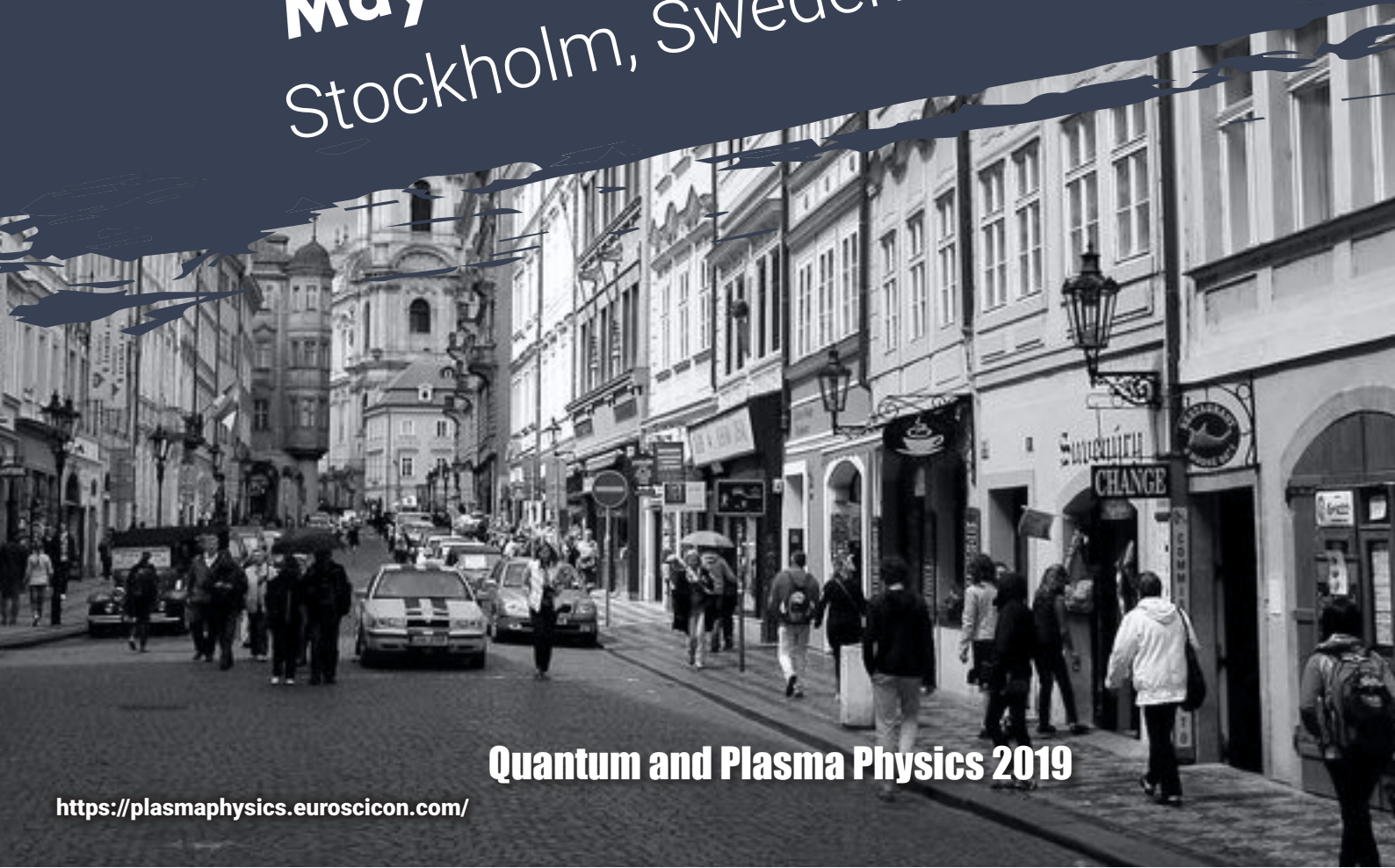
EuroSciCon

European Conference on Quantum and Plasma Physics

May 09-10 2019

Stockholm, Sweden



Quantum and Plasma Physics 2019

https://plasmaphysics.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: **Quantum Physics**	Talks On: **Quantum mechanism in Plasma**	Talks On: **Quantum theory and computation**
	Talks On: **Quantum Technology**	Talks On: **Quantum optics**	Talks On: **Schrodinger equation**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Plasma Physics**	Panel Over: **Condensed matter physics- semi conductors**	Panel Over: **Atomic Physics**
