EuroSciCon

European Conference on Lasers, Optics and Photonics

February 21-22 **2020**

Amsterdam, Netherlands



EURO OPTICS 2020

https://optics.euroscicon.com/

Day 1, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Classical Optics**	Talks On: **Physical Optics**	Talks On: **Modern Optics**
	Talks On: **Atmospheric OpticS**	Talks On: **Photonic Integrated Circuits**	Talks On: **Photonic Systems**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Organic Photonics**	Panel Over: **Organic Lasers**	Panel Over: **Waveguide Optics**
	Workshop On: **Photonic Crystal Fiber**	Workshop On: **Optical Medium**	Workshop On: **Nuclear Science**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Laser Science**	Talks On: **Laser Diode**	Talks On: **Laser Safety**
	Lectures on: **Optical Interferometers**	Lectures on: **Laser Systems**	Lectures on: **Optical Communications And Networking**
06:00 PM	Session On: **Optics and Lasers in Medicine**	Session On: **Optical Physics**	Session On: **Optical Fiber**
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Day 2, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Optoelectronics**	Talks On: **Nanophotonics And Biophotonics**	Talks On: **Surface Enhanced Spectroscopy (SES)**
	Talks On: **Fiber Laser Technology**	Talks On: **Fibre Optic Communications**	Talks On: **Implementation of Lasers, Optics and Photonics**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Laser Technology**	Panel Over: **Optical Imaging and Sensing**	Panel Over: **Industrial Applications of Lasers**
	Workshop On: **Optical Techniques**	Workshop On: **Optoelectronic Device**	Workshop On: **Plasma Science**
	Lunch Break @ Restaurant	*Lunch Break @ Restaurant*	*Lunch Break @ Restaurant*
04:00 PM	Talks On: **Quantum Sensor**	Talks On: **Signal Processing**	Talks On: **Spectrum**
	Lectures on: **Wavelengths**	Lectures on: **Applied Optoelectronics**	Lectures on: **Optical Technologies**
06:00 PM	Session On: **Mergers & Acquisitions**	Session On: **High-Speed Networks**	Session On: **Laser Focus World**
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Agenda Day 1: May 09, 2019

Hall Name: **Meeting Room 4+5**

08:00-09:00 **Registration**

09:00-09:30 Opening Ceremony

Keynote Forum

09:30-10:15 **Title: Terahertz Light Emission and Lasing in Current-Driven Graphene-based 2D Nano- and Plasmonic-Structures**
Taiichi Otsuji, Tohoku University, Japan

10:15-11:00 **Title: The physical metric in general relativity, size of black holes and neutron stars and the existence of dark matter**
Yukio Tomozawa, University of Michigan, USA

Group Photo

Coffee Break: 11:00-11:20 @Conference lounge

11:20-12:05 **Title: Quantum Mechanics as the theory of relativity of the quantized matter**
Eliade Stefanescu, Romanian Academy, Romania

Session Introduction

Quantum Mechanism In Plasma | Plasma Medicine

Session Chair: Eliade Stefanescu, Romanian Academy, Romania

12:05-12:35 **Title: The origin of the existence of plasma according to twin physics**
Anna Backerra, The Netherlands

12:35-13:05 **Title: Laser Ablation in Organic Precursors and Atmospheric Plasma Polymerization: a Convenient Combination for Synthesis of Hybrid Antibacterial Coatings**
Maxime Delmee, Luxembourg Institute of Science and Technology, Luxembourg

Lunch Break: 13:05-14:05 @Restaurant

Special Session

Plasma Physics

14:05-14:50 **Title: Quantum scalar gravity, general relativity, quantum mechanics, the life force and multi-dimensional motion of objects within a cosmic scalar flow**
Timothy Fulton Johns, University of Temmessee Health Sciences, USA

Session Introduction

Fiber Laser Technology

Session Chair: Mahamad Saad, Senior Scientist R&D department Thorlabs Inc., USA

14:50-15:20 **Title: Mid Infrared Optical fibers for Fiber Lasers: Fluoride glass Fibers**
Mahamad Saad, Senior Scientist R&D department Thorlabs Inc., USA

15:20-15:50 **Title: Picometer scale bandwidth optical bandpass filtering in prism pair coupled planar optical waveguide**
Jianhua Liu, Fudan University, China.

