6th International Conference on

Photonics

&

7th International Conference on

Laser Optics

July 31- August 02, 2017   Milan, Italy
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<td>08:00-09:00</td>
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<td>09:00-09:25</td>
<td>Opening Ceremony</td>
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<td>09:25-09:30</td>
<td>Keynote Forum</td>
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<td>09:25-09:30</td>
<td>Introduction</td>
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| 09:30-10:00 | 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 |
| 10:00-10:30 | Title: Understanding laser materials processing: the dichotomy between laser damage and laser machining  
Manyalibo J Matthews, Lawrence Livermore National Laboratory, USA |
| 10:30-10:50 | Networking & Refreshments                                             |
| 10:50-11:20 | Title: WDM bidirectional optical wireless communications  
Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan |
| 11:20-11:50 | Title: Twisted and turned layers – no problem for ITE (Immersion Transmission Ellipsometry)  
Carl C Jung, CCJ Software, Germany |
| 11:50-12:20 | Title: Energy transfer dynamics in molecular junctions under ultra-short excitation pulses from non-equilibrium Green’s function formalism  
Fabienne Michelini, Aix Marseille University, France |
| 12:20-12:45 | Session Introduction                                                 |
| 12:20-12:45 | Title: Towards spin-photon interface for NV color center in diamond  
Alexey Akimov, A&M University, USA |
| 12:45-13:10 | Title: Optical sensing for dynamics of the localized/delocalized states in binary quantum  
Branislav Vlahovic, North Carolina Central University, USA |
| 13:10-14:10 | Lunch Break                                                          |
| 14:10-14:35 | Title: Study of the angular momentum of light from plasmonic crystals  
H C Ong, The Chinese University of Hong Kong, Hong Kong |
| 14:35-15:00 | Title: A possible approach to quantum computation by using classical optical fields modulated with pseudorandom phase sequence  
Jian Fu, Zhejiang University, China |
| 15:00-15:25 | Title: Label free bio detection using nanohole array structure  
Jae Eun Jang, DGIST, Korea |
| 15:25-15:50 | Title: High-speed transceiver electronics for next-generation optical networks  
Johan Bauwelinck, Ghent University, Belgium |
| 15:50-16:10 | Networking & Refreshments                                             |
| 16:10-16:35 | Title: General analytic solutions to the various forms of the nonlinear Schrödinger equation using the Jacobi elliptic function expansion method  
Nikola Z Petrović, University of Belgrade, Serbia |
16:35-17:00  Title: Optics of photonic liquid crystals at frequencies of localized modes  
  V A Belyakov, Landau Institute for Theoretical Physics, Russia

17:00-17:25  Title: Optical waveguide properties of myelinated and unmyelinated nerve axons from ultraviolet to NIR wavelengths  
  Enayet Rahman, University of London, UK

17:25-17:50  Title: Polaritons in solid state physics – from the basic concept to their mathematical properties  
  Pinsker F, University of Vienna, Austria

Panel Discussion
Day 2  August 01, 2017
Hall Name: Brera

Keynote Forum

09:00-09:05  Introduction
  Title: III-V nanowire arrays as a platform for photovoltaics, solid state lighting and electronics  
  Bernd Witzigmann, Kassel University, Germany

09:05-09:35  Title: Nanostructured GaN light-emitting diodes on unusual substrates and blue light enhancement by surface plasmon resonance  
  Jun Hee Choi, Samsung Electronics, South Korea

10:05-10:35  Title: Design and implementation of Er/Yb co-doped fiber lasers  
  Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan

Networking & Refreshments 10:35-10:55 @ Garden Bar floor -1

Title: A portable laser heterodyne radiometer for measurements of CO2 and CH4 in the atmospheric column  
Emily Wilson, NASA Goddard Space Flight Center, USA

Title: Design of 1xN MMI power and wavelength splitters/couplers based on slot silicon waveguide structures  
Dror Malka, Bar Ilan University, Israel

Title: Progress on microwave photonic signal processing and transmission  
Mingshan Zhao, Dalian University of Technology, China

Title: Generation of Mathieu-Gauss beams with an intra-cavity spatial light modulator  
Shu-Chun Chu, National Cheng Kung University, Taiwan

Exhibitor Hosted Session

12:55-13:05  HE Zhuoming, CHINESE LASER PRESS, China

Lunch Break 13:05-14:05 @ Restaurant

Sessions: Lasers Types  |  Laser Application  |  Solid-State Lasers
Session Chair: Lap Van Dao, Swinburne University of Technology, Australia
Session Co-chair: Xiaoyi Bao, University of Ottawa, Canada

Session Introduction

14:05-14:30  Title: Infrared laser system through mixing molecular gas lasers  
  Andrei Kotkov, P N Lebedev Physical Institute, Russia

14:30-14:55  Title: The random fiber lasers and their applications  
  Xiao-yi Bao, University of Ottawa, Canada

14:55-15:20  Title: High-speed video analysis of plasma behavior and estimation of laser absorption in internal processing of glass by femtosecond laser  
  Etsujii Ohmura, Osaka University, Japan

15:20-15:45  Title: Coherent extreme ultraviolet sources  
  Lap Van Dao, Swinburne University of Technology, Australia

Networking & Refreshments 15:45-16:05 @ Garden Bar floor -1
16:05-16:30  Title: Recent development in vortex and LG 01-mode Ti: sapphire laser  
Jianlang Li, Shanghai Institute of Optics and Fine Mechanics - CAS, China

16:30-16:55  Title: Laser optics for high power laser facility  
Jianqiang Zhu, Shanghai Institute of Optics and Fine Mechanics, China

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| 16:55-17:05  Title: Quantum photonics, an authentic concept for attosecond optics  
Hassan Kaatuzian, Amirkabir University of Technology, Iran |

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<th>Poster Presentations 17:05-17:30 @Meeting Halls</th>
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| PLO01  Title: Instantaneous frequency measurement of microwave signals using a "frequency-amplitude" conversion in the fiber Bragg grating and the method of additive frequency offset  
Alexander A Ivanov, KNRTU-KAI, Russia |
| PLO02  Title: Development of 100 W-class solar-pumped laser system  
Tomomasa Ohkubo, Tokyo University of Technology, Japan |
| PLO03  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 |
| PLO04  Title: Carbon monoxide laser on extra-high vibrational transitions  
Andrei Kotkov, P N Lebedev Physical Institute, Russia |
| PLO05  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 |

Panel Discussion  
Awards & Closing Ceremony  
Day 3  August 2, 2017  
Networking Lunch @ Restaurant

Bookmark your dates

8th International Conference on Photonics  
August 20-22, 2018  London, UK  
E-mail: photonics@physicsconferences.org  
Website: photonics.conferenceseries.com

9th International Conference on Laser Optics  
August 20-22, 2018  London, UK  
E-mail: laseroptics@physicsconferences.org  
Website: laser-technology.conferenceseries.com