	Workshop On: **Applied Physics**	Workshop On: **Metrology and Instrumentation**	Workshop On: **Plasma and Gas discharge physics**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Electromagnetic Waves**	Talks On: **Plasma Cosmology**	Talks On: **Quantum Chromodynamics**
	Lectures on: **Plasma in Geology**	Lectures on: **Hydro dynamics and Hydro magnetic stability in Plasma**	Lectures on: **Plasma Communication**
06:00 PM	Session On: **Plasma Antennas**	Session On: **Plasma Medicine**	Session On: **Plasma Surface Activation**
	EURO OPTICS	**EURO OPTICS**	**EURO OPTICS**

Day 2, Agenda

General Session

08:00 AM — INTRODUCTION

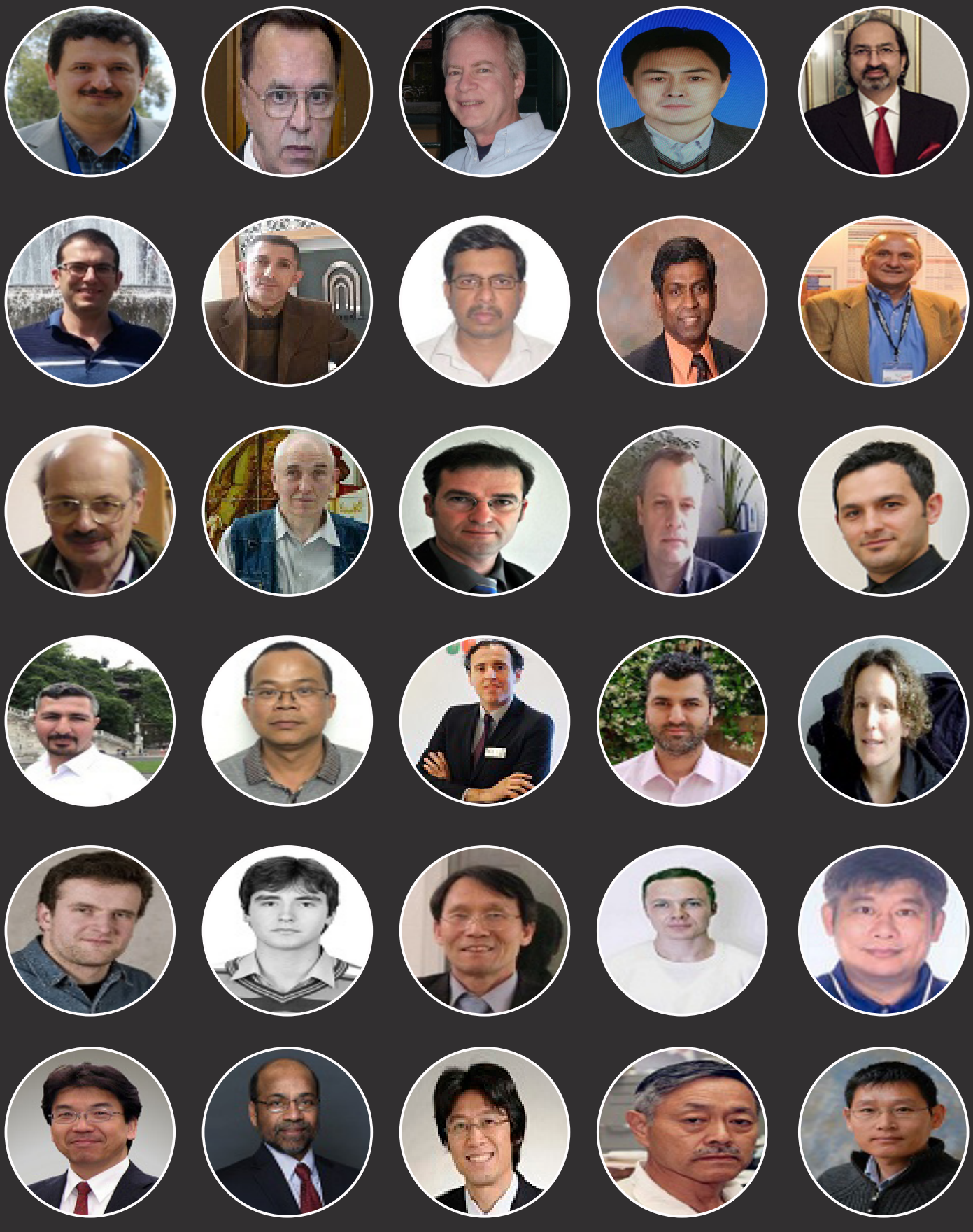
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Past Affiliates and Scientific Program



