

AGENDA

AIPT – INTERNATIONAL DAY OF LIGHT 2021

Location: Online
Date: 21st May 2021
Time: 9:00 -18:00
Chairs: Dr. Daniel Hill, Dr. Vladimir Gordienko, Mahmood Abu-Romoh

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|----------------------|---|
| 09:00 – 09:15 | Prof. Sergei Turitsyn
Introduction |
| 09:15 – 09:30 | Igor Kudelin
OSA/SPIE Student Chapters |
| 09:30 – 09:45 | Dr. Sergey Sergeyev
Multi-scale fibre-based optical frequency combs: science, technology and applications (“MEFISTA”) |
| 09:45 – 10:00 | Dr. Auro Perego
Tuneable Optical Frequency Combs in Nonlinear Resonators |
| 10:00 – 10:15 | Prof. Nick Doran
FOPA Group and why we love parametric amplifiers |
| 10:15 – 10:30 | Dr. Yiming Li
Mode division multiplexing: A ultra-fast data transmission scheme in free space optical communication systems |
| 10:30 – 10:45 | Dr. Karina Litvinova
Intraoperative laser-based modalities for myocardial assessment |
| 10:45 – 11:00 | Dr. Sergei Sokolovsky
Consuming light |
| 11:00 – 11:30 | Coffee Break |

- 11:30 – 11:45** **Student Talk: Mariia Borovkova**
Stokes polarimetry for label-free detection of Alzheimer's disease in mouse brain tissue
- 11:45 – 12:00** **Ivan Lopushenko**
Human visual perception of polarized light
- 12:00 – 12:15** **Dr. Sonia Boscolo**
Recent machine-learning applications in ultrafast nonlinear fibre photonics
- 12:15 – 12:30** **Dr. Morteza Kamalian Kopae**
Neural Network-Based Equalisation in the Nonlinear Fourier Domain
- 12:30 – 12:45** **Student Talk: Pedro J. Freire**
Neural Network Application in Optical Channel Equalization
- 12:45 – 13:00** **Student Talk: Mohammad Hosseini**
Cost-efficient Networking
- 13:00 – 14:00** **Lunch**
- 14:00 – 14:15** **Dr. Lucas Souza**
Multi-functional photo-thermal biomaterials for bone cancer therapy
- 14:15 – 14:30** **Dr. Daniel Hill**
H2020 MONPLAS photonic technologies for micro and nano-plastic identification and enumeration
- 14:30 – 14:45** **Student Talk: Namita Sahoo**
Optical Fibre Grating Sensors – Fabrication, Measurement and Applications
- 14:45 – 15:00** **Student Talk: Nasir G. Bello**
Quantum dot Antenna for THz generation
- 15:00 – 15:10** **Student Talk: Gabriella Gardosi**
Optofluidics in a capillary fibre
- 15:10 – 15:20** **Dr. Manuel Crespo-Ballesteros**
Nonlinear effects in SNAP resonators
- 15:20 – 15:30** **Prof. Misha Sumetsky**
What's up with SNAP

15:30 – 15:45 **Announcement of the winners of photo competition**

16:00 – 16:30 **Break**

16:30 onwards **Quiz**

