Tentative Program

6th International Conference on Photonics

Theme: New Research Horizons: Photonics in a Changing World

Milan, Italy  July 31- August 01, 2017

Interactive Sessions  Keynote Lectures  Plenary Lectures  Workshops
Exhibitors  B2B Meetings

***For available speaker slots***

photonics@conferenceseries.net

http://photonics.conferenceseries.com/
# Program at a Glance

## Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Reception/Registration</th>
<th>Morning Sessions</th>
<th>Evening Sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00-08.30</td>
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<tr>
<td>08.30-08.45</td>
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<td>Time</td>
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<tr>
<td>08.45-09.15</td>
<td></td>
<td>Least of 3 Keynote/Plenary Talks</td>
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<td>09.15-09.45</td>
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<td>09.45-10.15</td>
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### Inaugural Address

**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots

**photonics@conferenceseries.net | photonics@physicsconferences.org**

For more Details PS: http://photonics.conferenceseries.com/

### Program at a Glance (Day 2)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00-10.40</td>
<td>Optical Switching Technology &amp; Devices</td>
<td>Laser</td>
<td></td>
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<tr>
<td>10.40-10.55</td>
<td>Coffee/Tea Break (Networking)</td>
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<tr>
<td>10.55-12.35</td>
<td>Optical Communications and Networking</td>
<td>Optical Sensor Technologies and Types</td>
<td></td>
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<tr>
<td>13.25-15.05</td>
<td>Photonic Devices and Applications</td>
<td>Latest Technologies in Photonics, Optics and Lasers</td>
<td></td>
</tr>
<tr>
<td>15.20-17.00</td>
<td>Poster Sessions</td>
<td>5 Speakers (20 Mins Each)</td>
<td></td>
</tr>
</tbody>
</table>

**Awards & Closing Ceremony Lunch**

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**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots

For more Details PS: http://photonics.conferenceseries.com/
Keynote Sessions

Title: High-internal-efficiency quantum cascade lasers: The road to mid-infrared lasers of 40% CW wall-plug efficiency
   Dan Botez, University of Wisconsin-Madison, USA

Title: Quantum neural network for combinatorial optimization and Boltzmann sampling
   Yoshihisa Yamamoto, Japan Science and Technology Agency, Japan

Title: Twisted and turned layers – no problem for ITE (Immersion Transmission Ellipsometry)
   Carl C Jung, CCJ Software, Germany

Title: Integrated narrow band pass filters array for miniature spectrometer
   Shao-Wei Wang, Chinese Academy of Sciences, China

Title: III-V Nanowire Arrays as a Platform for Photovoltaics, Solid State Lighting and Electronics
   Bernd Witzigmann, Kassel University and CINSaT, Germany

Title: WDM bidirectional Optical Wireless Communications
   Shien-Kuei Liaw, National Taiwan University of Science and Technology (NTUST), Taiwan

Title: Compact wavelengths splitters and TE/TM polarization splitters in LiNbO3 photonic wires
   Ming Chen, Xi'an University of Posts & Telecommunications, China

Featured Speakers

Title: Label free bio detection using nanohole array structure
   Jae Eun Jang, Daegu Gyeongbuk institute of science and technology, Korea

Title: Optics of photonic liquid crystals at frequencies of localized modes
   V. A. Belyakov, Landau Institute for Theoretical Physics, Russia

Title: Petabyte Optical Disc and data storage challenge,
   Eugen Pavel, Storex Technologies, Romania

Title: A possible approach to quantum computation by using classical optical fields modulated with pseudorandom phase sequence
   Jian Fu, Zhejiang University, China

Title: Mitigating transmitter non-linearity and fiber impairments in Radio over Fiber technology
   Dhananjay Manohar Patel, Sardar Vallabhbhai National Institute of Technology, India

Title: Nondestructive readout of Bessel holograms in external magnetic field
   Rafael Drampyan, Institute for Physical Research, Armenia

Title: Towards spin-photon interface for NV color center in diamond
   Alexey Akimov, Texas A&M University, USA

Title: Instantaneous frequency measurement of microwave signals using a "frequency-amplitude" conversion in the fiber Bragg grating and the method of additive frequency offset,
   Oleg G Morozov, KNRTU-KAI, Russia

Title: Demonstration of on-chip Forward stimulated Brillouin Scattering
   Junqiang Sun, Huazhong University of Science and Technology, China

Title: View angle matching spectra for motion detection from photonic quantum ring lasers of 3D whispering mode like the resonance in Batistery near the Duomo di Pisa
   O'Dae Kwon, Pohang University of Science and Technology, Korea