Agenda Day 1: July16, 2018

Hall Name: Eden

08:00-08:15 Registrations

08:15-08:30 Opening Ceremony

Keynote Session

08:30-09:10 **Title: Terahertz light emission and lasing in graphene under current-injection pumping**
Taiichi Otsuji, Tohoku University, Japan

09:10-09:50 **Title: Pulsar identification of background spectra of LIGO data**
Yukio Tomozawa, University of Michigan, USA

09:50-10:30 **Title: LIDAR data analysis for automatic region segmentation and object classification**
Vijayan Asari, University of Dayton, USA

10:30-11:10 **Title: Sol-gel Materials for Optical Applications**
David Levy, Instituto de Ciencia de Materiales de Madrid, Spain

Group Photo 11:10-11:20

Coffee Break: 11:20-11:40 @ Foyer

Special Session

11:40-12:20 **Title: Technology trends of the European industry in lasers and optics**
Jose Pozo, EPIC – European Photonics Industry Consortium, Netherlands

12:20-13:00 **Title: High resolution X-Ray spectroscopy and atomic physics of high energy density plasmas using transmission-crystal spectrometers in the 6-100 keV energy range**
John Seely, National Institute of Standards and Technology, USA

Lunch Break: 13:00-14:00 @ Mezzo Restaurant

14:00-14:40 **Title: 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

Optical Communications and Networking | Atmospheric Optics| Optoelectronics | Optics and Lasers in Medicine | Surface Enhanced Spectroscopy | Biophotonics | Optical Physics | Nuclear Science

Session Chair: Aleksey Mikhailovich Polubotko, A. F. Ioffe Physico-Technical Institute, Russia

Session Co-Chair: Georgii Malashkevich, B.I. Stepanov Institute of Physics, Belarus

14:40-15:00 **Title: Antimonide quantum materials for laser applications**
Qian-Dong Zhuang, Lancaster University, UK

15:00-15:20 **Title: A new spectroscopy based upon 3D photonic quantum ring lasers for non-invasive and portable brain heart disease diagnostic techniques**
O'Dae Kwon, Pohang University of Science And Technology (POSTECH), South Korea

15:20-15:40 **Title: Self-assembled organic/polymeric micro lasers and photo switchable arrays**
Yohei Yamamoto, University of Tsukuba, Japan

15:40-16:00 **Title: Iterative method of dual-wavelength laser ratio for particle spectrum**
Cao Nianwen, Nanjing University of Information Science & Technology, China

Coffee Break & Poster Presenattions 16:00-16:20 @ Corridor

LOP&APS-01 **Title: Optimized Synthesis and Assessment of Fluorescent Dye-Labelled Nanosystems**
Katel Herve-Aubert, University of Tours, France

16:20-16:40 **Title: Analytical commutation of electrical equalizer in on-off-keying optical communication systems**

Gilad Katz, Holon Institute of Technology, Israel

Young Research Forum 16:40-17:40

16:40-16:55 **Title: Growth and characterization of epitaxially grown GaN layer on patterned sapphire substrate**

