

ISIS Crystallography User Group Meeting

PCG/SCMP Winter Meeting

“Current Research in Physical 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 Crystallographical Association and the Structural Condensed Matter Physics Group of the Institute of Physics.

Programme

Monday 15th November 2010

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| 12:15 – 13:00 | <i>Buffet Lunch</i> |
| 13:00 | ISIS Crystallography User Group Chairman's Welcome
<i>Phil Lightfoot (St Andrews)</i> |
| 13:10 – 13:40 | ISIS Facility Update
<i>Uschi Steigenberger (ISIS)</i> |
| 13:40 – 13:50 | ISIS User Interface
<i>Philip King (ISIS)</i> |
| 13:50 – 14:20 | ISIS Crystallography Update
<i>Laurent Chapon (ISIS)</i> |
| 14:20 – 15:00 | Discussion |
| 15:00 – 15:40 | Breaking Inversion Symmetry with Cation Order – New Route to Multiferroic Materials?
<i>Mike Hayward (Oxford)</i> |
| 15:40 – 16:10 | <i>Tea</i> |
| 16:10 – 16:55 | <i>A series of short contributed talks by young researchers</i>

Structural Characterisation and Physical Properties of New Transition Metal Oxyselenides
<i>Emma McCabe (Durham)</i>
The High Temperature Phase Transitions of YMnO ₃
<i>Alex Gibbs (St Andrews)</i>
High-Resolution Neutron Diffraction Study of Bi _{1-x} Ln _x Fe _{1-y} Mn _y O _{3-d} Multiferroics
<i>Chris Knee (Gothenburg)</i> |
| 16:55 – 17:35 | The Curious Crystallography of Na _{0.5} Bi _{0.5} TiO ₃ (NBT) and Related Compounds
<i>Pam Thomas (Warwick)</i> |
| 18:00 – 19:30 | <i>Posters followed by Dinner</i> |

Tuesday 16th November 2010

- 9:00 – 9:35 Frustrating Metals – a Route to Spintronics
Andrew Wills (UCL)
- 9:35 – 10:10 Pair Distribution Function Studies of Materials at High Pressure – Opportunities and Pitfalls
Joe Hriljac (Birmingham)
- 10:10 – 10:45 The High-Pressure Behaviour of Methane, Part of the New Mineralogy of the Outer Solar System
Helen Maynard-Casely (RI)
- 10:45 – 11:30 *Coffee*
- 11:30 – 12:05 Examining Lithium Ion Mobility in Crystalline Solids
Eddie Cussen (Strathclyde)
- 12:05 – 12:40 Time-Resolved Structural Studies of Flexible MOFs
Richard Walton (Warwick)
- 12:40 – 13:15 Spin Ice - Magnetism, Monopoles and Crystallography
Steve Bramwell (UCL)
- 13:15 *Close and Buffet Lunch*