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Tentative Program

2nd International Conference on

Physics

August 28-30, 2017 Brussels, Belgium

Theme: "Accentuating Novel Researches and frontline Advances of Physics"



For Available Speaker Slots

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Conference Secretariat

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Program at a Glance

Day 1

Morning Sessions

Reception/Registration	
	General Session
	Inaugural Address
Least of 3 Keynote/Plenary Talks	Keynote/Plenary Talk 1
	Keynote/Plenary Talk 2
	Keynote/Plenary Talk 3
Panel Discussions/Group Photo	
Coffee/Tea Break (Networking)	
	Physics
5 Speakers (20 Mins Each)	

Evening Sessions

Lunch Break
Astrophysics, Applied Physics
6 Speakers (20 Mins Each)
Coffee/Tea Break (Networking)
Particle And Nuclear Physics
5 Speakers (20 Mins Each)

19 Speakers for Day 1

Day 2

Evening & Morning Sessions

Session 1	Session 2
Optical Physics	
5 Speakers (20 Mins Each)	
Coffee/Tea Break (Networking)	
Neurophysics	**Geophysics**
5 Speakers (20 Mins Each)	
Lunch Break	
Psychophysics	**Biophysics**
5 Speakers (20 Mins Each)	
Coffee/Tea Break (Networking)	
Quantum Physics	
5 Speakers (20 Mins Each)	

20 Speakers on Day 2

Day 3

Evening Ses Morning Sessions

Session 1	Session 2
Electromagnetism	**Chemical Physics**
5 Speakers (20 Mins Each)	
Coffee/Tea Break (Networking)	
Nanotechnology	**Plasma Physics**
5 Speakers (20 Mins Each)	
Lunch Break	
Condensed Matter Physics	
5 Speakers (20 Mins Each)	
Poster Sessions	
5 Speakers (20 Mins Each)	
Awards & Closing Ceremony	

20 Speakers on Day 2

FEATURED SPEAKERS

Title: Multidimensional Solitons in Dispersive Complex Media. Structure and Stability
Vasily Yu. Belashov, Kazan Federal University, Russia

Title: Strongly-correlated electrons in two dimensions
Sergey Kravchenko, Northeastern University, USA

Title: Electromagnetic field, spin, and gravitation, as characteristics of a charged quantum particle wave function
Eliade Stefanescu, Centre of the Romanian Academy, Romania

Title: High Power/Energy Optics
Apollonov Victor Victorovich, Russian Academy of Sciences, Russia

Title: Discovery of a Mathematical Error in Albert Einstein's Paper 1904 Entitled "ON THE GENERAL MOLECULAR THEORY OF HEAT" and Calculating the New Order of Magnitude of the Radiation Wavelengths (black-body radiation)
M Khoshnevisan, Ajman University, UAE

Title: Evolution of Solitary Waves in Complex Media with Variable Dispersion
Vasily Yu. Belashov, Kazan Federal University, Russia

Title: Boscovich Unified Field Theory and Atomism
Roger J Anderton, Independent, UK

Title: Computation and metrizability within models of ZF minus the postulate of infinity
Eliza Wajch, Siedlce University of Natural Sciences and Humanities, Poland

Title: Classical Interpretation of Quantum Phenomena
Álvaro Q. Valenzuela, University of Chile, Chile

Title: Casimir forces in MEMS/NEMS: Influence of nanoscale surface roughness and material optical properties
G. Palasantzas, University of Groningen, Netherlands

Keynote Slots Available

FEATURED SPEAKERS

Title: Numerical study of interaction of vortex structures in plasmas and fluids
Vasily Yu. Belashov, Kazan Federal University, Russia

Title: Causal Physics – Photon Model by Non-Interaction of Waves", CRC/Taylor and Francis, 2014.
Chandrasekhar Roychoudhuri, University of Connecticut, USA

Title: Bose Condensation of Multi-Electron Bound States: Composite order in Kondo-Heisenberg models
Alexei M. Tsvelik, Brookhaven National Laboratory, USA

Title: Is the Hawking's scenarios of Black Holes evaporation the only possible?
Gaina Alexei, Inst. Applied Physics, Acad. Sci. Rep. of Moldova, Moldova

Title: Features of the formation of excimer molecules in dense gas mixtures by nuclear particles
A.I.Mis'kevich, National Research Nuclear University, Russia

