

ISIS Crystallography User Group Meeting

PCG/SCMP Winter Meeting 2012

“The Crystallography of Functional Materials”

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.

Thursday 8th November 2012

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| 12:15 – 13:00 | <i>Buffet Lunch</i> |
| 13:00 | ISIS Crystallography User Group Chair's Welcome
<i>Anthony Powell (Heriot-Watt)</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 | Neutron Imaging and Materials Science on IMAT
<i>Winfried Kockelmann (ISIS)</i> |
| 14:15 – 14:30 | Recent highlights from SXD
<i>Matthias Guttman (ISIS)</i> |
| 14:30 – 14:50 | Discussion |
| 14:50 – 15:30 | Structural studies of new ionic conducting electrolyte materials
<i>Peter Slater (Birmingham)</i> |
| 15:30 – 16:00 | <i>Tea (PCG-SCMP EGM)</i> |
| 16:00 – 16:40 | Mind the Gaps - a Total Scattering Approach to Understanding Vacancy Ordering in Solid Electrolytes
<i>Isaac Abrahams (QMUL)</i> |
| 16:40 – 17:20 | More than one twist: materials and mechanisms of multiferroicity
<i>Paolo Radaelli (Oxford)</i> |
| 18:00 – 19:30 | <i>Posters followed by Dinner</i> |

Friday 9th November 2012

- 9:10 – 9:45 Multiphase behaviour and kinetic constraints in half-Heusler thermoelectrics
Jan-Willem Bos (Heriot-Watt)
- 9:45 – 10:00 Crystallographic and Magnetic structure of 6H-BaFeO₂F
Oliver Clemens (Birmingham)
- 10:00 – 10:15 Structural characterisation and physical properties of a new transition metal oxyselenide
Andrew Tuxworth (Durham)
- 10:15 – 10:30 Anomalous Physical Properties of Flexible Network Structures
Leila Rimmer (Cambridge)
- 10:30 – 10:45 Large negative linear compressibility in cyanide framework materials
Andrew Cairns (Oxford)
- 10:45 – 11:15 *Coffee*
- 11:15 – 11:50 A new theoretical mechanism to lift orbital degeneracy probed by resonant X-ray scattering
Lucian Pascut (PANalytical Thesis prize winner)
- 11:50 – 12:25 Powder neutron diffraction studies of BiFeO₃ and Dy doped BiFeO₃ ceramics
Donna Arnold (Kent)
- 12:25 – 13:00 The Devil is in the Detail: Examples from Materials for Solid Oxide Fuel Cells
John Claridge (Liverpool)
- 13:00 *Close and Buffet Lunch*