Tentative Program

3rd International Conference on

Quantum Optics and Quantum Computing

September 10 - 11, 2018 London, UK



Interactive Sessions | Keynote Lectures | Plenary Lectures | Workshops

Exhibitors | B2B Meetings

For available speaker slots

quantumoptics@annualconferences.org

3rd International Conference on

Quantum Optics and Quantum Computing

September 10 - 11, 2018 London, UK

Program at a Glance

Day 1

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
		09.00-09.15	Inaugural Address
	Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
Evening Sessions	11.00-12.40	5 Speakers (20 Mins Each)	
	Lunch Break 12.40-13.30		
	13.30-15.30	6 Speakers (20 Mins Each)	
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25	5 Speakers (20 Mins Each)	

19 Speakers for Day 1

Day 2

	Time	Session 1	Session 2
Morning Sessions	09.00-10.40	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Coffee/Tea Break 10.40-10.55 (Networking)		
	10.55-12.35	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Lunch Break 12.35-13.25		
Evening Sessions	13.25-15.05	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Poster Sessions		
	Coffee/Tea Break 15.05-15.20 (Networking)		
	15.20-17.00	5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Closing Cermony		
	NOTE: Program Shedule is subject to change with final allotment of the speaker slots		

30 Speakers on Day 2



Conference Highlights

- Quantum Optics
- Quantum Mechanics
- Interpretation of Quantum Mechanics
- Quantum States
- Quantum Field Theory
- Quantum Thermodynamics
- Quantum Photonics
- Quantum Plasmonics
- Quantum Computing
- Quantum Information Science
- Quantum Cryptography
- Quantum Technology and Measurement
- Quantum Metrology and Sensing
- Quantum Error Corrections
- Quantum Nanoscience and Nano physics
- Quantum Transport and Dissipation



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1227th Conference

Scientific Program

2nd International Conference on

QUANTUM PHYSICS AND QUANTUM TECHNOLOGY

September 25-26, 2017 Berlin, Germany



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Day 1 September 25, 2017

Registrations

v. Kleist

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Opening Ceremony

Special Sessions

Introduction

Title: A new approach to quantum mechanics

Yakir Aharonov, Chapman University, USA

Keynote: The transition path time distribution - quantum mechanics, vanishing tunneling flight times and special relativity

Eli Pollak, Weizmann Institute of Science, Israel

Networking and Refreshments Break

Keynote: Quantum master equation for Fermions and a unitary relativistic quantum theory

Eliade Stefanescu, Center of Advanced Studies in Physics of the Romanian Academy, Romania

Keynote: The Shell-Nodal structure of the atoms

George P Shpenkov, USTB, Poland

Sessions: Quantum Science | Quantum States | Quantum Field Theory | Theory of Everything: String Theory | Flow of Time | Quantum Physics and the Universe

Session Chair: Ozhigov Yuri Igorevich, Moscow State University, Russia

Session Co-chair: Eli Pollak, Weizmann Institute of Science, Israel

Session Introduction

Title: Electromagnetically induced transparency in circuit quantum electrodynamics with nested polariton states

David Pappas, NIST, USA

Title: Correlated motion in atomic and molecular three-particle systems

Hazel Cox, University of Sussex, UK

Lunch Break

Title: On some unknown features of the Bose-Einstein statistics

Aleksey Ilyin, Moscow Institute of Physics and Technology, Russia

Title: Weak and strong non-linear effects in Josephson junction chains

Wiebke Guichard, Institut NEEL CNRS, France

Title: Finite dimensional models of QED

Ozhigov Yuri Igorevich, Moscow State University, Russia

Title: Quantum wave mixing and resolving photonic classical and non-classical coherent states

Vladimir Antonov, Royal Holloway University of London, UK

Networking and Refreshments Break

Title: Experimental probing of quantum criticality at the superconductor-insulator quantum phase transition

Aviad Frydman, Bar-Ilan University, Israel

Title: 3025 - Science in fiction

Tina Matzat, CEO and Founder of Qbit Films, Germany

Title: Proposed link between the periodic table and the standard model

John Roberts, University of Liverpool, UK

Title: Excited S states of two electron atoms

Adam Baskerville, University of Sussex, UK

Panel Discussion

Day 2 September 26, 2017

v. Kleist

Special Sessions

Introduction

Keynote: Quantum electronic transport and conductance anomaly in quasi-1D systems
Mukunda Das, Australian National University, Australia

Title: Universal quantum laws, health and well-being
Menas Kafatos, Chapman University, USA

