING CEREMONY

INDICO

Keynote Session

Speaker Slots Available

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Speaker Slots Available

Oral Presentations

Title: Stacked glass block connectors for high power photonic modules
Zamora Gómez, Alethea Vanessa, Fraunhofer IZM, Germany

Title: Active alignment tolerance of space off-axis TMA telescope based on secondary mirror
Ma Hongcai, Chinese Academy of Science, China

Title: Nonlinear transient techniques for characterization of 1.5 μm optical transitions of the acetylene in hollow-core microstructured fibers
Manuel Ocegueda, Autonomous University of Baja California, Mexico

Title: Non Linear Spectroscopy Applied to Elaboration of Ultra Low Sulfur fuels
Eduardo Perez Careta, University of Guanajuato, Mexico

Title: Phase quantification techniques for to study biological samples
Freddy Monroy-Ramirez, Universidad Nacional de Colombia, Colombia

Title: Few-mode erbium doped fiber amplifier for space division multiplexing based optical communication system
Ankita Gaur, M. L. V. Textile & Engineering College, India

Title: Peak to average power ratio (papr) reduction in wireless system in fading channels
Himanshu Monga, Jawaharlal Nehru Govt. Engineering College, India

Title: Evaluation of Plasma Parameters and Elemental Analysis of Nanoparticles of SiO₂, SiO₂ CdTiO₃, CoTiO₃ using Laser Induced Breakdown Spectroscopy

Muhammad Abrar, Hazara University, Pakistan

Title: High power 1018-nm fiber laser using low core/cladding ratio of 20/400 μ m Yb-doped fiber with output of 472 W

Hossein Fathi, Shahid Beheshti University, Iran

Title: Supercontinuum Generation by Amplification of Noise-like Pulses in Nonlinear Yb-doped Fiber Amplifier

Ebrahim Aghayari, Azarbaijan Shahid Madani University, Iran

Title: Numerical Comparison of CO₂ and Fiber Laser Welds at Different Power Inputs

Sohail Muhammad, NED University of Engineering and Technology, Pakistan

Title: Effect of Porous Silicon Carbide on the Resonant Coupled Modes in a Multilayer Sensing Nanocavity

Bouhafs Benamar, University of Tlemcen, Algeria

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Coffee Break

Workshop Session

Title: 2D Mono detection spatially super resolved microwave imaging for Radar applications
Gabay Isahar, Bar Ilan University, Israel



Lunch Break

Young Researcher Forum

Title: Active control of terahertz wave based on metasurface
Jie Ji, Huazhong University of Science and Technology, China

Title: Differential equations for electromagnetic turbulence
Aamod Shanker, University of California, Berkeley, USA

Title: Engineering optical fields in the far-field and near-field
Ran Chen, Dalhousie University, Canada

Title: Digital Holographic Microscopy associated with Traction Force Microscopy applied to the local analysis of cardiomyocytes contractility
Isis Vasconcelos De Brito, University of São Paulo, Brazil

Title: Investigation of temperature dependent optical spectral properties of polysiloxane polymers used in high-power fiber optics
Renata Ismagilova, Russian Academy of Sciences, Russia

Title: Design of all-optical logic gates using Kerr effect inside plasmonic waveguide based MZI
Lokendra Singh, DIT University, India



Title: Applications of exceptional points in photonic, atomic, and solid-state system

Adi Pick, Harvard University, USA

Title: Trace Detection of Exhaled Breath N₂O and Dissolved N₂O in Human Gastric Juice Using External Cavity Quantum Cascade Laser Operating at 7.6 μ m

Mithun Pal, SN Bose National Centre for Basic Sciences, India

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Poster Presentation

Title: The improvement of the polarization extinction technique by using polarization beam splitter for measuring amplifier spontaneous emission in optical amplifier

Ji Bian, Fudan University, China

Title: Optically controlled terahertz modulator by Formamidinium Lead Iodide (FAPbI₃)

Wang Weijun, Huazhong University of Science and Technology, China

Title: Optical modulation of PZT/LNO thin films with different periodic structures in the terahertz range

Ying Zeng, Huazhong University of Science and Technology, China

Title: Laser radiation power sensor with adjustable dynamic range based on the copper-coated silica optical fiber

Ivan Khramov, Moscow Institute of Physics and Technology, Russia

Title: High-power laser beam profile measurements based on the matrix array of the copper-coated passive optical fibers

Nikolay Vanyushkin, Moscow Institute of Physics and Technology, Russia

Title: Measurement of optical absorption coefficients of nonlinear optical materials using piezoelectric crystal oscillator circuits

Kirill Zotov, Moscow Institute of Physics and Technology, Russia

Title: Piezoelectric resonator for temperature measurement of metal-dielectric heterostructures interacting with laser radiation

Ilya Savichev, Moscow Institute of Physics and Technology, Russia

Title: The study on optofluidic fluorescence resonance energy transfer lasing in a pdms microfluidic channel

Xiaoyun Pu, Yunnan University, China

Title: Evaluation the effect of low Level laser on liposomes containing chemotherapy drug (Docetaxel) & compare with prescribed chemotherapy drugs (Docetaxel) procedure in prostate cancer cells in vitro

Ehsan Kamani, Iran

Title: Acousto-Optic Tunable Filter-based Remote Sensing system Characterization Guidelines

Ramy Abdlaty, Military Technical College, Egypt

Title: Fabrication of microchannels in polyethersulfone (PES) substrate with Nd:YAG laser

Hedieh Pazokian, University of Technology, Iran

Title: CO₂ laser radiation effects on LDPE films of different compositions

Rosario González Mota, Instituto Tecnológico de Aguascalientes (TecNM/ITA), Mexico

Title: Frequency stabilized lasers for gauge block interferometer

Taebong Eom, Korea Research Institute of Standards and Science, Republic of Korea

Title: Projected fringes method to identification of the mechanical discontinuities in metallic materials

Mishraim Sanchez Torres, Universidad Autónoma de Baja California, Mexico

Title: Piezoelectric resonance laser calorimetry of LBO crystals in vacuum

Irina Shebarshina, Moscow Institute of Physics and Technology, Russia

Title: Three dimensional optical data storage in polymers using femtosecond laser pulses

Am Alshehri, King Khalid University, Saudi Arabia

Poster Slots Available

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CLOSING CEREMONY

City Attractions





Venue : TRYP Valencia Oceanic

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