15:50-16:20 **Title: Experimental investigation and numerical analysis for water-based ultrasonic-assisted laser drilling and trepanning with/without magnetic assistance**
Houxiao Wang, Jiangsu University, China

Video Presentation

Hydrodynamics

16:20-16:45 **Title: The ideas on development of instability**
Igor V Lebed, Institute of Applied Mechanics- Russian Academy of Science, Russia

Poster Presentation

POS **Title: Design and analysis of a high accuracy bidirectional thermal deformable mirror**
Ni lei, Southwest University of Science and Technology, China

Coffee Break: 16:45-17:15 @Conference lounge

Panel Discussion

Day Ends

Agenda Day 2: May 10, 2019

Hall Name: Meeting Room 4+5

Keynote Forum

10:00-10:45 **Title: Implications for Discovery of Strong Radial Magnetic Field at the Galactic Center**
Qiu- He peng, Nanjing University, China

Coffee Break: 10:45-11:05 @Conference lounge

11:05-11:50 **Title: Information entropy in confined atomic systems**
Amlan Kusum Roy, Indian Institute of Science Education and Research, India

Session Introduction

Optics and Lasers in Medicine | Plasma Physics

Session Chair: Claudio Verzegnassi, Association Medicine and Complexity (AMeC), Italy

11:50-12:20 **Title: Analogies of magnetic effects on human muscles and on EZ water. QFT calculation for free chiral electrons. Experimental project**
Claudio Verzegnassi, Association Medicine and Complexity (AMeC), Italy

12:20-12:50 **Title: Does dark matter really exist?**
Yukio Tomozawa, University of Michigan, USA

Lunch Break: 12:50-13:50 @Restaurant

Session Introduction

BioPhotonics| Geophysics

Session Chair: Claudio Verzegnassi, Association Medicine and Complexity (AMeC), Italy

13:50-14:20 **Title: Fluorescent nanoprobes for rapid biomarker mRNA detection at single cells**
Yu Chen, Centre for Molecular Nanometrology-University of Strathclyde Glasgow, UK

14:20-15:50 **Title: Orbital space: probable systematic approach of satellite signal barriers**
Uttam Banik, Bangladesh University of Professionals, Bangladesh

Video Presentation

15:50-16:20 **Title: A few calculation of receding moon from spherical kinetic dynamics, receding planetary orbits, and the quantization of celestial motions**
Victor Christianto, Malang Institute of Agriculture (IPM), Indonesia

16:20-16:50 **Title: Rock wars-we can win with silicon**
Douglas R McCarter, McCarter Technology Inc, USA

Coffee Break: 16:50-17:10 @Conference lounge

The role of growth temperature, V/III ratio and CBr4 flow on carbon doped p-GaAs epilayers
Alev Kizilbulut
Cumhuriyet University, Turkey

Cosmic dark matter fractal field theory
T Fulton Johns
University of Tennessee Health Sciences, USA

Pulsar identification of background spectra of LIGO data
Yukio Tomozawa
University of Michigan, USA

Coupling of two oscillations of close frequencies in a high pressure plasma enclosed in a spherical bulb
Gilles Courret
University of Applied Sciences and Arts Western, Switzerland

LiDAR Data Analysis for Automatic Region Segmentation and Object Classification
Prof. Vijayan Asari
University of Dayton, USA

Light-Matter Interaction in Graphene Nanohybrids and their Application of Nanosensors and Nanoswitches
Mahi R. Singh
University of Western Ontario, Canad

Iterative method of dual-wavelength laser ratio for particle spectrum
Cao Nianwen
Nanjing University of Information Science & Technology, China

Optical Choas: dynamical complexity of delay-coupled semiconductor Lasers system
Pramod Kumar
University of Exeter, UK

Advances in the development of compact laser sources for imaging, diagnostics and treatment in biomedicine
Edik U. Rafailov
Aston University, U.K

Antimonide quantum materials for laser applications
Qiandong zhuang
Lancaster University, UK

Optimized Synthesis and Assessment of Fluorescent Dye-Labelled Nanosystems
Katel Herve-Aubert
University of Tours, France

Deuteron States Model
Gudrun Kalbach
MINT, Germany

Iterative method of dual-wavelength laser ratio for particle spectrum
Cao Nianwen
Nanjing University of Information Science & Technology, China

