

EPSRC CDT in Applied Photonics Conference

Monday 1st July 2024, James Watt Centre 2, Heriot-Watt University

0945 Poster set-up

1000 Coffee & Registration

1030 Launch of EPSRC CDT in Use-Inspired Photonic Sensing and Metrology – Dr Bill MacPherson, Prof. Derryck Reid & Prof. Duncan Hand

1100 Keynote Speaker - Dr Jonathan Silver NPL - *Kerr nonlinear optics with microresonators*

1130 2nd year CDT in Applied Photonics students research poster pitches

1145 1st year CDT in Applied Photonics students Systems Engineering poster pitches

1200 Photonics Lab Tours - National Robotarium & David Brewster Building

1300 Lunch & 2nd year students poster viewing

1430 Keynote Speaker - Dr Alison Q. O’Neil Canon Medical Research Europe - *Photons, Foundation Models and Automated Radiological Findings*

1500 3rd year CDT in Applied Photonics students’ oral presentations

Christopher Boland- *There Are No Shortcuts to Anywhere Worth Going: Identifying Shortcuts in Deep Learning*

Shannon Thompson - *The Diagnostic Potential of Bile Composition Analysis in Liver Transplantation*

Iman Alhamdan- *Epsilon Near Zero (ENZ) Metasurfaces for Augmented Reality application*

Mohanad Al-Rubaiee- *Semiconductor Mode-Locked Laser Sources for Ultrastable Optical Clocks and High-Speed Optical Communication*

Jemma Callaghan - *Active Optical Metasurfaces for Solid-State Beam Steering*

1550 Afternoon break

1605 Panel Discussion – 4th year students

1635 3rd year CDT in Applied Photonics students oral presentations (continued)

Patrick Foley- *Demonstration of Coherent Beam Combination*

Aoife Keane- *Hyperspectral Imaging has the potential for non-contact salt concentration estimation*

Femy Francis- *Fibre coupled on-chip CO₂ sensor at 2 um using Slotted Photonic Crystal Waveguide*

Cosmin Suciuc- *Platform Development for Frequency Comb Generation Devices*

Dorian Urban- *Real-time opto-electronic path-length tuning for optical coherence tomography*

1730 Evening Reception & BBQ- Liberty’s Students Union

1930 End of event