### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-08:35</td>
<td>Introduction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08:35-09:05</td>
<td>Title: Multi-mode optical quantum memory for quantum processing and communication</td>
<td>Artur V. Gleim, ITMO University, Russia</td>
<td></td>
</tr>
<tr>
<td>09:05-09:35</td>
<td>Title: TBA</td>
<td>Carl Christoph Jung, CCJ Software, Germany</td>
<td></td>
</tr>
</tbody>
</table>

### Special Session

**Title: Dielectric waveguide lasers: The realm of efficiency**

**Markus Pollnau, KTH – Royal Institute of Technology, Sweden**

### Group Photo

**Networking & Refreshment Break 10:20-10:35 @ Main Lobby**

### Session: Photonics

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:35-10:55</td>
<td>Title: A generalized method for calculating phase matching conditions in biaxial crystals</td>
<td>Guangwen Huo, Xijing University, China</td>
<td></td>
</tr>
<tr>
<td>10:55-11:15</td>
<td>Title: Electromagnetic waves interaction with various metallic nanomaterials</td>
<td>Michael Giersig, Helmholtz-Zentrum Berlin, Germany</td>
<td></td>
</tr>
<tr>
<td>11:15-11:35</td>
<td>Title: Ultrahigh charging of small spherical grains by the beam-plasma method for creating a compact neutron source</td>
<td>Vladimir B Karalnik, Troitsk Institute for Innovation and Fusion Research (SRC RF TRINITI), Russia</td>
<td></td>
</tr>
<tr>
<td>11:35-11:55</td>
<td>Title: The ABCD matrix for parabolic reflectors and its application to astigmatism free four-mirror cavities</td>
<td>Kevin Dupraz, Centre national de la recherche scientifique, France</td>
<td></td>
</tr>
<tr>
<td>11:55-12:15</td>
<td>Title: Soft matter for integrated photonics and resonances: Various hybrid approaches and adaptive technologies</td>
<td>Bruno Bêche, Université de Rennes, France</td>
<td></td>
</tr>
<tr>
<td>12:15-12:35</td>
<td>Title: Quantization of electromagnetic field in an inhomogeneous medium based on scattering matrix formalism (S-quantization)</td>
<td>Mikhail Kaliteevski, ITMO University, Russia</td>
<td></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:35-12:55</td>
<td>Title: All-polymer planar optical sensing devices integrated in thin foils</td>
<td>Bernhard Roth, Leibniz University Hannover, Germany</td>
<td></td>
</tr>
<tr>
<td>12:55-13:15</td>
<td>Title: Embossing dies for surface functionalization by laser micro structuring</td>
<td>Stephan Bruening, Schepers GmbH &amp; Co. KG, Germany</td>
<td></td>
</tr>
</tbody>
</table>

**Lunch Break 13:15-13:55 @ Element I+II Restaurant**
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
Baldeimar Ibarra-Escamilla, Instituto Nacional de Astrofisica, 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 15:55-16:10@ Main Lobby

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 Katliikov, 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

09:00-09:20 Title: The quantum dot spectrometer-Exploiting the limitless number of colors of QDs
Jie Bao, Tsinghua University, China
09:20-09:40  Title: Monolithically integrated tunable QW laser  
Abdullah J Zakariya, Ministry of Interior, Kuwait

09:40-10:00  Title: Spectrum-polarization encoding for broadband laser pulses basing on rotatory dispersion and its possible applications  
Shixiang Xu, Shenzhen University, China

10:00-10:20  Title: Exact analytical aberration theory of centered optical systems containing conic surfaces  
Boian Andonov Hristov, Bulgarian Academy of Sciences, Bulgaria

10:20-10:40  Title: Quantum algorithms for factorization problem  
Xinhua Peng, University of Science and Technology of China, China

10:40-11:00  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 11:00-11:15 @ Main Lobby

11:15-11:35  Title: Brillouin microscopy for sub-cellular 3D mechanical imaging  
Giuseppe Antonacci, Centre for Life Nano Science, Italy

11:35-11:55  Title: Router and routing designs for 3D torus optical network on chip  
Weigang Hou, Northeastern University, China