Title: State-of-the-Art Laser Photoemission Study on High Temperature Superconductors
Xingjiang Zhou, Chinese Academy of Sciences, China

Title: T-invariance and mechanisms of the manyparticle multistep nuclear reactions and fission
Stanislav G. Kadmensky, Voronezh State University, Voronezh, Russia

Title: T-invariance and mechanisms of the manyparticle multistep nuclear reactions and fission
Pavel V. Kostryukov, Voronezh State University, Voronezh, Russia

Title: Generalized Heisenberg Uncertainty Principle In Noncommutative Quantum Geometrodynamics And General Relativity
S.S. Moskaliuk, Bogolyubov Institute For Theoretical Physics Of The Nat. Acad. Of Sci. Of Ukraine, Ukraine

Title: Effect of temperature on the cut off frequency of InN/AlGaN/AlN/GaN High electron mobility transistors
R. Yahyazadeh, Islamic Azad University of Khoy, Iran

Speaker Slots Available

FEATURED SPEAKERS

Title: Analysis of thermos-diffusive cellular instabilities in continuum combustion fronts
Hossein Azizi, McGill University, Canada

Title: Imaging the Underground Contaminants in Landfill Sites Using Electrical Impedance Tomography
A. S Ogungbe and C.O Ogabi, Lagos State University, Nigeria

Title: A hypothetical pre-fermion particle theory of everything
Michael Jefferson Lawrence, Maldwyn Centre for Theoretical Physics, UK

Title: Orthogonality and non-sensical mathematics
Lee Valstad, Sterogene Bioseperations, USA

Title: XRF measurements of heavy elements in some archaeological samples collected from different parts of Saudi Arabia
K. S. Al-Mugren, Princess Nourah Bent Abdul Rahman University, Saudi Arabia

Title: Growth and memory switching effect in the quaternary thallium chalcogenide Tl2GaInTe4 semiconductor compound
Jazi Abdullah Mohammed Abdulwahed, Umm Al-Qura University College, Saudi Arabia

Title: Unusual irreversibile Magnetic Behavior in three unrelated Subsentses
Israel Felner, Racah Institute of Physics, Israel

Title: On a Mirror Structure of Matter Fields
Rasulkhozha S. Sharafiddinov, Uzbekistan Academy of Sciences,Uzbekistan

Title: Casimir forces in MEMS/NEMS: Influence of nanoscale surface roughness and material optical properties
G. Palasantzas, University of Groningen, Netherlands

Title: Radial Heterostructured GaAs/AlGaAs Nanowires.
B. G. M. Tavares, University of Cape Verde, Cabo Verde

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Glimpses of Physics









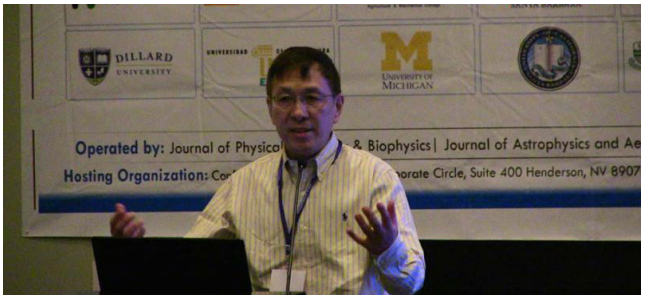




Glimpses of Physics





















TOURIST DESTINATIONS IN BRUSSELS



Atomium



Carnavalet Museum



Cathedral of St. Michael and St. Gudula



Cinquantenaire



Grand Place



Halle Gate



Mini-Europe



Royal Palace of Brussels

Major Scientific Sessions

- Physics
- Astrophysics
- Particle and Nuclear Physics
- Applied Physics
- Optical Physics
- Neurophysics
- Geophysics
- Psychophysics
- Biophysics
- Quantum Physics
- Electromagnetism
- Chemical Physics
- Nanotechnology
- Plasma Physics
- Condensed Matter Physics

Best Poster Award

- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement



- Apart from the judging time you may also be present at the poster to share your research with interested delegates



Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries
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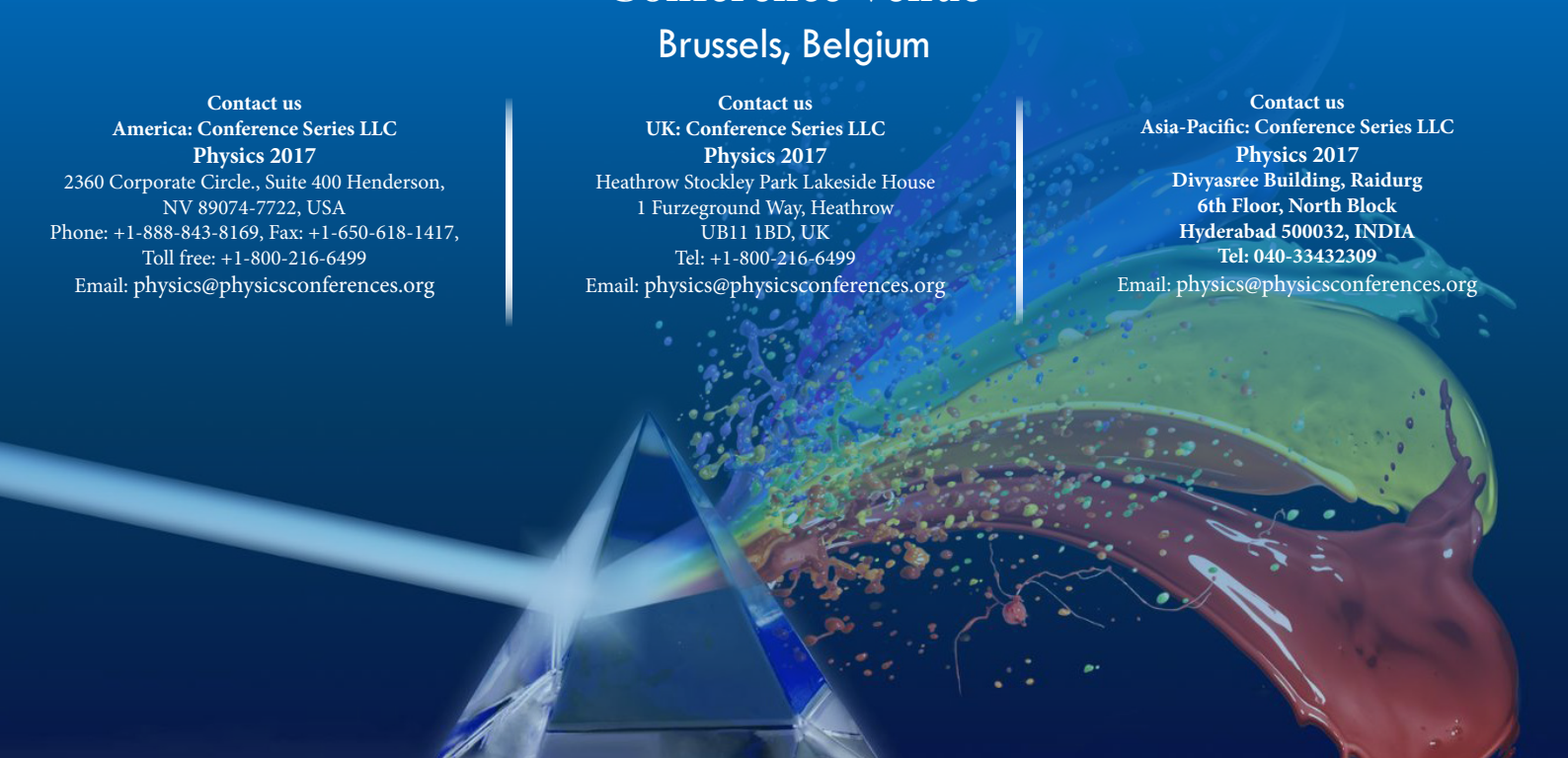
Conference Venue

Brussels, Belgium

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525th Conference

Scientific Program

International Conference on

PHYSICS

June 27-29, 2016 New Orleans, USA



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Day 1 June 27, 2016

Registrations

Salon 3

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Opening Ceremony

Keynote Forum

Introduction

Title: The invention of high efficient blue LEDs and future lighting
Shuji Nakamura, University of California Santa Barbara, USA

Title: Masses of black hole merger for the gravitational waves, GW150914
Yukio Tomozawa, University of Michigan, USA

Title: Spectrometric characterization techniques applied to artworks belonging to the historic and cultural heritage
Alejandro Martin Sanchez, University of Extremadura, Spain

Title: Scientific philosophy to unified physics
Chong Wei Xu, Verizon Communications, USA