Title: Photonic generation and processing of wideband radio frequency signals in radar system
   Fangzheng Zhang, Nanjing University of Aeronautics and Astronautics, China
Title: Frequency conversion of slab Q-switched CO laser with RF discharge pumping in ZnGeP2 crystal
Andrey Kozlov, P.N. Lebedev Physical Institute of the Russian Academy of Sciences, Russia

Title: Recent development in vortex and LG 01-mode Ti:Sapphire laser
Jianlang Li, SIOM, CAS, China

Title: Forward-backward asymmetry of photoemission in C60 excited by few-cycle laser pulses
Phuong Mai Dinh, University Paul Sabatier, France

Title: Photonic microwave mixing using semiconductor lasers at period-one nonlinear dynamics
Sheng-Kwang Hwang, National Cheng Kung University, Taiwan
Title: Infrared laser system through mixing molecular gas lasers  
Andrei Kotkov, Lebedev Physical Institute of the Russian Academy of Sciences, Russia

Title: Compensation for the orbital angular momentum of a vortex beam in turbulent atmosphere by adaptive optics  
Xiuxiang Chu, Zhejiang Agriculture and Forestry University, China

Title: Cylindrical vector beams and optical vortex generation in fiber based on acoustically-induced grating  
Wending Zhang, Northwestern Polytechnical University, China

Title: Injection-Seeded ring cavity resonant ppmln optical parametric oscillator with 3.3μm output  
Xiaolei Zhu, Shanghai Institute of optics and Fine Mechanics, Chinese Academy of Sciences, China

Title: Development of 100W-class Solar-pumped Laser system  
Tomomasa Ohkubo, Tokyo University of Technology, Japan

Title: Compact chemical oxygen iodine laser sources: Future perspective  
Mainuddin, Jamia Millia Islamia University, India

Title: High-speed video analysis of plasma behavior and estimation of laser absorption in internal processing of glass by femtosecond laser  
Etsuji Ohmura, Osaka University, Japan

Title: Petawatt femtosecond laser pulse interaction with target  
Sargis Ter-Avetisyan, Institute of Basic Science (IBS), South Korea

Title: Development of a high-speed two-photon laser scanning microscope with an acquisition rate up to 180 frames per second  
Ho Lee, Kyungpook National University, South Korea

Title: Synthesis and applications of luminescent nanomaterials  
S.P. Khatkar, Maharshi Dayanand University, India

Title: Coupling equations method in twist oriented nematic liquid crystal  
L. S. Aslanyan, Yerevan State University, Armenia

Title: A novel PAPR reduction technique based on frequency modulation of ofdm signal to form a constant envelope for visible light communication system using leds in indoor applications  
Vinay Kumar Singh, Sardar Vallabhbaai National Institute of Technology, India

Title: Design of 1x8 wavelength mmi demultiplexer based on slot silicon-gallium nitride waveguide structures  
Dror Malka, Holon Institute of Technology (HIT), Israel

Title: Influence one the luminescent properties laser dyes of the degree of overlap of the absorption spectra of Nps Ag and fluorescence spectra  
Aitbek Aimukhanov, E.A. Buketov Karaganda State University, Kazakhstan

Speaker Slots are Available
Find More Speaker Presentations from USA, Europe, Middle East and Asia pacific
http://photonics.conferenceseries.com/
Conference Highlights

- Photonics
- Photonics for Energy
- Optoelectronics Materials and Devices
- Microwave Photonics
- Photonic Devices and Applications
- Nanophotonics
- Optical Sensor Technologies and Types
- Optical Communications and Networking
- Optical Switching Technology & Devices
- Biophotonics
- Laser
- Optical Systems
- Latest Technologies in Photonics, Optics and Lasers

For detailed sessions, please visit: http://photonics.conferenceseries.com/
Submit your abstract online at: http://photonics.conferenceseries.com/call-for-abstracts.php
Register online: http://photonics.conferenceseries.com/registration.php
Milan is the chief town of the Province of Milan and of the Lombardy Region. It is the second larger population in Italy, after Rome. Milan is also the centre of the largest metropolitan area in Italy, and one of the largest in Europe. Milan is considered as the economic and financial capital of Italy; the stock exchange is located here, as well as the most important multinational corporations. It is the most global city in the country and one of the richest areas in Europe.