Networking and Refreshments Break

Title: Revision of abstract quantum computer: Why do we need and how to build it?
Ozhigov Yuri Igorevich, Moscow State University, Russia

Sessions: Quantum Information and Quantum Computing | Quantum Optics | In Depth Quantum Mechanics | Quantum Mechanics Interpretations | Quantum Transport and Dissipation | Physical Mathematics | Quantum Technology

Session Chair: Eliade Stefanescu, Center of Advanced Studies in Physics of the Romanian Academy, Romania
Session Co-Chair: Hazel Cox, University of Sussex, UK

Session Introduction

Title: New principles of solving the problem of combining the gravitational and electromagnetic fields
V A Nastasenko, Kherson State Maritime Academy, Ukraine

Title: Quantum key distribution networks and their applications for blockchain-based technologies
Aleksey Fedorov, Russian Quantum Center, Russia

Lunch Break

Title: Vibrational state control of BECs using stochastic webs
Nathan Welch, University of Nottingham, UK

Title: On the motion of macroscopic bodies in quantum theory
Alexey Kryukov, University of Wisconsin Colleges, USA

Title: Unified quantum metric
Eugene A Machusky, NTU University, Ukraine

Title: Information entropy of quantum dynamics
Dmytro Progonov, NTU University, Ukraine

Title: X-ray quantum optics
Adriana Palffy, Max Planck Institute for Nuclear Physics, Germany

Networking and Refreshments Break

Title: Iterative generation of non-classical states of light
Rosa TUALLE-BROURI, Université Paris Sud, France

Title: Many particle interactions in the integer quantum Hall effect regime
Josef Oswald, Montanuniversität Leoben, Austria

Title: Coherent observers for linear quantum systems
Nina H Amini, Laboratoire des Signaux et Systèmes (L2S), France

Panel Discussion

Awards & Closing Ceremony

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835th Conference

Scientific Program

Proceedings of

5th International Conference and Exhibition on

Lasers, Optics & Photonics

November 28-30, 2016 | Atlanta, USA



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Registrations

Chattahoochee-B

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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, Institut national de la recherche scientifique (INRS-EMT), Canada

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, INRS-EMT, Canada

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: 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
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

Session Discussion

Networking & Refreshment Break

Poster Presentations

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

Scientific Program

International Conference on
Quantum Physics and Nuclear Engineering

March 14-16, 2016 London, UK



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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

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

Networking & Lunch Break

Title: Cavity-mediated collective heating in opaque sonoluminescing bubbles
Almut Beige, University of Leeds, UK
Title: High performance InAs-based type-II superlattice infrared photo-detectors
Jianxin Chen, Chinese Academy of Sciences, China
Title: Protocols for concentration of entanglement in multipartite quantum states
Binayak S Choudhury, Indian Institute of Engineering Science and Technology, India
Title: NV centers in diamond - quantum coherence, noise and nanoscale MRI
Nir Bar-Gill, Hebrew University, Israel
Title: 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

Title: Photo-induced topological phase transitions in ultracold fermions
Norio Kawakami, Kyoto University, Japan
Title: Ultrashort optical pulse generation in quantum dot lasers
Ian O' Driscoll, Cork Institute of Technology and Tyndall National Institute, Ireland
Title: Logical stochastic resonance with a coulomb-coupled quantum dot rectifier
Fabian Hartmann, Universität Würzburg, Germany
Title: 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

Title: Importance and applications of infinite dimensional non-orthogonal quantum state
Osamu Hirota, Tamagawa University, Japan
Title: Generation of non-classical states of light using photonic crystal fibres
N Y Joly, University of Erlangen-Nürnberg, Germany
Title: 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

Title: Neutron scattering investigations on quantum spin systems
Kazuhisa Kakurai, QuBS, JAEA & CEMS, RIKEN, Japan
Title: Towards an optimal quantum SWAP gate
Colin Wilmott, Nottingham Trent University, UK
Title: Nonlinear interferometer for shaping the spectrum of bright squeezed vacuum
Maria Chekhova, Max-Planck Institute for the Science of Light, Germany
Title: A consistent account of brain function reinterprets the evidence on which quantum mechanics is based
Michael T Deans, Freelance Scientist, United Kingdom
Title: 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

