

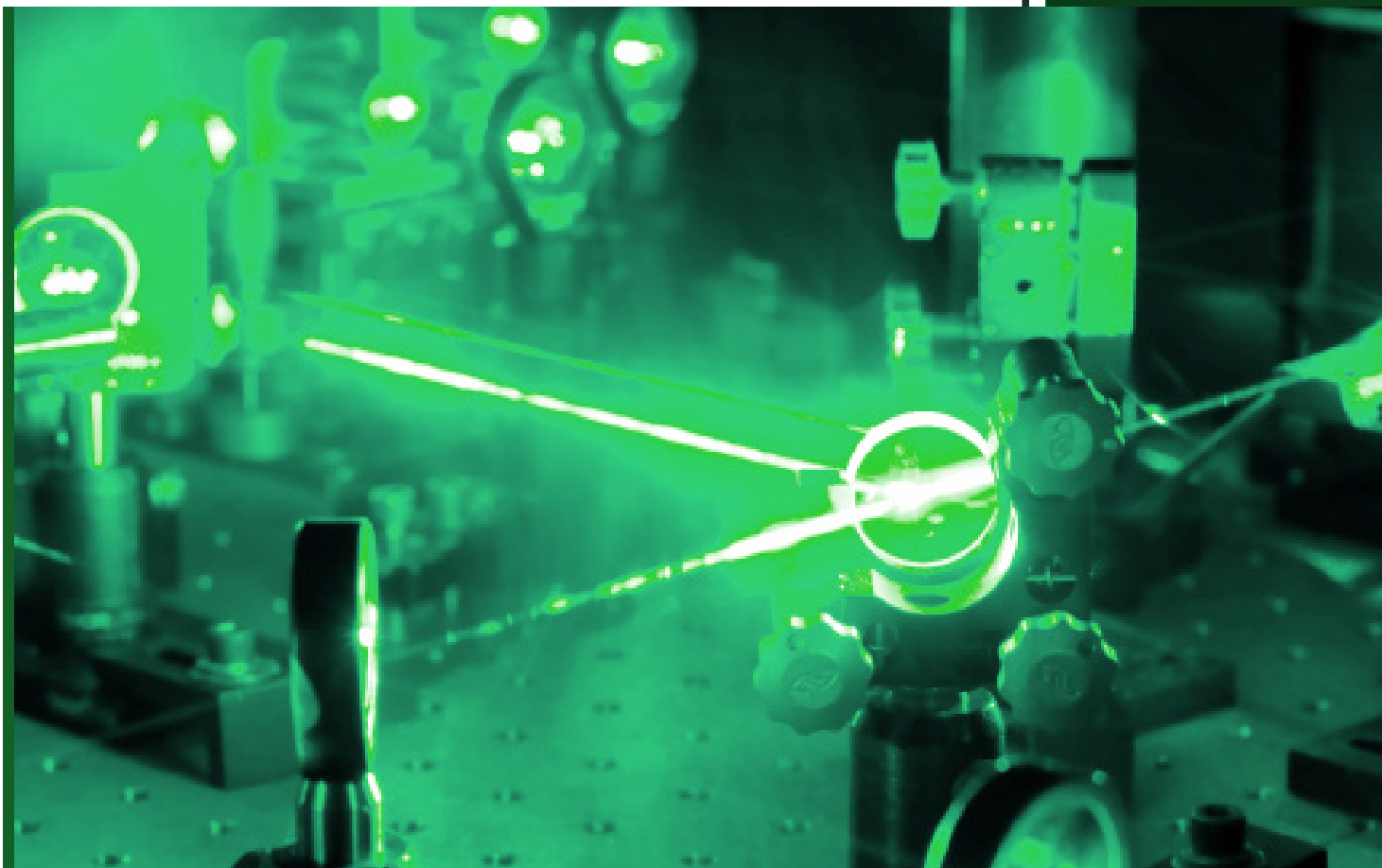
## Scientific Program

International Conference and Trade fair on

# Laser Technology

July 20-22, 2015 Orlando, Florida, USA

281<sup>st</sup> OMICS International Conference



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Day 1 July 20, 2015

09:30 - 10:30 Registrations

Tegel



10:30 - 10:55

## Opening Ceremony

### Keynote Forum

- 10:55-11:00 **Introduction**  
11:00-11:45 **Victor V. Apollonov**  
Russian Academy of Sciences, Russia  
11:45-12:30 **Konstantin L. Vodopyanov**  
University of Central Florida, USA

