

# Global Scientific Guild Conference

## Program

### Global Webinar on Laser, Optics and Photonics September 25-26, 2021

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<https://www.globalscientificguild.com/laser-optics-photonics/>

# Day-1

Saturday, September 25, 2021

Timing: 11:00-18:00 British Summer Time (BST)

11:00-11:15 Introduction/Opening Ceremony

11:15-11:50 **Title: Flexible double-side energy storage device by femtosecond laser fabrication**

Prof. Lijun Yang, Harbin Institute of Technology, China

11:50-12:25 **Title: Efficient THz radiation generation in plasma**

Prof. Niti Kant, Lovely Professional University, India

12:25-13:00 **Title: Optical metamaterials and their applications**

Prof. Weiping Wu, Chinese Academy of Sciences, China

13:00-13:15 **Break**

13:15-13:50 **Title: Pulsed Laser Ablated Functional Nanostructures for Upcoming Biomedicine**

Prof. Sib Krishna Ghoshal, Universiti Teknologi Malaysia, Malaysia

13:50-14:25 **Title: Interactions between light and moving particles in a fluid: liquid metamaterials and active matter**

Prof. Alain Celzard, Université de Lorraine, France

14:25-14:55 **Title: Graphene quantum dot sensitizes GaN nanotower/ZnO nanorods heterostructure based optoelectronic devices**

Prof. Govind Gupta, CSIR - National Physical Laboratory (CSIR-NPL), India.

14:55-15:25 **Title: Fiber Optics Communication: The Backbone of Highspeed Data/Mobile/ Telecommunication System and Provide Multiservice Applications to Support Digital World**

Prof. Ardhendu Sekhar Patra, Sidho-Kanho-Birsha University, India

15:25-15:40 **Break**

15:40-16:10 **Title: Optoelectronic, mechanical, vibrational properties of triple perovskites  $Ba_2K_2Te_2O_9$  and  $Ba_2KNaTe_2O_9$ : Density functional theory**

Prof. Souraya Goumri-Said, Alfaisal University, Saudi Arabia

16:10-16:40 **Title: High intensity non-ablative lasers in sleep apnea**

Prof. Denise M Zezell, IPEN/CNEN, Brazil

16:40-17:10 **Title: The Importance of High Power in Laser Photobiomodulation, A Systematic Review and Meta-analysis**

Dr. William Todd Penberthy, Aspen Lasers, USA

17:10-17:40 **Title: Astronomical spectrographs on a chip - Getting ready for the next-generation telescopes**

Dr. Pradip Gatkine, California Institute of Technology, USA

17:40-18:00 **Panel Discussion**

## Day 1 Ends

# Day-2

Sunday, September 26, 2021

Timing: 11:00-17:30 British Summer Time (BST)

- 11:00-11:30** **Title: Effect of Yb<sup>3+</sup> Ion Clustering on the enhancement of Upconversion Fluorescence**  
Dr. Sangeetha Balabhadra, University of Canterbury, New Zealand
- 11:30-12:00** **Title: High-Speed Multi-format Digital Encoding of Si p-n Junction Waveguide Modulator at C-band**  
Prof. Gong-Ru Lin, National Taiwan University, Taiwan
- 12:00-12:30** **Title: Integrated Phoxonic devices for ultra-low loss sensing: a comprehensive review**  
Dr. Anurag Sharma, Punjab Engineering College, India
- 12:30-13:00** **Title: Plano-Convex Microsphere Lens functioning for nano-fabrication and nano-imaging**  
Dr. Bing Yan, Bangor University, UK
- 13:00-13:15** **Break**
- 13:15-13:45** **Title: Towards integrated atomo-photonics waveguide circuits for inertial sensing and quantum computing**  
Dr. Yuri B Ovchinnikov, National Physical Laboratory, UK
- 13:45-14:15** **Title: New formalisms for the Optical equivalence theorem and application**  
Dr. Orchidea Maria Lecian, Comenius University, Slovakia
- 14:15-14:45** **Title: Photonic crystals umbrella for Thermal desalination: Simulation study**  
Prof. Arafa H Aly, Beni-Suef University, Egypt
- 14:45-15:15** **Title: Linear Density of ZnO Zinc Rocsalt Structure under Isothermal and Isobaric Ensembles a MD Computation**  
Dr. Yahia Chergui, University of Boumerdes, Algeria
- 15:15-15:30** **Break**
- 15:30-16:00** **Title: Watching Electrons Move: Understanding Solar Energy Conversation using Ultrafast XUV Spectroscopy**  
Dr. Somnath Biswas, Princeton University, USA
- 16:00-16:30** **Title: Controlling light at the nanoscale with shaped nanostructures**  
Dr. Michael Reimer, University of Waterloo, Canada
- Poster Presentations**
- 16:30-16:45** **Title: Utilization of the 1064nm Wavelength in Photobiomodulation: A Systematic Review and Meta-Analysis**  
Dr. William Todd Penberthy, Aspen Lasers, USA
- 16:45-17:00** **Title: New diphenylsulfone-based materials as hosts for efficient third generation OLED devices**  
Mr. Dovydas Blazevicius, Kaunas University of Technology, Lithuania.
- 17:00-17:30** **Panel Discussion**

## Day 2 Ends

# Vote of Thanks

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## Next Event:

# 2<sup>nd</sup> Global Webinar on Laser, Optics and Photonics

*February 04-06, 2022*

*Contact Info:*

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