Group Photo

Networking & Refreshment Break

Track 1: Physics
Track 2: Condensed Matter Physics

Session Chair: Shuji Nakamura, University of California Santa Barbara, USA
Session Co-Chair: Guang-Lin Zhao, Southern University and A&M College, USA

Session Introduction

Title: Revival of the phase-amplitude description of a quantum-mechanical wave function
George Rawitscher, University of Connecticut, USA

Title: The puzzle of anomalous isotope effect in High and Low Tc superconductors
Guang-Lin Zhao, Southern University and A&M College, USA

Title: Effect of triboluminescent and thermographic phosphor powders on the thermal, mechanical, and optical properties of elastomeric composite materials
Firouzeh Sabri, Universtiy of Memphis, USA

Title: Thick is Good
Li Ping Lu, University of Exeter, United Kingdom

Session Discussion

Lunch Break

Reception @ Dillard University

Day 2 June 28, 2016

Salon 3

Keynote Forum

Title: Single-molecule chemistry and spectroscopy on insulating films with STM
Yousoo Kim, RIKEN, Japan

Title: Spectral computational methods
George Rawitscher, University of Connecticut, USA

Networking & Refreshment Break

Title: Trends of nano science and nano technologies now and then
Abdalla M Darwish, Dillard University, USA

Title: Tomorrow's Science: Fractional calculus view of complexity
Bruce J West, US Army Research Office, USA

Special Session by Chong Wei Xu on "Horizons of Unified Physics"

- First Horizon of Unified Physics | Quantum Physics
- Second Horizon of Unified Physics | Macroscopic Densities and Thermodynamics
- Third Horizon of Unified Physics | Electromagnetism, General Relativity and Gravitation

Session Discussion

Lunch Break

Track 3: Advanced Physics
Track 4: Applied Physics
Track 5: Particle and Nuclear Physics

Session Chair: Rob L Allen, Sam Houston State University, USA
Session Co-Chair: Chong Wei Xu, Verizon Communications, USA

Session Introduction

Title: Basic equations calculate forces, many physical constants, and properties of particles that include masses
Rob L Allen, Sam Houston State University, USA
Title: 1D electron confinement in a graphene nano wrinkle
Yousoo Kim, RIKEN, Japan
Title: GOD doesn't play dice
Manish Kumar, Indian Institute of Technology(BHU), India
Title: Finite element analysis and optimization of cylindrical resonant photoacoustic cell
Madhusoodanan Mannoor, Dong-A University, Republic of Korea(South)

Session Discussion

Poster presentations

Networking & Refreshment Break

Track 6: Astrophysics
Track 7: Optical Physics

Session Chair: Yukio Tomozawa, University of Michigan, USA
Session Co-Chair: Abdalla M Darwish, Dillard University, USA

Session Introduction

Title: Double pulse laser deposition of polymer nanocomposite films for optical sensors and light emitting applications
Abdalla M Darwish, Dillard University, USA
Title: Acceleration, deceleration and finishing of universe expansion
Yukio Tomozawa, University of Michigan, USA
Title: Principles and applications of optical switching assisted imaging and structuring schemes
David Köhne, Laser-Laboratorium Göttingen e.V., Germany
Title: Ammonia sensor based on polymer-inorganic nano-composite thin film upconversion light emitter prepared by double-beam pulsed laser deposition
Aziz Muhammad & Deonte Alexander, Dillard University, USA

Session Discussion

Day 3 June 29, 2016

Salon 3

Track 8: Geophysics
Track 9: Quantum Physics
Track 10: Physics in Different Sciences
Track 11: Chemical Physics

Session Chair: Eugene Stephane Mananga, The City University of New York, USA
Session Co-Chair: Alejandro Martin Sanchez, University of Extremadura, Spain

Session Introduction

Title: Generalization of framework of analytic mechanics and unified description of quantum and classical physics
Tomoi Koide, Federal University of Rio de Janeiro, Brazil
Title: Some preliminary results obtained when indoor radon mitigation methods are applied
Alejandro Martin Sanchez, University of Extremadura, Spain
Title: Application of the pulsed fast/thermal neutron method for soil elemental analysis
Galina Yakubova, USDA/ARS National Soil Dynamics Laboratory, USA

Networking & Refreshment Break

Title: On Fer and Floquet-Magnus expansions: Application in solid-state nuclear magnetic resonance and physics
Eugene Stephane Mananga, The City University of New York, USA
Title: GOD's diagonistic tool is the mathematics and prescription is physics
Manish Kumar, Indian Institute of Technology(BHU), India
Title: Magnetic current and new modifications of Maxwell's equations
Mehdi Nosrati, University of Alberta, Canada

