

PH450 Talk Schedule

Wednesday 22/02/2017

	First Name	Surname	Project	Primary	Secondary
JA5.02					
Session Chair: Adrian Cross					
1330	Andrew	Faulds	Space Radiation Reproduction and Testing	Bernhard Hidding	Grace Manahan
1345	Connor	Galbraith	Beam-driven Plasma Wakefield Acceleration (PWFA)	Bernhard Hidding	Dino Jaroszynski
1400	Graham	Pettigrew	Coherent and incoherent combination of laser pulses	Bernhard Hidding	Grace Manahan
1415	Scott John	Barrie	Femtosecond chemistry with laser-plasma-accelerators	Bernhard Hidding	Grace Manahan
1430	Break				

Session Chair: Bernhard Hidding					
1445	Aidan	White	Medical Radioisotope Production using a Laser-Plasma Wakefield Accelerator	Mark Wiggins	Dino Jaroszynski
1500	David	Smyth	Investigation of energy exchange in relativistically transparent laser-plasma interactions	Paul McKenna	Martin King
1515	Euan James	Palmer	Simulations of magnetic turbulence in plasma	Bengt Eliasson	Kevin Ronald
1530	Craig	Stevenson	High-Power Microwave Sources	Phil MacInnes	Kevin Ronald
1545	Break				

Session Chair: Adrian Cross					
1600	Benjamin	McGrogan	Self-phase Modulation of Relativistically intense laser pulses in near critical density plasmas	Ross Gray	Martin King
1615	Gavin	Graham	Intense laser pulse filamentation in near critical density plasmas	Ross Gray	Bruno Gonzalez-Izquierdo
1630	Zhe	Zheng	Compact X-ray sources from nonlinear Thomson scattering with intense lasers	Zhengming Sheng	Feiyu Li

JA5.05					
Session Chair: Rob Martin					
1330	David	Harper	Optical spectroscopy of distant sources	Carol Trager-Cowan	David McKee
1345	Joel	Scheffer	Doping profile measurements in silicon p-n junctions via capacitance-voltage measurements	Carol Trager-Cowan	Paul Edwards
1400	Mike	Gyurik	Energy upconversion in nano-crystallites for application in ultra-high definition display technology	Thomas Han	
1415	Ryan	Thomson	Lanthanide-doped fluoride sub-micron crystalline particles for biomedical applications	Thomas Han	
1430	Break				

Session Chair: Kevin O'Donnell					
1445	Jennifer Lynn	Service	Investigating non-ideal behaviour in current-voltage curves from GaN-based LEDs	Rob Martin	Paul Edwards
1500	Simon	Lawrence	Colour properties and efficiency of white LEDs	Rob Martin	Jochen Bruckbauer
1515	Paul Anthony	Ross	Modelling of X-ray fluorescence spectroscopy	Paul Edwards	Rob Martin
1530					
1545	Break				

Session Chair: Carol Trager-Cowan					
1600	Daniel	Dyer	RE-doped III-nitrides for solid state lighting applications	Kevin O'Donnell	Paul Edwards
1615	Douglas	Cameron	Hysteretic Photochromic Switching (HPS) of europium-magnesium (Eu-Mg) defects in GaN	Kevin O'Donnell	Paul Edwards
1630	Michael	Farnham	Phosphorescence of glowstones™	Kevin O'Donnell	Paul Edwards

JA5.07					
Session Chair: Brian McNeil					
1330	Yu	Zhang	Hairpin DNA-functionalized gold nanorods for mRNA detection in homogenous solution	Yu Chen	
1345	Niamh	Turner	Pathological modifications in proteins detected by their intrinsic fluorescence	Olaf Rolinski	Yu Chen
1400	Jonathon	Massey	Spectroscopic Studies of Melanin Fibrils; Spectra, Kinetics, Modulators	Jens Sutter	David Birch
1415	Kevin Graham	McKechnie	Spectroscopic Studies of Dye Aggregation	Jens Sutter	David Birch
1430	Break				

Session Chair: Gail McConnell					
1445	Callum	Kinnoch	Automated Image Analysis in Single-Molecule Localization Microscopy	Sebastian van de Linde	
1500	Ben	Williams	Parametric difference resonance in lasers	Francesco Papoff	Gordon Robb
1515	Daniel	Gray	Modelling scanning near-field microscopy	Francesco Papoff	Ben Hourahine
1530	David	Loudon	Gravity Gradiometry with Satellite Constellations	Nick Lockerbie	Daniel Oi
1545	Break				

Session Chair: Olaf Rolinski					
1600	Cameron	Smith	In vivo optical imaging of microplastics in marine organisms	Gail McConnell	David McKee
1615	Daniel David	McColl	Quantification and measurement of marine microbial populations using the Mesolens	Gail McConnell	David McKee
1630	Rachel	MacPhee	Super-wide field of view two dimensional cell imaging	Gail McConnell	Lee McCann