

Fibre Raman laser-based transmission and sensing technologies (AI TC)

January 16-21 2017

16th January (room NW708)

Welcome 9:30 – 9:45

Laser safety lecture 9:45 -10:15: Alex Rozhin (Aston University)

Eye test (10:30 – 13:30) - Vision science (Dr. Olivia Hunt)

Lunch 13:30 -14:30 - Aston Cafeteria

7th Floor Labs

Fibre Raman-based optic communications: introduction to the experimental demonstration
14:30 – 15:30: Paul Harper (Aston University)

Raman assisted fibre optic parametric amplification: introduction to the experimental demonstration
15:30 – 16:30: Paul Harper (Aston University)

17th January (room NW708)

Experiments on fibre Raman-based transmission
9:00- 13:00: Paul Harper (Aston University)

Coffee break 11:00 – 11:50

Lunch 13:00 -14:00 Aston Cafeteria

Experiments on Raman assisted fibre optic parametric amplification
14:00 – 17:00: Paul Harper (Aston University)

Coffee break 15:30 – 15:50

18th January (room MB186)

Real-time intensity and spectral measurements in fibre lasers
9:30 – 10:30: Srikanth Sugavanam (Aston University)

Coffee break 10:30 – 11:00

Raman fibre lasers: design, modelling and experiment
11:00 – 12:00: Nikita Tarasov (Aston University)

Random fibre lasers: science and technology (preliminary title)
12:00 – 13:00: Sergey K. Turitsyn (Aston University)

Lunch 13:00 -14:00 Aston Cafeteria

Modelling advanced Raman amplification schemes: basic theory and practice. 14:00 – 17:00: Juan Diego Ania-Castañon (IO-CSIC, SPAIN) (**Room MB266**)

Coffee break 15:30 – 15:50

Restaurant Meal- Café Rouge- The Waters Edge, Brindley Place, Broad Street, Birmingham, Midlands, B1 2HJ- 6pm

19th January (room MB186)

Fibre Raman amplifier-based transmission: VPIphotonics algorithms and software trials
9:00 – 10:30: Hadrien Louchet (VPIPhotonics)

Coffee break 10:30 – 10:50

Rayleigh and Brillouin sensors.

10:50 – 13:00: Andrei Fotiadi (University Mons, Belgium)

Lunch 13:00 -14:00 Aston Cafeteria

13:00 – 14:00 Hans Bissessur (Alcatel-Lucent, France). Modern fibre Raman-based unrepeated transmission systems")

Coffee break 15:00 – 15:30

Polarisation phenomena in fibre Raman amplifiers: stochastic modelling and analytical approaches 15:30 – 17:00: Sergey V. Sergeev (Aston University)

20th January (room MB186)

9:30-10:30. Xtera: Fibre Raman-based fibre optic communications: an industrial perspective (Steve Desbruslais)

10:30 -11:30 Stefan Wabnitz (Università di Brescia, Italy), Fibre Raman polarizers)

11:30 – 12:30 Colin McKinstrie (Huawei, USA). Preliminary title of presentation: "Polarization phenomena in Raman & parametric amplifiers with different spinning profile")

Lunch 12:30 – 13:30 Aston Cafeteria

Examination 13:30 – 14:30

Closing remarks 14:30

21st January (Aston University Main Entrance) (ESR/ERs Only)

Warwick Castle-8.30-4.30pm

Warwick CV34 4QU- Coach will leave at 8.30 from the Aston clock tower. Please all meet at Aston University main entrance for this time and we will leave Warwick at 4.30pm.

<https://www.warwick-castle.com>