Terahertz light emission and lasing in graphene under current-injection pumping
Taiichi Otsuji
Tohoku University, Japan

Analytical commutation of electrical equalizer in on-off-keying optical communication systems
Gilad Katz
Holon Institute of Technology, Israel

Self-Assembled Organic/Polymeric Microlasers and Photoswitchable Arrays
Yohei Yamamoto
University of Tsukuba, Japan

An Analysis on Absolute Velocity
Jiang Yu
China pharmaceutical university, China

Synthesis, Characterization, Swelling Kinetis And Mechanism Of Chitosan-Starch Hydrogels And Their Crosslinked Counterparts As Potential Organic Photoelectronic Systems
Akakuru Ozioma
Ningbo Institute of Materials Technology, China

Enhancing the measurement-device-independent quantum key distribution using heralded single-photon sources
Prof. Qin Wang
Nanjing University, China

Monolithic III-nitride photonic circuit for multifunctional system
Yongjin Wang
Nanjing University, China

Spectrum-polarization encoding for broadband laser pulses basing on rotatory dispersion and its possible applications
Shixiang Xu
Shenzhen University, China

New technologies based on new materials
Apollonov Victor Victorovich
A.M. Prokhorov General Physics Institute of RAS, Russia

Enhanced Optical Processes and a Strong Quadrupole Light-Molecule, Matter Interaction
Aleksey Mikhailovich Polubotko
A. F. Ioffe Physico-Technical Institute, Russia

Femtosecond laser direct writing of crystal-in-glass $LaBGeO_5$ waveguides
Dr. Sergey Lotarev
Mendeleev University of Chemical Technology, Russia

Ultrafast laser-induced inscription of nanogratings in alkali silicate glasses
Sergey Fedotov
Mendeleev University of Chemical Technology, Russia

Laser-Assisted Precipitation Of Metal And Semiconductor Nanopartcles In Oxide Glass
Mr. Maxim Vetchinnikov
Mendeleev University of Chemical Technology, Russia

Laser Writing Of Crystalline Tracks In Barium Tianosilicate Glass By Femtosecond Laser Beam Waist With Elliptical Cross Section
Mr. Ivan Moiseev
Mendeleev University of Chemical Technology, Russia

Nonlinear Single Mode Waveguide Inscribed by a Femtosecond Laser in Tellurite Glass
Dr. Mikhail Smayev
Mendeleev University of Chemical Technology, Russia

Monte Carlo simulation of Raman scattering in biological tissues
Masafumi Jo
Quantum Optodevice Laboratory, Japan

Twisted Optical and Microwave Near Fields for Probing Chirality of Biological Structures
Eugene Kamenetskii
Microwave Magnetic Laboratory, Russia

Surface Electromagnrtic Waves: Past, Present, Future
Vladimir Datsko
Institute of Applied Geophisics, Russia

RGB wavelength demultiplexer based on photonic crystal fiber
Dror Malka
MostlyTek LTD, Israel

A new spectroscopy based upon 3D photonic quantum ring lasers for non-invasive and portable brain heart disease diagnostic techniques
O'Dae Kwon
Korea University, South Korea

Sol-gel Materials for Optical Applications
David Levy
Instituto de Ciencia de Materiales de Madrid, Spain

Multiple-parameter optical sensing based on a fiber laser source and fiber gratings family
Prof. Shien-Kuei Liaw
National Taiwan University, Taiwan

Pulsed MOVPE Growth of High Quality AlGaN epilayers for Ultraviolet LED Applications
İLKAY DEMİR
Cumhuriyet University, Turkey

Growth and characterization of epitaxially Grown GaN layer on Patterned sapphire substrate
Ismail Altuntas
Cumhuriyet University, Turkey

The Role of Growth Temperature, V/III Ratio and CBr4 flow on Carbon Doped p-GaAs Epilayers
ALEV KIZILBULUT
Cumhuriyet University, Turkey

Entanglement of Nanoresonators
Prof. Mahmoud Abdel-Aty
Applied Science University, Bahrain

Analytical commutation of electrical equalizer in on-off-keying optical communication systems
Gilad Katz
Holon Institute of Technology, Israel

Physicochemical, Spectral-Luminescent and Lasing Properties of Yb-containing Huntite-Like Glass
Dr. Georgii Malashkevich
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City Attractions