Ismail Altuntas, Cumhuriyet University, Turkey

16:55-17:10 **Title: The role of growth temperature, V/III ratio and CBr4 flow on carbon doped p-GaAs epilayers**

Alev Kizilbulut, Cumhuriyet University, Turkey

17:10-17:25 **Title: Laser-assisted precipitation of metal and semiconductor nanoparticles in oxide glass**

Maxim Vetchinnikov, Mendeleev University of Chemical Technology, Russia

17:25-17:40 **Title: Ultrafast laser-induced inscription of nanogratings in alkali silicate glasses.**

Sergey Fedotov, Mendeleev University of Chemical Technology, Russia

17:40-17:50 **Discussion Time**

17:50-18:00 **Chairman's Summing Up**

Panel Discussion

Agenda Day 2: July 17, 2018

Hall Name: Eden

Keynote Session

09:00-09:40 **Title: Advances in the development of compact laser sources for imaging, diagnostics and treatment in biomedicine**

Edik U. Rafailov, Aston University, U.K

09:40-10:20 **Title: Surface-enhanced optical processes and a strong quadrupole light-molecule, matter interaction**

Aleksey Mikhailovich Polubotko, A. F. Ioffe Physico-Technical Institute, Russia

10:20-11:00 **Title: Advances in CAOS Camera Imaging**

Nabeel Riza, University College Cork, Ireland

Coffee Break: 11:00-11:20 @ Foyer

11:20-12:00 **Title: RGB wavelength demultiplexer based on photonic crystal fiber**

Dror Malka, MostlyTek LTD, Israel

12:00-12:40 **Title: Ray tracing propagation of lasers in a continuous turbulent atmosphere**

Itay Naeh, Rafael Advanced Defense Systems LTD, Israel

Session Introduction

Laser Systems | Photonic Systems | Optical Medium | Optical Interferometers | Nanophotonics and Biophotonics | Plasma Science | Organic Photonics | Organic Lasers

Session Chair : Vijayan Asari, University of Dayton, USA

Session Co-Chair : O'Dae Kwon, Pohang University of Science And Technology (POSTECH), South Korea

12:40-13:00 **Title: Nano scales tilt measurement using a cyclic interferometer: New developments**