Milan is a leading global city, with strengths in the arts, commerce, design, education, entertainment, fashion, finance, healthcare, media, services, research, and tourism. Its business district hosts Italy’s Stock Exchange and the headquarters of the largest national and international banks and companies. The city is a major world fashion and design capital, well known for several international events and fairs, including Milan Fashion Week and the Milan Furniture Fair. The city hosts numerous cultural institutions, academies and universities, with 11% of the national total enrolled students.

**Climate Condition:**

In the north of the country - the area between the Alps and the Tuscan-Emilian Apennines - the climate is harsh, with very cold winters and very hot, particularly humid summers. In central Italy the climate is milder, with a smaller difference in temperature between summer and winter and a shorter and less intense cold season than in the north; summers are longer, but the sultriness of the northern cities is mitigated by the sea. In southern Italy and the islands winters are never particularly harsh, and spring and autumn temperatures are similar to those reached in the summer in other areas of Italy.

**Contact Details**

Photonics 2017
Conference Series Ltd
57 Ullswater Avenue, West End
Southampton, Hampshire
United Kingdom, SO18 3QS, Ph: +1-800-216-6499
e-mail: photonics@conferenceseries.net
City Attractions

- Milan Cathedral
- Royal Palace of Milan
- Brera
- Parco Sempione
- Galleria Vittorio Emanuele II
- Teatro alla Scala
- Pinacoteca di Brera
- Navigli
4th International Conference on
PHOTONICS &
LASER TECHNOLOGY
July 28–29, 2016    Berlin, Germany
Registrations

Hall-Embassy I+II

Opening Ceremony

Keynote Forum

Title: Multi-mode optical quantum memory for quantum processing and communication
Artur V. Gleim, ITMO University, Russia
Title: TBA
Carl Christoph Jung, CCJ Software, Germany

Session: Photonics

Session Chair: Bruno Bêche, Université de Rennes, France
Session Co-Chair: Michael Giersig, Helmholtz-Zentrum Berlin für Materialien und Energie, Germany

Introduction

Title: A generalized method for calculating phase matching conditions in biaxial crystals
Guangwen Huo, Xijing University, China
Title: Electromagnetic waves interaction with various metallic nanomaterials
Michael Giersig, Helmholtz-Zentrum Berlin, Germany
Title: Ultrahigh charging of small spherical grains by the beam-plasma method for creating a compact neutron source
Vladimir B Karalnik, Troitsk Institute for Innovation and Fusion Research (SRC RF TRINITI), Russia
Title: The ABCD matrix for parabolic reflectors and its application to astigmatism free four-mirror cavities
Kevin Dupraz, Centre national de la recherche scientifique, France
Title: Soft matter for integrated photonics and resonances: Various hybrid approaches and adaptive technologies
Bruno Bêche, Université de Rennes, France
Title: Quantization of electromagnetic field in an inhomogeneous medium based on scattering matrix formalism (S-quantization)
Mikhail Kaliteevski, ITMO University, Russia

Session : Types of Lasers | Lasers in Industry

Session Chair: Stephan Bruening, Schepers GmbH & Co. KG, Germany
Session Co-Chair: Belkacem Meziane, Université d'Artois, France

Title: All-polymer planar optical sensing devices integrated in thin foils
Bernhard Roth, Leibniz University Hannover, Germany
Title: Embossing dies for surface functionalization by laser micro structuring
Stephan Bruening, Schepers GmbH & Co. KG, Germany

Networking & Refreshment Break @ Main Lobby
Title: Investigation on soliton related effects in mid-infrared quantum-cascade lasers
Jing Bai, University of Minnesota Duluth, USA

Title: Advances in mid-infrared mode-locked fiber lasers
Maria Chernysheva, Aston University, UK

Title: Single and dual wavelength Er:Yb double clad fiber lasers
Baldemar Ibarra-Escamilla, Instituto Nacional de Astrofísica, Mexico

Title: Noise-like pulse dynamics in passively mode-locked fiber lasers
O Pottiez, Centro de Investigaciones en Óptica, Mexico

Title: Predicting the unpredictable with an isomorphic single-control parameter structure of the Laser-Lorenz equations
Belkacem Meziane, Université d’Artois, France

Title: Optimization of a DPAL system by adjusting cell structural parameters and cell temperatures
Guofei An, Southwest Institute of Technical Physics, China

Networking & Refreshment Break @ Main Lobby

Workshop 16:10-18:25
Session Chair: Sergei A Kozlov, ITMO University, Russia
Session Co-Chair: Sergey A Moiseev, Kazan National Research Technical University, Russia

WS01 Title: Strong quadrupole light-molecule interaction and surface-enhanced optical processes
Aleksey Mickhailovich Polubotko, Saint Petersburg State University, Russia