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

Panel Discussion

Networking & Refreshments Break

Poster presentations

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

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

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

QP104 **Title: 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

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

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

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

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

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

Panel Discussion

Networking & Lunch Break

Closing Ceremony

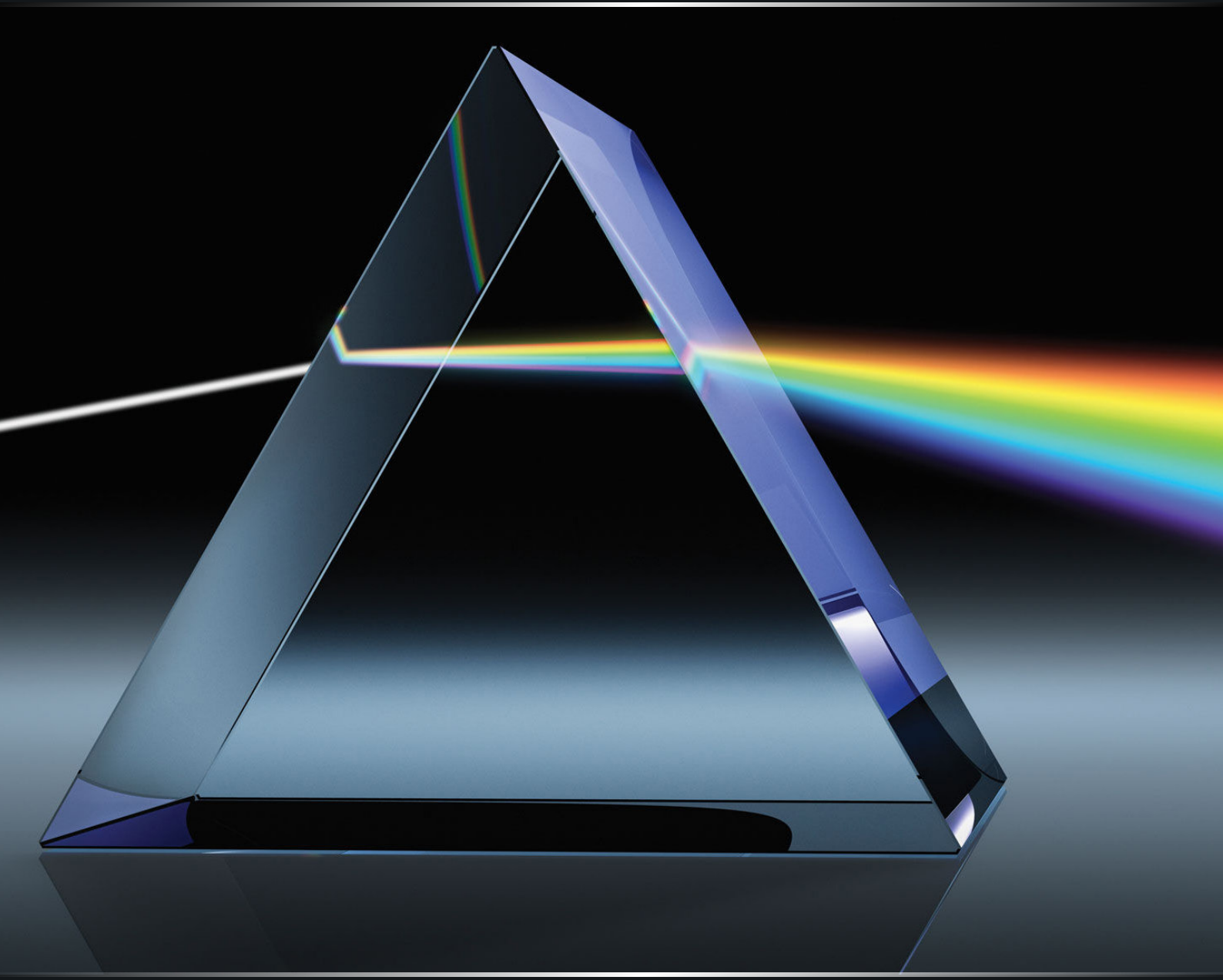
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Scientific Program

3rd International Conference and Exhibition on

Lasers, Optics and Photonics

September 01-03, 2015 Valencia, Spain



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Day 1 **September 01, 2015**

Registrations

Valentia B

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Opening Ceremony

Keynote Forum

Introduction

Manijeh Razeghi, Northwestern University, USA

Anthony Krier, Lancaster University, UK

Michael A Fiddy, University of North Carolina (Charlotte), USA

John Michael Dallesasse, University of Illinois, USA

Coffee Break

Track 1: Advanced Science and Technology for Laser Systems

Session Chair: Anthony Krier, Lancaster University, UK
Session Co-Chair: Joachim Wagner, Fraunhofer Institute for Applied Solid State Physics (IAF), Germany

