

## WELCOME AND OPENING

- 09:00-09:10 Welcome by Prof. Wlodek Forysiak  
09:10-10:00 Recent advance in optical communications at AiPT  
Dr. Mingming Tan, Dr. Morteza Kamalian-Kopae and Dr. Vladimir Gordienko

## SESSION 1: FUTURE OPTICAL NETWORKS (Chair: Pratim Hazarika)

- 10:00-10:30 Single-ended coherent reception for high baudrate transceivers  
Dr. Son Thai Le, Nubis Communications, USA  
10:30-11:00 Towards power-efficient data center networks  
Dr. Kai Shi, Microsoft, UK  
11:00-11:30 Coherent solutions for next-generation intra-data center communications  
Dr. Giuseppe Rizzelli, Politecnico di Torino, Italy  
11:30 -11:40 Coffee break

## SESSION 2: ULTRA-WIDEBAND TRANSMISSIONS (Chair: Aleksandr Donodin)

- 11:40-12:10 Ultra-wideband IM/DD transmission over hollow-core fibre  
Dr. Yang Hong, University of Southampton, UK  
12:10-12:40 Recent experimental advance in optical multiband transmissions systems for S-C-L-Band  
Robert Emmerich, Fraunhofer HHI, Germany  
12:40-13:10 Signal power asymmetry optimisation: How it all started and where we are now  
Dr. Pawel Rosa, National Institute of Telecommunications, Poland  
13:10-14:00 Lunch

## SESSION 3: STATE-OF-THE-ART OPTICAL AMPLIFIERS (Chair: Mingming Tan)

- 14:00-14:30 State of the art optical amplifier: From the industry perspective  
Dr. Ian McClean, II-VI Photonics, UK  
14:30-15:00 Discrete Raman amplifiers for C+L band  
Dr. Sijing Liang, University of Southampton, UK  
15:00-15:30 Bismuth-doped fibre amplifier for O+E band  
Yu Wang, University of Southampton, UK  
15:30-15:45 Speed networking: ESR's presentations  
15:45-16.00 Coffee break

## SESSION 4: CAREER PATHWAYS BEYOND PHD

- 16:00-16:30 Panel discussions: Career pathways in optical communications (industry, academia and the intersection)  
Dr Auro Perego, Dr. Kai Shi, Dr. Ian McClean, Dr. Muhammad Malik, Dr. Pawel Rosa, Robert Emmerich, Dr. Son Thai Le, Warren Grace  
16:30-16:40 Closing by Dr Mingming Tan  
16:40-17:30 Guided tour to Optical Communications Laboratory at AiPT  
18:00 Invited speakers' dinner