WS02 Title: Polarization-independent subcarrier quantum communication system and its application in ITMO University quantum network
Sergei A Kozlov, ITMO University, Russia

WS03 Title: Electrodynamical Forbiddance of the Strong Quadrupole Light-Molecule Interaction and Its Manifestation in Fullerene C_{60}
Aleksey Mickhailovich Polubotko, Saint Petersburg State University, Russia

WS04 Title: Polarization-independent subcarrier quantum communication system and its application in ITMO University quantum network
Artur V. Gleim, ITMO University, Russia

WS05 Title: Maintaining security against photon-number-splitting attacks in subcarrier wave quantum communication systems
Vladimir Egorov, Saint Petersburg State University, Russia

WS06 Title: Method for determining of the optical constants for films and materials inside the absorption bands region
E N Kotlikov, Saint Petersburg State University of Aerospace Instrumentation, Russia

WS07 Title: Proof of standard security analysis compatibility with a sub-carrier wave quantum communication method
Andrei Gaidash, ITMO University, Russia

WS08 Title: Linear optical quantum circuits construction algorithm based on directed graphs or transform matrices
Kozubov Anton, ITMO University, Russia

WS09 Title: Investigation of process of quartz glass crystallization by confocal Raman spectroscopy
Dmitrii Pankin, St. Petersburg State University, Russia

Closing Ceremony

July 29, 2016 Day 2
Hall-Embassy I+II

Sessions: Optoelectronic Materials and Devices | Optical system | Optical networking | Nanophotonics
Session Chair: Abdullah J Zakariya, Ministry of Interior Kuwait, Kuwait
Session Co-chair: E U Rafailov, Aston University, UK

Title: The quantum dot spectrometer-Exploiting the limitless number of colors of QDs
Jie Bao, Tsinghua University, China
Title: Monolithically integrated tunable QW laser
Abdullah J Zakariya, Ministry of Interior Kuwait, Kuwait

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

Title: Exact analytical aberration theory of centered optical systems containing conic surfaces
Boian Andonov Hristov, Bulgarian Academy of Sciences, Bulgaria

Title: Quantum algorithms for factorization problem
Xinhua Peng, University of Science and Technology of China, China

Title: Fourier transforms of geometric forms and interference patterns, deflection of light by the sun
DO Tan Si, HoChiMinh-city Physical Association, Vietnam

Networking & Refreshment Break @ Main Lobby

Title: Brillouin microscopy for sub-cellular 3D mechanical imaging
Giuseppe Antonacci, Centre for Life Nano Science, Italy

Title: Router and routing designs for 3D torus optical network on chip
Weigang Hou, Northeastern University, China

Title: New generation of a single-chip LEDs with superior colour rendering emission
E U Rafailov, Aston University, UK

Title: Photonic microwave arbitrary waveform generation with adjustable chirp parameter based on remote sensing applications
Sanjeev Kumar Raghuvanshi, Indian School of Mines, India

Sessions: Optical Sensor Technologies and Types | Medical Laser Technology | Optometry Practice
Session Chair: German F de la Fuente, ICMA CSIC-University of Zaragoza, Spain
Session Co-Chair: Daniel Valverde, University of Guayaquil, Ecuador

Title: Importance of early diagnosis Retina
Daniel Valverde, University of Guayaquil, Ecuador

Title: The laser furnace: Enabling continuous processing of ceramics and glass under extreme conditions
German F de la Fuente, ICMA CSIC-University of Zaragoza, Spain

Lunch Break @ Element I+II Restaurant

Title: Scleral contact lens for KC management
Nezar R Damati, Eyezone Institute of Opticianry and Private Training, Kuwait

Title: Aerosol profiling by Raman Lidar in Nanjing, China
Nianwen Cao, Nanjing University of Information Science and Technology, China

Title: New applications for high repetition rate high energy P-P lasers
Victor V Apollonov, Prokhorov General Physics Institute, Russia

Title: Cascaded multi-dithering technique for high power beam combination setup
Hee Kyung Ahn, Korea Research Institute of Standard and Science, South Korea

Title: Investigation of distribution mechanism of noise fluxes between three oscillating modes of a free-running class -A laser
Jafar Jahanpanah, Kharazmi University, Iran

Video Presentation

Title: The effects of laser characteristics on melting of workpiece subject to surface plasmon excited by a pulsed laser
Wei Peng-Sheng, National Sun Yat-Sen University, Taiwan

