

# ISIS Crystallography User Group Meeting

## PCG/SCMP Winter Meeting 2013

### “New Developments in UK Materials Crystallography”

The ISIS crystallography user group meeting is held at Cosener's House, Abingdon in conjunction with the winter meeting of the Physical Crystallography Group of the British Crystallographic Association and the Structural Condensed Matter Physics Group of the Institute of Physics.

#### Monday 11<sup>th</sup> November 2013

12:15 – 13:00	<i>Buffet Lunch</i>
13:00	ISIS Crystallography User Group Chair's Welcome <i>Anthony Powell (University of Reading)</i>
13:10 – 13:40	ISIS Facility Update <i>Robert McGreevy (ISIS)</i>
13:40 – 14:00	ISIS Crystallography Update <i>Steve Hull (ISIS)</i>
14:00 – 14:15	Advances in high pressure diffraction techniques at the ISIS facility <i>Craig Bull (ISIS)</i>
14:15 – 14:30	The first 18 months of new Polaris <i>Ron Smith (ISIS)</i>
14:30 – 14:50	Discussion
14:50 – 15:30	Ultra-fast microwave processing of nanoceramics: sub-minute synthesis of refractory carbides <i>Duncan Gregory (University of Glasgow)</i>
15:30 – 16:00	<i>Tea</i>
16:00 – 16:15	Crystallochemical Modification of Apatite for Solid Oxide Fuel Cell Electrolyte <i>Steven Pramana (Imperial College)</i>
16:15 – 16:30	Amorphous Metal-Organic Frameworks: Synthesis, Structure, Properties and Application <i>Thomas Bennett (University of Cambridge)</i>
16:30 – 16:45	New Metastable Mixed-Metal Ruthenium Oxides from Hydrothermal Synthesis and Their Magnetic Properties <i>Craig Hiley (University of Warwick)</i>
16:45 – 17:25	Unusual structural behaviour in multiferroic perovskites <i>Phil Lightfoot (University of St. Andrews)</i>
18:00 – 19:30	<i>Posters followed by Dinner</i>

## Tuesday 12<sup>th</sup> November 2012

9:10 – 9:45	Time resolved structural science <i>Jeppe Christensen (University of Bath)</i>
9:45 – 10:00	Diffuse scattering from disordered multi-vacancy clusters in sodium cobaltate <i>Dan Porter (Royal Holloway, University of London)</i>
10:00 – 10:15	Phase Selection during the Crystallization of Metal-Organic Frameworks; Thermodynamic and Kinetic Factors in the Lithium Tartrate System <i>Hamish Yeung (University of Cambridge)</i>
10:15 – 10:30	Explosives at Extreme Conditions: Polymorphism of 2,4-Dinitroanisole <i>Paul Coster (University of Edinburgh)</i>
10:30 – 10:45	Proton Order-Disorder Transition in a Polar One-Dimensional Confined Ice <i>Jasper Adamson (University of Oxford)</i>
10:45 – 11:15	<i>Coffee</i>
11:15 – 11:50	2013 PANalytical Thesis Prize Talk: How much can we learn about a multiferroic mechanism in a material from its crystal structure(s)? <i>Mark Senn (Diamond Light Source)</i>
11:50 – 12:25	Superlattices in superalloys <i>Howard Stone (University of Cambridge)</i>
12:25 – 13:00	Local structure investigations of (nano)materials for energy applications <i>Serena Corr (University of Glasgow)</i>
13:00	<i>Close and Buffet Lunch</i>