### Group Photo

Lunch break 12:30-13:30 @ Lobby North

Track 5: Optoelectronic Devices and Materials

Track 6: Power Electronics

Track 8: Lasers in Medicine

Track 9: Lasers in Industry

Track:10 Application of Photonics

Session Chair: Victor V Apollonov, Russian Academy of Sciences, Russia

### Session Introduction

- 13:30-14:10 **Laser treated metallic probes for cancer treatment in MRI systems**  
Arvinda Kar, University of central Florida, USA  
14:10-14:50 **White light emission from solid carbon in water during hydrogen generation by VIS nanosecond laser pulse irradiation**  
Ikuko Akimoto, Wakayama University, Japan  
14:50-15:20 **Intelligent LED brightness control system using internet-of-things technology**  
Suk-Ju Kang, Dong-A University, South Korea

Coffee break 15:20-15:40 @ Foyer

- 15:40-16:20 **Archaeophotonics**  
Surya Harikrishnan, Manipal University, India  
16:20-17:00 **Ultracold atom-optical analogs of electronic components and devices**  
Ron A. Pepino, Florida Southern College, USA  
17:00-17:20 **DMP-1 expression in vital pulp treated with low-level laser therapy**  
Nádia Carolina Teixeira Marques, University of São Paulo, Brazil

Day 2 July 21, 2015

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### Keynote Forum

- 11:00-11:40 **Bernard S. Gerstman**  
Florida International University, USA

Track 3: Nanophotonics  
Track 4 : Biophotonics  
Track 8: Lasers in Medicine  
Track 10: Applications of Photonics

Session Chair: Bernard S. Gerstman, Florida International University, USA

Session Introduction

- 11:40-12:20 **High resolution phase shifting methods in multiple beam holographic interferometry**  
Pramod Rastogi, Ecole Polytechnique Federale de Lausanne, Switzerland
- 12:20-12:40 **Development of an integrated multimodal instrument for bacterial colony analysis**  
Huisung Kim, Purdue University, USA
- 12:40-13:00 **Towards a portable confocal raman module for sample identification and quantification**  
Iyll Joon Doh, Purdue University, USA

Lunch Break 13:00-14:00 @ Lobby North

- 14:00-14:40 **ErCr:YSGG laser-evidence based application in oral & maxillofacial surgery**  
Zainab Choudary, Maulana Azad Institute of Dental Sciences, India
- 14:40-15:20 **A new method of step height measurement using two laser wavelengths**  
Naoyuki Koyama, Koyama Research Group on Distance Measurement, Japan
- 15:20-16:10 **Workshop: Spectroscopy in Archaeology**  
Surya Harikrishnan, Manipal University, India

Coffee break 16:10-16:30 @ Foyer

16:10-16:40 **Poster Presentations @ Lobby North**

Day 3 July 22, 2015

Tegel

Keynote Forum

10:00-10:45 **Ahmet Ali Yanik**  
University of California, USA

Coffee break 10:45-11:00 @ Foyer

Track 3: Nanophotonics  
Track 4: Biophotonics  
Track 5: Optoelectronic Devices and Materials

Session Chair: Bernard S. Gerstman, Florida International University, USA

Session Introduction

- 11:00-11:40 **Fabrication and characterization of direct laser written 3D micro-structures in arsenic trisulfide chalcogenide glasses**  
Casey M. Schwarz, University of Central Florida, USA
- 11:40-12:20 **Advances in infrared optical fibers**  
Guangming Tao, University of Central Florida, USA
- 12:20-13:00 **Optical signatures of states bound to vacancy defects in monolayer MoS<sup>2</sup>**  
Michael N. Leuenberger, University of Central Florida, USA

Lunch break 13:00-13:45 @ Lobby North

- 13:45-14:15 **Biomedical applications of plasma spectroscopy**  
Unnikrishnan V. K, Manipal University, India
- 14:15-14:45 **Prediction of gain and excess noise factor for avalanche photodetector using multilayer perceptron neural network**  
Sara Fadaei, Karoon University, Iran

Closing ceremony

## By Country

USA	Spain	UAE	Canada	Germany	Australia	India	UK	China
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## By City

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