Young Research Forum

Title: Research progress on metal ions doped lithium tantalate crystals and their applications in green laser
Kang Xueliang, Shandong University, China

Title: Laser processing of solar cells on laser crystalized silicon
Tim Frijnts, Helmholtz Zentrum für Materialien und Energie Berlin, Germany

Title: Surface alloying of Al coating on P92 steels by laser line scanning
Hector Santos, University of Madrid, Spain

Networking & Refreshment Break @ Main Lobby

Poster Timings
Title: Wireless data transmission method using pulsed THz sliced spectral continuum
Sergei A Kozlov, ITMO University, Russia

Title: Utilization of continuous low power visible laser in the 3D printing of strong and ultra-light weight cross-linked silica aerogel
Khaled M Saoud, Virginia Commonwealth University in Qatar, Qatar

Title: 4D-Photonic crystals
Naimi E K, National University of Science and Technology “MISIS”, Russia

Title: Analytical approaches to description of nonlinear processes in inhomogeneous optical waveguides
Mikhail A Bisyarin, St.Petersburg State University, Russia

Poster Presentations @ Main Lobby

<table>
<thead>
<tr>
<th>PHO001</th>
<th>Title: Plasmon-coupled CuInS2 and CuInS2/ZnS for hybrid white LEDs</th>
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<td>Bagher Tabibi, Hampton University, USA</td>
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<thead>
<tr>
<th>PHO002</th>
<th>Title: PLs from bandedge and surface-trapped state transitions in CdSe quantum dots for white light applications</th>
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</thead>
<tbody>
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<td>Bagher Tabibi, Hampton University, USA</td>
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<tr>
<th>PHO003</th>
<th>Title: Fiber-Optic heterodyne frequency modulation sensor for volatile organic compounds (vocs) detection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rajibur Rahaman Khan, Kyungpook National University, Korea</td>
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</table>

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<thead>
<tr>
<th>PHO004</th>
<th>Title: A study of the relative cost in elastic optical OFDM networks</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Anwar Alyatama, Kuwait University, Kuwait</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>PHO005</th>
<th>Title: TBA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hamza Alsalla, Exeter University, UK</td>
</tr>
</tbody>
</table>

Closing & Award Ceremony
Scientific Program
3rd International Conference and Exhibition on Lasers, Optics and Photonics
September 01-03, 2015 Valencia, Spain
## Scientific Program

### Day 1  September 01, 2015

#### Registrations

Valentia B

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### Opening Ceremony

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### 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

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### 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

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### Coffee Break @ Foyer

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### Group Photo & Lunch Break @ Aqua Restaurant

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### Titles and Presenters

- **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 @ Foyer

**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

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

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

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

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 Prakasham, 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 @ Foyer

- **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

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**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
<table>
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<tr>
<th>Title: Growth of semiconductor nanoparticles in polymer matrices by nanosecond laser</th>
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<tr>
<td>Damian C Onwudiwe, North-West University (Mafikeng Campus), South Africa</td>
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<tr>
<th>Title: Novel compact laser sources for biomedical photonics: Diagnostics and treatment</th>
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<td>Edik U Rafailov, Aston University, UK</td>
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<th>Coffee Break</th>
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<th>Title: Advanced fiber grating devices fabricated for all-optical signal processing</th>
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<td>Xuewen Shu, Huazhong University of Science and Technology, China</td>
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<th>Title: Optics on nano-structured surfaces</th>
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<td>Valerio Pruneri, The Institute of Photonic Sciences, Spain</td>
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<th>Title: Transport at spin-orbit and exchange-split interfaces: Giant universal asymmetry</th>
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<td>Drouhin Henri-Jean, University Paris Saclay, France</td>
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<th>Title: Ultra high resolution spectroscopy and ultra-fast THz measurements using coherent synchrotron radiation</th>
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<td>Pascale Roy, Synchrotron SOLEIL, France</td>
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<th>Title: Dye-sensitized solar cells using ethynyl-linked porphyrin trimers for NIR photoelectric conversion</th>
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<td>Tomofumi Hamamura, University of Bordeaux, France</td>
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<th>Title: Polarization-tuned dynamic color filters exploiting a dielectric-loaded one dimensional aluminum grating</th>
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<td>Vivek Raj Shrestha, Kwangwoon University, South Korea</td>
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<th>Title: Fabrication of homogenous microstructures by femtosecond laser micromachining</th>
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<td>K M Tanvir Ahmmed, McGill University, Canada</td>
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| Lunch Break @ Aqua Restaurant |

| Panel Discussion |

| Best Poster Award |

| Closing Ceremony |