

Wednesday 18th December . Lecture Venue 3WN 2.1

Time	Speaker - Affiliation	Title
Session 1 – Chair Saiful Islam		
13:30	Plenary 1 - Tony West, Sheffield RSC John Goodenough Prize Winner	Oxygen in oxides: some unexpected phenomena
14:10	Darren Hodgeman, Liverpool	New 16 layered perovskite with ordered oxygen vacancies, a potential cathode in SOFC
14:25	Dragos Neagu, St Andrews	Tailoring <i>in situ</i> growth of nanoparticles towards applications
14:40	Luke Sperrin, Cambridge	Lowering the operating temperature of SOFCs: Protonic conductors and the role of local structure on understanding ionic conductivity
14:55	Tea	
Session 2 – Chair tbc		
15:25	Plenary 2 Christian Masquelier, Picardie	tbc
16:05	John Clark, Bath	Atomic-Scale Insights into High Voltage Pyrophosphate Materials for Lithium and Sodium Batteries
16:20	Ricardo Grau-Crespo, Reading	Understanding the cathode reaction in Li-air batteries: lithium and oxygen adsorption at the beta-MnO ₂ (110) surface
16:35- 16:50	Jennifer Kennedy, Glasgow	Facile Microwave Synthesis of p-block Carbides
17:00 -	Posters / Exhibition in 1S or AGM	
19:00	Coaches To Hilton Hotel	
20:00	Dinner	

Thursday 19th December

Time	Lecture/person	
Session 3 Chair tbc		
09:00	Invited 1. Robert Palgrave, UCL	Designing Visible Light Photocatalysts
09:30	Invited 2. Chris Knee, University of Technology, Gothenburg	Neutron diffraction study of high pressure phase transitions in multiferroic Bi _{0.9} La _{0.1} FeO ₃
10:00	Invited 3. Emma McCabe, Kent	tbc
10:30	Coffee	
Session 4 Chair tbc		
11:00	Plenary 3 Graeme Watson Dublin	Multiscale Modelling of Doped Ceria as an Ionic Conductor in Solid Oxide Fuel Cells.
11:40	Adam Archer Bristol	Radiation Damage in Ceramic Waste Forms
11:55	Annabelle Baker, Birmingham	Low Temperature Synthesis of Vanadium Doped Titanium Pyrophosphate with Unusual Mono-dispersed Spherical Morphology

12:10	Panagiola Pelekanaki UCL	Aerobic oxidation of hydrocarbons catalysed by Mn-doped nanoporous aluminophosphate catalysts - A DFT study using hybrid and GGA functionals.
12:25	R A Downie, Heriot Watt	Controlling the thermoelectric properties by interstitial doping in TiNiSn
12:40	Paul Saines, Oxford	Coupling of the Local Defect and Magnetic Structure of Wüstite, $Fe_{1-x}O$
12:55	Finish/prizes	
13:00	End	