

8th SU2P Symposium Programme

James Watt Conference Centre - Heriot Watt University

Day 1 Wednesday April 5th 2017

08.30	Tea/Coffee and registration	(exhibition)
09.30	Welcome Address & Intro	Steve McLaughlin Heriot Watt - Symposium Host
09.45	Energy & Environment Keynote 1	Caroline Nichol – Edinburgh <i>“Multi spectral lidar for forest mapping: current capabilities and technological challenges”</i>
10.15	Keynote 2	Jenny Nelson – Imperial College London <i>“Light harvesting and solar energy conversion in molecular electronic materials”</i>
10.45	Q/A	Facilitator - Malte Gather - St Andrews
11.15	Tea/coffee (exhibition)	
11.45	15 one minute poster presentations	Sponsored by SUPA
12.00	Healthcare & Medicine Keynote 3	Lambertus Hesselink -Stanford <i>“A Novel Differential Phase Contrast X-Ray Imaging System with Applications in Medicine and Aviation Security”</i>
12.30	Keynote 4	Robert Henderson -Edinburgh <i>“CMOS sensors for photonic molecular fingerprinting of disease pathology”</i>
13.00	Q/A	Facilitator - Ian Underwood – Edinburgh tbc
13.30	Lunch & Exhibition	
14.30	15 one minute posters	Sponsored by SUPA
14.45	Student presentation	Clara Vergez - Edinburgh <i>“ Lighting up the cause of heart attacks”</i>
15.00	Student presentation	Tomas Aidukas - Glasgow <i>“Low-cost Gigapixel Microscope for Rapid Blood Tests and Disease Diagnosis”</i>
15.15	Q/A	Facilitator – Alan Miller SUPA
15.30	Tea/Coffee (exhibition)	
16.00	Communications & IT Sponsored by the KTN Keynote 5	Tommaso Calarco - ULM <i>“From Quantum Science to Quantum Technologies”</i>
16.30	Keynote 6	Dieter Jaksch - Oxford <i>“Early Applications of First Generation Quantum Information Devices”</i>
17.00	Q/A	Facilitator - Andrew Daley - Strathclyde
17.30	Poster Session & drinks	
18.30	Coach	Departs for Dalmahoy Hotel and Banquet
19.15	Symposium Banquet Dalmahoy Hotel	- with Keynote Prof Harald Haas of PURE Lifi
22.30	Coach	Coach returns to James Watt Conference Centre

Day 2 Thursday April 6th 2017

08.30	Tea/Coffee (exhibition)	
09.00	Introduction	
09.10	Advanced Manufacturing Sponsored by the KTN Keynote 7	<i>Bill O'Neill – Cambridge</i> <i>“Carbon nanofibres: synthesis, processing and applications.”</i>
09.40	Keynote 8	<i>Chris Sutcliffe - Liverpool</i> <i>“Metal Additive Manufacturing a Future Production Mass Manufacturing Solution?”</i>
10.10	Q/A	Facilitator - Duncan Hand - Heriot Watt
10.40	Tea/Coffee (exhibition)	
		Sponsored by SUPA
11.10	Student presentation	Amiel Lopes – Heriot Watt <i>“Micromachining of Fused silica using picosecond pulses”</i>
11.25	Student presentation	Enrico Carnemolla - Heriot Watt <i>“Hybrid nonlinearities in transparent conducting oxides: Enabling novel functionalities in integrated photonics”</i>
11.40	Student presentation	Matthew Johnson – Glasgow <i>“New Optical Elements for Precision Metrology with Atoms”</i>
11.55	Student presentation	Najwa Sidqi – Heriot Watt <i>“Efficient Single-Photon emitters for quantum information”</i>
12.10	Student presentation	Iman Tavakkolnia - Edinburgh <i>“Nonlinear Fourier Transform – A New Signal Processing Technique for Data Transmission over Optical Fibre”</i>
12.25	Q/A	Facilitator – Alan Miller SUPA
12.45	Lunch & Exhibition	
13.45	Defence & Security Keynote 9	<i>Peter Asenbaum - Stanford</i> <i>“Atoms as a non-local probe for gravity”</i>
14.15	Keynote 10	<i>Mike Holynski - Birmingham</i> <i>“Cold atom gravity gradiometry”</i>
14.45	Q/A	Facilitators - Giles Hammond/Douglas Paul -Glasgow
15.15	Awards and Closing Remarks	Allister Ferguson - Strathclyde
15.30	Close	