Session Introduction

Title: Optical feedback interferometry in quantum cascade lasers
Gaetano Scamarcio, Università degli Studi di Bari "Aldo Moro", Italy
Title: Influence of the InAs/GaSb super lattice period composition on the electro-optical performances of T2SL infrared photodiode
Philippe Christol, University of Montpellier, France
Title: Recent advances in widely tunable quantum cascade lasers and their use in spectroscopic sensing
Joachim Wagner, Fraunhofer Institute for Applied Solid State Physics (IAF), Germany
Title: Coherency for a better detection
Besnard Pascal, University of Rennes 1, France
Title: Linear-cavity fiber lasers investigation and application
Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan
Title: 16 µm InP-related quantum cascade laser
Anna Szerling, Institute of Electron Technology, Poland

Group Photo & Lunch Break

Title: Photonic engineering and micro-cavity tuning of THz quantum cascade laser resonators
Miriam S Vitiello, NEST, CNR -Istituto Nanoscienze and Scuola Normale Superiore, Italy
Title: In-situ study on optical properties and continuous laser tuning in cholesteric liquid crystal laser array
Mi-Yun Jeong, Gyeongsang National University, Korea
Title: Type-II quantum wells for InP-based surface and edge emitting lasers
Stephan Sprengel, Technische Universitaet Muenchen, Germany

Track 5: Advancements in Photonics

Session Chair: Dan Botez, University of Wisconsin, USA
Session Co-Chair: Weidong Chen, Université du Littoral Côte d'Opale, France

Session Introduction

Title: $BaTiO_3$ Photonic crystal electro-optic devices for 50 GHz applications
Bruce Wessels, Northwestern University, USA
Title: High-index-contrast photonic-crystal quantum cascade lasers: Watt-range coherent mid-infrared power sources
Dan Botez, University of Wisconsin, USA
Title: Advanced photonic technologies for atmospheric measurements
Weidong Chen, Université du Littoral Côte d'Opale, France

Coffee Break

Title: Frequency doubling in AlGaAs microdisks at 1.55 µm
Giuseppe Leo, University Paris Diderot, France
Title: Can OLED light-quality be good enough to justify lighting renaissance?
Jwo-Huei Jou, National Tsing Hua University, Taiwan
Keynote Talk
Nasser Peyghambarian, University of Arizona, USA
Title: Photon management assisted by surface waves on an all-dielectric platform
Angelo Angelini, Polytechnic of Turin, Italy

Panel Discussion

Day 2 September 02, 2015

Valentia B

Track 3: Optoelectronics

Session Chair: Michael A Fiddy, University of North Carolina (Charlotte), USA
Session Co-Chair: Nicholas Kioussis, California State University Northridge, USA

Session Introduction

Title: Low index optical materials
Michael A Fiddy, University of North Carolina (Charlotte), USA
Title: Identification of point defect candidates in strained-layer type-II super lattices for infrared detectors: *Ab initio* electronic structure studies
Nicholas Kioussis, California State University Northridge, USA
Title: InP-based antimony-free lasers and photodetectors in 2-3 µm band
Zhang Yong-Gang, Chinese Academy of Sciences, China
Title: Telluride glass fibers for mid-infrared sensing: From medical diagnosis to the detection of exo-planet
Bruno Bureau, Université de Rennes 1, France

Title: Optical design and analysis of inorganic and organic nano/microscale structures for light harvesting and sensing applications
Jae Su Yu, Kyung Hee University, Republic of Korea

Coffee Break

Title: Unconventional thiophene materials for optoelectronics
Ewa Schab-Balcerzak, University of Silesia, Poland
Title: ZnO-based plasmonics
Sergey Sadofev, Humboldt-Universität zu Berlin, Germany
Title: Optical fibre chemical sensors: Bio-medical application
Sergiy Korposh, The University of Nottingham, UK

Track 4: Optical Communications and Networking
Track 7: Quantum Science and Technology
Track 9: Applications and Trends in Optics and Photonics

Session Chair: Dan Sporea, National Institute for Laser, Plasma and Radiation Physics, Romania

Session Introduction

Title: Ionizing radiation dosimetry with optical fibers
Dan Sporea, National Institute for Laser, Plasma and Radiation Physics, Romania
Title: Photonics technologies for 100 Gbps wireless communications
Juan Sebastián Rodriguez Páez, Technical University of Denmark, Denmark
Title: Polybinary modulation for bandwidth limited optical links
J J Vegas Olmos, Technical University of Denmark, Denmark