11:55-12:15  Title: New generation of a single-chip LEDs with superior colour rendering emission  
E U Rafailov, Aston University, UK

12:15-12:35  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

Session Introduction

12:35-12:55  Title: Importance of early diagnosis Retina  
Daniel Valverde, University of Guayaquil, Ecuador

12:55-13:15  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 13:15-13:55 @ Element I+II Restaurant

13:55-14:15  Title: Scleral contact lens for KC management  
Nezar R Damati, Eyezone Institute of Opticianry and Private Training, Kuwait

14:15-14:35  Title: Aerosol profiling by Raman Lidar in Nanjing, China  
Nianwen Cao, Nanjing University of Information Science and Technology, China

14:35-14:55  Title: New applications for high repetition rate high energy P-P lasers  
Victor V Apollonov, Prokhorov General Physics Institute, Russia

14:55-15:15  Title: Cascaded multi-dithering technique for high power beam combination setup  
Hee Kyung Ahn, Korea Research Institute of Standard and Science, South Korea

15:15-15:35  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

15:35-15:50  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

15:50-16:00  Title: Research progress on metal ions doped lithium tantalate crystals and their applications in green laser  
Kang Xuéliang, Shandong University, China
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00-16:10</td>
<td>Title: Laser processing of solar cells on laser crystalized silicon</td>
<td>Tim Frijnts, Helmholtz Zentrum für Materialien und Energie Berlin, Germany</td>
<td></td>
</tr>
<tr>
<td>16:10-16:20</td>
<td>Title: Surface alloying of Al coatings on P92 steels by laser line scanning</td>
<td>Hector Santos, University of Madrid, Spain</td>
<td></td>
</tr>
<tr>
<td>16:55-17:15</td>
<td>Title: Wireless data transmission method using pulsed THz sliced spectral continuum</td>
<td>Sergei A Kozlov, ITMO University, Russia</td>
<td></td>
</tr>
<tr>
<td>17:15-17:35</td>
<td>Title: Utilization of continuous low power visible laser in the 3D printing of strong and ultra-light weight cross-linked silica aerogel</td>
<td>Khaled M Saoud, Virginia Commonwealth University in Qatar, Qatar</td>
<td></td>
</tr>
<tr>
<td>17:35-17:55</td>
<td>Title: 4D-Photonic crystals</td>
<td>Naimi E K, National University of Science and Technology “MISIS”, Russia</td>
<td></td>
</tr>
<tr>
<td>17:55-18:15</td>
<td>Title: Analytical approaches to description of nonlinear processes in inhomogeneous optical waveguides</td>
<td>Mikhail A Bisyarin, St.Petersburg State University, Russia</td>
<td></td>
</tr>
</tbody>
</table>

Poster Presentations @ Main Lobby

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHO001 Title: Plasmon-coupled CuInS2 and CuInS2/ZnS for hybrid white LEDs</td>
<td>Bagher Tabibi, Hampton University, USA</td>
<td></td>
</tr>
<tr>
<td>PHO002 Title: PLs from bandedge and surface-trapped state transitions in CdSe quantum dots for white light applications</td>
<td>Bagher Tabibi, Hampton University, USA</td>
<td></td>
</tr>
<tr>
<td>PHO003 Title: Fiber-Optic heterodyne frequency modulation sensor for volatile organic compounds (vocs) detection</td>
<td>Rajibur Rahaman Khan, Kyungpook National University, Korea</td>
<td></td>
</tr>
<tr>
<td>PHO004 Title: A study of the relative cost in elastic optical OFDM networks</td>
<td>Anwar Alyatama, Kuwait University, Kuwait</td>
<td></td>
</tr>
<tr>
<td>PHO005 Title: TBA</td>
<td>Hamza Alsalla, Exeter University, UK</td>
<td></td>
</tr>
</tbody>
</table>

Closing & Award Ceremony

Bookmark your dates

6th International Conference on Photonics
August 26-28, 2017   London, UK

e-mail: photonics@conferenceseries.net   Website: www.photonics.conferenceseries.com

3rd Global Optometrist Meeting and Trade Fair on Laser Technology
September 11-13, 2017   Paris, France

e-mail: lasertech@conferenceseries.net   Website: www.laser-technology.conferenceseries.com