

6th International Conference on

Photonics

&

7th International Conference on

Laser Optics

July 31 - August 02, 2017 Milan, Italy

Conference Series - America

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA
Toll Free: 1-888-843-8169, P: 702-508-5200, F: +1-650-618-1417

Conference Series - UK

Kemp House, 152 City Road, London EC1V 2NX, UK
Toll Free: +0-800-014-8923

conference**series**.com 09:00-9:25

Opening Ceremony

Keynote Forum

- 09:25-09:30 Introduction
Title: High-internal-efficiency quantum cascade lasers: the road to mid-infrared lasers of 40% CW wall-plug efficiency
- 09:30-10:00
Dan Botez, University of Wisconsin-Madison, USA
Title: Understanding laser materials processing: the dichotomy between laser damage and laser machining
- 10:00-10:30
Manyalibo J Matthews, Lawrence Livermore National Laboratory, USA

Networking & Refreshments 10:30-10:50 @ Garden Bar floor -1

- 10:50-11:20
Title: WDM bidirectional optical wireless communications
Shien-Kuei Liaw, National Taiwan University of Science and Technology, Taiwan
Title: Twisted and turned layers – no problem for ITE (Immersion Transmission Ellipsometry)
- 11:20-11:50
Carl C Jung, CCJ Software, Germany
Title: Energy transfer dynamics in molecular junctions under ultra-short excitation pulses
- 11:50-12:20
Fabienne Michelini, Aix Marseille University, France

Sessions: Photonics | Nanophotonics | Optical Nanomaterials | Optical Communications and Networking

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

Session Co-Chair: V A Belyakov, Landau Institute for Theoretical Physics, Russia

Session Introduction

- 12:20-12:45
Title: Towards spin-photon interface for NV color center in diamond
Alexey Akimov, A&M University, USA
Title: Optical sensing for dynamics of the localized/delocalized states in binary quantum
- 12:45-13:10
Branislav Vlahovic, North Carolina Central University, USA

Lunch Break 13:10-14:10 @ Restaurant

- 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
Title: A possible approach to quantum computation by using classical optical fields modulated with pseudorandom phase sequence
- 14:35-15:00
Jian Fu, Zhejiang University, China
Title: Label free bio detection using nanohole array structure
- 15:00-15:25
Jae Eun Jang, DGIST, Korea
Title: High-speed transceiver electronics for next-generation optical networks
- 15:25-15:50
Johan Bauwelinck, Ghent University, Belgium

Networking & Refreshments 15:50-16:10 @ Garden Bar floor -1

- 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
- 09:35-10:05 **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

- 10:55-11:25 **Title: A portable laser heterodyne radiometer for measurements of CO₂ and CH₄ in the atmospheric column**
Emily Wilson, NASA Goddard Space Flight Center, USA
- 11:25-11:55 **Title: Design of 1xN MMI power and wavelength splitters/couplers based on slot silicon waveguide structures**
Dror Malka, Bar Ilan University, Israel
- 11:55-12:25 **Title: Progress on microwave photonic signal processing and transmission**
Mingshan Zhao, Dalian University of Technology, China
- 12:25-12:55 **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**
Xiaoyi 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**
Etsuji 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

Video Presentation

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

Poster Presentations 17:05-17:30 @Meeting Halls

PL001 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

PL002 Title: **Development of 100 W-class solar-pumped laser system**
Tomomasa Ohkubo, Tokyo University of Technology, Japan

PL003 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

PL004 Title: **Carbon monoxide laser on extra-high vibrational transitions**
Andrei Kotkov, P N Lebedev Physical Institute, Russia

PL005 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

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August 20-22, 2018 London, UK

E-mail: photonics@physicsconferences.org

Website: photonics.conferenceseries.com

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