Session Discussion

Awards & Closing Ceremony

Lunch Break

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Scientific Program

International Conference on
Quantum Physics and Nuclear Engineering

March 14-16, 2016 London, UK



OMICS International Conferences

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Scientific Program

Day 1

Monday March 14, 2016

Registrations

Guggenheim

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Opening Ceremony

Keynote Forum

Introduction

Yukio Tomozawa
University of Michigan, USA

Manijeh Razeghi
Northwestern University, USA

Kazuhisa Kakurai
QuBS, JAEA & CEMS, RIKEN, Japan

Group Photo

Networking & Refreshments Break

Track 1: Quantum Science

Session Chair: Manijeh Razeghi, Northwestern University, USA
Session Co-chair: Ian O' Driscoll, Cork Institute of Technology and Tyndall National Institute, Ireland

Session Introduction

Evidence for a dark matter particle
Yukio Tomozawa, University of Michigan, USA
Silicon photonics: generation of entangled photon pairs
Labonté Laurent, University of Nice Sophia Antipolis, France
Gaussian quantum discord and the entangling power of a beamsplitter
Natalia Korolkova, University of St. Andrews, UK
StarDriver: A highly flexible laser driver for inertial confinement fusion
David Eimerl, EIMEX, USA

Networking & Lunch Break

Cavity-mediated collective heating in opaque sonoluminescing bubbles
Almut Beige, University of Leeds, UK
High performance InAs-based type-II superlattice infrared photo-detectors
Jianxin Chen, Chinese Academy of Sciences, China
Protocols for concentration of entanglement in multipartite quantum states
Binayak S Choudhury, Indian Institute of Engineering Science and Technology, India
NV centers in diamond - quantum coherence, noise and nanoscale MRI
Nir Bar-Gill, Hebrew University, Israel
Blue-green luminescence of Ce-doped ZnO thin films
Manuel García-Méndez, CICFIM de la FCFM-UANL, México

Networking & Refreshments Break

Track 1: Quantum Science
Track 2: In Depth Quantum Mechanics

Session Chair: Yukio Tomozawa, University of Michigan, USA
Session Co-chair: Waseem Bakr, Princeton University, USA

Photo-induced topological phase transitions in ultracold fermions
Norio Kawakami, Kyoto University, Japan

Ultrashort optical pulse generation in quantum dot lasers
Ian O' Driscoll, Cork Institute of Technology and Tyndall National Institute, Ireland
Logical stochastic resonance with a coulomb-coupled quantum dot rectifier
Fabian Hartmann, Universität Würzburg, Germany
Pair condensation in a spin-imbalanced two-dimensional Fermi gas
Waseem Bakr, Princeton University, United States

Panel Discussion

Day 2

Tuesday March 15, 2016

Guggenheim

Track 3: Quantum States
Track 4: Quantum Mechanics Interpretation
Track 5: Strings in Quantum Physics

Session Chair: Kazuhisa Kakurai, QuBS, JAEA & CEMS, RIKEN, Japan
Session Co-chair: Alexander Kubanek, Ulm University, Germany

Session Introduction

Importance and applications of infinite dimensional non-orthogonal quantum state
Osamu Hirota, Tamagawa University, Japan
Generation of non-classical states of light using photonic crystal fibres
N Y Joly, University of Erlangen-Nürnberg, Germany
Fundamental phenomena of quantum mechanics studied in matter-wave optics: Quantum Cheshire-cat and uncertainty relations
Yuji Hasegawa, TU-Wien Atominstitut der Österreichischen Universitäten, Austria

Networking & Refreshments Break

Neutron scattering investigations on quantum spin systems
Kazuhisa Kakurai, QuBS, JAEA & CEMS, RIKEN, Japan
Towards an optimal quantum SWAP gate
Colin Wilmott, Nottingham Trent University, UK
Nonlinear interferometer for shaping the spectrum of bright squeezed vacuum
Maria Chekhova, Max-Planck Institute for the Science of Light, Germany
A consistent account of brain function reinterprets the evidence on which quantum mechanics is based
Michael T Deans, Freelance Scientist, United Kingdom
Applications of induced coherence without induced emission
Gabriela Barreto Lemos, Institut für Quantenoptik und Quanten information, Austria

