## AGENDA AIPT – INTERNATIONAL DAY OF LIGHT 2021

**Location:** Online

Date: 21<sup>st</sup> May 2021 Time: 9:00 -18:00

Chairs: Dr. Daniel Hill, Dr. Vladimir Gordienko, Mahmood Abu-Romoh

09:00 - 09:15	Prof. Sergei Turitsyn Introduction
09:15 - 09:30	Igor Kudelin OSA/SPIE Student Chapters
09:30 - 09:45	<b>Dr. Sergey Sergeyev</b> Multi-scale fibre-based optical frequency combs: science, technology and applications ("MEFISTA")
09:45 – 10:00	<b>Dr. Auro Perego</b> 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	Student Talk: 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
	Dr Lucas Souza
14:00 – 14:15	Dr. Lucas Souza  Multi-functional photo-thermal biomaterials for bone cancer therapy
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14:15 – 14:30	Multi-functional photo-thermal biomaterials for bone cancer therapy  Dr. Daniel Hill  H2020 MONPLAS photonic technologies for micro and nano-plastic identification and enumeration
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15:30 – 15:45 Announcement of the winners of photo competition

16:00 – 16:30 Break

16:30 onwards Quiz





