Charles Joenathan, Rose-Hulman Institute of Technology, USA

Lunch Break: 13:00-14:00@ Mezzo Restaurant

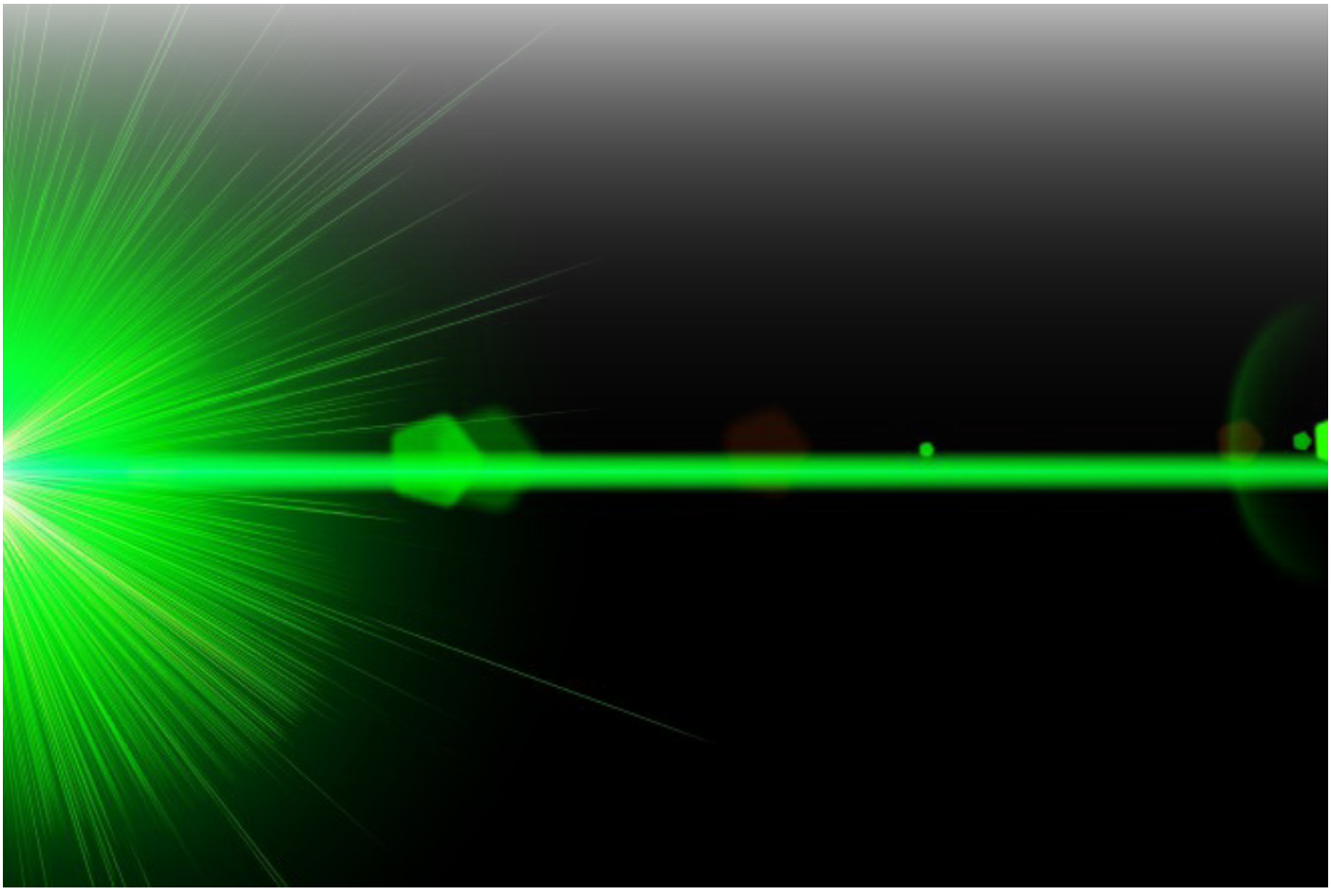
14:00-14:20 **Title: Physicochemical, spectral-luminescent and lasing properties of Yb-containing huntite-like glass**

Georgii Malashkevich, B.I. Stepanov Institute of Physics, Belarus

14:20-14:40 **Title: Modeling of fast discharges in high-pressure gases**

George V. Naidis, Joint Institute for High Temperatures RAS, Russia

14:40-15:00	**Title: Input of Raman, SERS And Fluorescence Spectroscopy to Nanomedicine Research** **Igor Chourpa,** University of Tours, France
15:00-15:20	**Title: Overcooled gas flow assisted quantum computing** **Konstantin Lyakhov,** Institute for Nuclear Science and Technology, South Korea
15:20-15:40	**Title: A single electrode plasma discharge tube device** **Shouguo Wang,** Qilu University of Technology, China
15:40-16:00	**Title: Pulsed MOVPE growth of high quality AlGaN epilayers for ultraviolet LED applications** **Ilkay Demir,** Cumhuriyet University, Turkey
	Coffee Break 16:00-16:20@ Foyer
16:20-16:40	**Title: Optimization of Entangled Photon Pair Sources** **Kadir Durak,** Ozyegin University, Turkey
16:40-17:00	**Title: A density functional method for quantum confinement in atomic systems** **Amlan K. Roy** Indian Institute of Science Education and Research, India
17:00-17:20	**Title: Evaluation of the residual stresses in wear protection coatings using X-Ray diffraction, ultrasonic and finite element technique** **Adel K.** Mahmoud, University of Diyala, Iraq
	Video Presentation 17:20-17:50
17:20-17:35	**Title: Fluorescent and T1 MRI active multilayer nanoparticle for imaging and targeting cellular delivery** **Oara Neumann,** Rice University, United States
17:35-17:50	**Title: Cosmic dark matter fractal field theory** **T Fulton Johns,** University of Tennessee Health Sciences, USA
17:50-17:55	**Discussion Time**
17:55-18:00	**Chairman's Summing Up**



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City Attractions