Networking & Lunch Break

Track 9: Nuclear Science
Track 10: Interaction and Maintenance

Session Introduction

Session Chair: Ekmel Ozbay, Bilkent University, Turkey
Session Co-chair: Colin Wilmott, Nottingham Trent University, UK

Quantum Optics with color center in diamond
Alexander Kubanek, Ulm University, Germany
Metamaterial based nanobiosensors and nanophotodetectors
Ekmel Ozbay, Bilkent University, Turkey
Alignment of atomic inner shell vacancies-A detailed study
Ajay Sharma, Chitkara University, India

Panel Discussion

Networking & Refreshments Break

Poster presentations

QP101 **High-power hybrid fiber amplifiers with pumping power recycling mechanism**
Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan

QP102 **Berry curvature in topologically non-trivial quantum systems**
Georgios Konstantinou, University of Cyprus, Cyprus

QP103 **Topological electric currents in nonadiabatic quantum systems**
Kyriakos Kyriakou, University of Cyprus, Cyprus

QP104 **Exploring the scaling of graphene for radiation detection**
Zachary Shollar, Purdue University, United States

Day 3

Wednesday March 16, 2016

Guggenheim

Track 6: Quantum Physics Formulation
Track 7: Quantum Field Theory
Track 8: Quantum Transport and Dissipation
Track 11: Latest Technologies, Innovations and Instruments

Keynote Forum

Shien-Kuei Liaw
National Taiwan University of Science and Technology, Taiwan

C Wei Xu
Virtumanity, USA

Networking & Refreshments Break

Session Introduction

Session Chair: Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan
Session Co-chair: Yuji Hasegawa, TU-Wien Atominstitut der Österreichischen Universitäten, Austria

Quantum and classical dynamics in hilbert spaces of states
Alexey Kryukov, University of Wisconsin Colleges, USA

Optical signatures of states bound to vacancy defects in monolayer transition metal dichalcogenides
Michael Leuenberger, University of Central Florida, USA

Plasmonic response of partially gated field effect transistors
G Rupper, Army Research Laboratory, USA

On coupled wave scattering of structures involving flexible boundaries
Rab Nawaz, COMSATS Institute of Information Technology Islamabad, Pakistan

Unified theory for all physics and beyond
C Wei Xu, Verizon Communications, USA

Panel Discussion

Networking & Lunch Break

Closing Ceremony

conferenceseries.com
835th Conference

Scientific Program

5th International Conference and Exhibition on

LASERS, OPTICS AND PHOTONICS

November 28-30, 2016 Atlanta, USA

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Day 1 November 28, 2016

Registrations

Chattahoochee-B

conferenceseries.com 08:30-08:50 **Opening Ceremony**

Keynote Forum

Introduction

Title: Wide band-gap semiconductor materials with low defect density for future high-power nanophotonics and electronics
Vladislav E Bougrov, ITMO University, Russia

Title: Dynamics of plasmonic nanolasing: From strong coupling to stopped-light lasing and surface-plasmon polariton condensation
Ortwin Hess, Imperial College London, UK

Title: Visible from invisible: Second harmonic generation with infrared laser diodes
G S Sokolovskii, Ioffe Institute, Russia

Title: Plasmonic materials/metamaterials by crystal growth
Dorota A Pawlak, Institute of Electronic Materials Technology, Poland

Panel Discussion

Group Photo

Networking & Refreshment Break

Workshop on Understanding Silicon for Optics
by
Douglas R McCarter, McCarter Machine & Technology Inc., USA

Session Introduction

Session I

Lunch Break

Session II

Networking & Refreshment Break

Session III

Panel Discussion

Young Researchers Forum

Session Introduction

Session Judges:
Masayoshi Tonouchi, Osaka University, Japan
Karim D Mynbaev, ITMO University, Russia

Title: Tandem modulation for W-band OCDMA radio-over-fiber system
Morad Eghbal, University of Texas, USA
Title: Spectroscopic analysis of calcite and dolomite marble using laser induced breakdown spectroscopy
S Saleem, COMSATS Institute of Information Technology, Pakistan
Title: Demonstration of local teleportation using classical entanglement
Marco Ornigotti, Friedrich-Schiller-Universität Jena, Germany
Title: Visualization and tracking of tumor exosomes using single molecule localization based super resolution microscope
Chen Chen, Southeast University, China
Title: Functionalized carbon nanotubes for monitoring dual-drug release in tumor cells using SERS and fluorescence techniques
Peng Chen, Southeast University, China
Title: Upconversion Brillouin optical-time domain reflectometry
Mingjia Shangguan, University of Science and Technology of China, China
Title: Temperature sensitivity enhancement of the gold thin film-coated long-period fiber grating
Li Jian, Harbin Engineering University, China