Lunch Break

Title: Málaga statistical distribution: The new universal analytical propagation model for atmospheric optical communications
Antonio Jurado-Navas, University of Malaga, Spain
Title: A transmission of Ethernet signals via VLC link based on using LEDS in a double role
Marcin Kowalczyk, Warsaw University of Technology, Poland
Title: Nonlinear pulse dynamics in passive and active optical fibers
Mousumi Basu, Indian Institute of Engineering Science & Technology, India
Title: QEPAS- New developments in quartz enhanced photoacoustic gas sensing
Vincenzo Spagnolo, Università e Politecnico di Bari, Italy

Coffee Break

Title: Single Mode Interband Cascade Lasers
Sven Höfling, Universität Würzburg, Germany
Title: Observation the exciton and Urbach band tail in low-temperature-grown GaAs using coherent ultrafast spectroscopy
Kimberley C Hall, Dalhousie University, Canada

Title: Optical applications of single crystals and transparent ceramics fabricated by high pressure process
Mythili Prakasam, Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB), France
Title: Generation of triangular optical pulses through a normally dispersive highly nonlinear fiber
Debasruti Chowdhury, Indian Institute of Engineering Science & Technology, India
Title: Shipbuilding application of laser equipment and technologies
Nikolay A Nosyrev, JSC Shipbuilding and Shiprepair Technology Center, Russia

Poster Session	
OP-001	**Title: Testing of ZnSe, CaF_2, BaF_2, and sapphire windows under alpha particles irradiation**
	Dan Sporea, National Institute for Laser, Plasma and Radiation Physics, Romania
OP-002	**Title: Semiconductor-integrated-Fiber-Bragg-Gratings for multi-parameter network sensing**
	Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan
OP-003	**Title: Integration of metal nano-particles in organic waveguides**
	Mattia Signoretto, University of Valencia, Spain
OP-004	**Title: 10 GHz orthogonally polarized dual frequency VECSEL at 1550 nm**
	Lea Chaccour, IFSTTAR, France
OP-005	**Title: Photonic-assisted systems for the generation, modulation and measurement of microwave signals**
	Danqi Feng, Huazhong University of Science and Technology, China
OP-006	**Title: Simultaneous experimental observation of the quantization and interference of a nano-confined plasmonic near-field**
	Aziz N Mina, Beni-Suef University, Egypt

Panel Discussion

Day 3 September 03, 2015

Valentia B

Track 2: Optics and Lasers in Medicine

Track 6: Nanophotonics and Biophotonics

Track 8: Featured Technologies in Lasers, Optics and Photonics

Session Chair: Ching-Fuh Lin, National Taiwan University, Taiwan
Session Co-Chair: Edik U Rafailov, Aston University, UK

Session Introduction

Title: Organic bio-electronic sensors for ultra-sensitive chiral differential detection
Luisa Torsi, Università degli Studi di Bari "Aldo Moro", Italy
Title: Environmentally affordable fluorescent nanotechnology for efficient lighting
Ching-Fuh Lin, National Taiwan University, Taiwan
Title: Sub-wavelength optical propagation in passive and active 1D-nanostructures
Nolwenn Huby, University of Rennes 1, France

Title: Growth of semiconductor nanoparticles in polymer matrices by nanosecond laser
Damian C Onwudiwe, North-West University (Mafikeng Campus), South Africa
Title: Novel compact laser sources for biomedical photonics: Diagnostics and treatment
Edik U Rafailov, Aston University, UK

Coffee Break

Title: Advanced fiber grating devices fabricated for all-optical signal processing
Xuewen Shu, Huazhong University of Science and Technology, China
Title: Optics on nano-structured surfaces
Valerio Pruneri, The Institute of Photonic Sciences, Spain
Title: Transport at spin-orbit and exchange-split interfaces: Giant universal asymmetry
Drouhin Henri-Jean, University Paris Saclay, France
Title: Ultra high resolution spectroscopy and ultra-fast THz measurements using coherent synchrotron radiation
Pascale Roy, Synchrotron SOLEIL, France
Title: Dye-sensitized solar cells using ethynyl-linked porphyrin trimers for NIR photoelectric conversion
Tomofumi Hamamura, University of Bordeaux, France
Title: Polarization-tuned dynamic color filters exploiting a dielectric-loaded one dimensional aluminum grating
Vivek Raj Shrestha, Kwangwoon University, South Korea
Title: Fabrication of homogenous microstructures by femtosecond laser micromachining
K M Tanvir Ahmmed, McGill University, Canada

Lunch Break

Panel Discussion

Best Poster Award

Closing Ceremony

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