

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 11th November 2013

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

Tuesday 12th November 2012

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