Panel Discussion

Chattahoochee-B

Keynote Forum

Title: Single-mode terahertz lasing in current injection graphene channel transistor
Taiichi Otsuji, RIEC - Tohoku University, Japan

Title: Optics and photonics research programs funded by the USA National Science Foundation
Dominique M Dagenais, National Science Foundation, USA

Panel Discussion

Workshop on SHNP - Semiconductor and Hybrid Nanophotonics

Session Introduction

Session Chair: Vladislav E. Bougrov, ITMO University, Russia

Session Co-Chair: Roberto Morandotti, ITMO University, Russia

Title: Integrated III-V semiconductor components for all-optical analog-to-digital conversion
Vladislav E Bougrov, ITMO University, Russia

Title: Flexible optoelectronic devices based on inorganic nanowires
Maria Tchernycheva, Université Paris Sud XI, France

Title: On-chip quantum frequency combs for scalable quantum state generation
Roberto Morandotti, ITMO University, Russia

Title: Recent progress in III-V and II-VI semiconductor nanostructures for mid-infrared optoelectronics
Karim D Mynbaev, ITMO University, Russia

Title: Monolithic integration of III-V nanowires with silicon
Vladimir G Dubrovskii, ITMO University, Russia

Panel Discussion

Networking & Refreshment Break

Sessions On
Optics and Lasers in Medicine | Laser Systems

Session Introduction

Session Chair: Mahmoud Fallahi, University of Arizona, USA

Session Co-Chair: Haiyan Fu, South-Central University for Nationalities, China

Title: Prevention of abdominal adhesions and healing skin after peritoniectomy using low level laser
Mara Duffles, Federal University of Minas Gerais, Brazil

Title: Comparison of the Alendronate and irradiation with a light-emitting diode (LED) on murine osteoclastogenesis
Won Bong Lim, Chosun University, South Korea

Title: "Turn-off" fluorescent data array sensor based on double quantum dots coupled with chemometrics for highly sensitive and selective detection of multicomponent pesticides
Haiyan Fu, South-Central University for Nationalities, China

Title: Super wide luminescence and super radiance of $Al_xGa_{1-x}N$ under optical and e-beam pumping
Peter A Bokhan, A V Rzhanov Institute of Semiconductor Physics, Russia

Title: High-power, high-brightness, tunable two color VECSELs
Mahmoud Fallahi, University of Arizona, USA

Lunch Break

Title: Recent advances in high power optically pumped semiconductor lasers
Yanbo Bai, Coherent Inc., USA

Title: Optical parametric generation in photonic crystal fibers
Sigang Yang, Tsinghua University, China

Title: Generation of high power pulses with high repetition rate with subnanosecond pulse front for pumping different lasers
Peter A Bokhan, A V Rzhanov Institute of Semiconductor Physics, Russia

Session Discussion

Sessions On
Applications and Trends in Optics | Quantum Science and Technology

Session Introduction

Session Chair: Luis Gustavo Marcassa, University of São Paulo, Brazil

Session Co-Chair: Zhe Wang, Tsinghua University, China

Title: Detection of diseases in citrus plants using fluorescence spectroscopy
Luis Gustavo Marcassa, University of São Paulo, Brazil
Title: Optical phased array propagation in atmospheric channels and coherent beam combining
Itay Naeh, Tel Aviv University, Israel
Title: Laser beam shaping by manipulating spatial coherence
Milo W Hyde IV, Air Force Institute of Technology, USA
Title: Laser terahertz emission microscope
Masayoshi Tonouchi, Osaka University, Japan

Networking & Refreshment Break

Title: LIBS in China and its quantification development laser-induced breakdown spectroscopy
Zhe Wang, Tsinghua University, China
Title: High efficient generation of IR beam by SRS of high pressure H_2, D_2 and CH_4
Jinbo Liu, Dalian Institute of Chemical Physics - CAS, China
Title: Multiple period states in superfluid Fermi gases in an optical lattice
Gentaro Watanabe, Zhejiang University, China
Title: Some communication protocols using entangled quantum states as channels
Binayak S Choudhury, Indian Institute of Engineering Science and Technology, India

Session Discussion

Day 3 November 30, 2016

Chattahoochee-B

Sessions On
Optoelectronics | Optical Communications and Networking

Session Introduction

Session Chair: Ishwara Bhat, Rensselaer Polytechnic Institute, USA

Session Co-Chair: Shiva Kumar, McMaster University, Canada

Title: On-glass/flexible GaN light-emitting diodes and blue light enhancement in CdS/ZnS quantum dots by surface plasmon resonance
Jun Hee Choi, Samsung Advanced Institute of Technology, South Korea
Title: Properties of hexagonal boron nitride grown on sapphire and silicon substrates for application in deep UV photonics
Ishwara Bhat, Rensselaer Polytechnic Institute, USA
Title: Digital alloy growth of AlInAsSb for low noise avalanche photodetectors
Seth Bank, University of Texas, USA
Title: The radio frequency photomultiplier tube and optical frequency comb: High resolution, high rate and highly stable timing technique for single photons
Amur Margaryan, Yerevan Physics Institute, Armenia
Title: Light assisted low temperature sintering for the high-performance flexible dye-sensitized and perovskite solar cells
Min Jae Ko, Korea Institute of Science and Technology, Republic of Korea
Title: Optical back propagation for mitigation of linear and nonlinear impairments in optical networks
Shiva Kumar, McMaster University, Canada
Title: Stabilizing Raman crosstalk in massive WDM transmission networks by frequency dependent gain and loss
Avner Peleg, Afeka College of Engineering, Israel

Session Discussion

Networking & Refreshment Break

Sessions On
Nanophotonics and Biophotonics | Optical Physics | Surface Enhanced Spectroscopy (SES)

Session Introduction

Session Chair: P Boolchand, University of Cincinnati, USA

Session Co-Chair: Shu-Wei Huang, University of California, USA

Title: Numerical simulation of Raman scattering in biological tissues
A Seteikin, Amur State University, Russia
Title: Surface enhanced optical processes and regularities of their spectra in symmetrical molecules
A M Polubotko, Ioffe Institute, Russia
Title: Crystal growth-based methods used for manufacturing volumetric novel photonic materials as plasmonic nanomaterials and metamaterials
Dorota A Pawlak, Institute of Electronic Materials Technology, Poland
Title: Flat and conformal optics with dielectric metasurfaces
Amir Arbabi, California Institute of Technology, USA
Title: A new paradigm: Metamaterial and upconversion effects in natural materials
Michelle R Stem, Complete Consulting Services, LLC, USA

Lunch Break

Title: Chip-scale optical frequency combs: Advances in precision metrology
Shu-Wei Huang, University of California, USA
Title: Experimental challenges in observation of topological phases in chalcogenide and modified oxide glasses and amorphous materials
P Boolchand, University of Cincinnati, USA
Title: Producing, characterizing and modeling nanostructured surfaces with complex visual
Renee Charriere, National Institute of Standards and Technology, USA
Title: Pulsed-laser Raman scattering for measurement of junction temperature of white-LED
Yukihiko Yamagata, Kyushu University, Japan
Title: Laser frequency locking with 46 GHz offset by using an electro-optic modulator for magneto-optical trapping of francium atoms
Ken-ichi Harada, Tohoku University, Japan
Title: Optical properties of 3C–SiC/Si (001) defect microstructures by exploiting Raman scattering and X-ray absorption fine structure measurements
Devki N Talwar, Indiana University of Pennsylvania, USA
Title: Mitigating transmitter non-linearity and fiber impairments in radio over fiber technology
Dhananjay Manohar Patel, Sardar Vallabhbhai National Institute of Technology, India

Session Discussion

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Poster Presentations 16:15-17:15

OP1	**Title: A new chipset for generating computer-generated hologram** **Young-Ho Seo,** Kwangwoon University, South Korea
OP2	**Title: Electron localizations in binary InAs/GaAs quantum systems and their optical detection** **I Filikhin,** North Carolina Central University, USA
OP3	**Title: Inexpensive method for wafer size laser scribing of arbitrary patterns** **Goran Rasic,** North Carolina Central University, USA

Video Ptresentation

Title: Incapability of laser drilling affected by interfacial transport processes across the induced keyhole
Peng-Sheng Wei, National Sun Yat-Sen University, Taiwan (ROC)

Awards and Closing Ceremony 17:15-17:20