

ISIS Crystallography User Group Meeting

PCG/SCMP Winter Meeting

“New Results from New Facilities”

The ISIS crystallography user group meeting is being held 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. The meeting is themed “New Results from New Facilities”.

The meeting is at the Cosener’s House, Abingdon, 5-6th November 2009.

Thursday 5th November

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| 12:15 – 13:00 | <i>Buffet Lunch</i> |
| 13:00 | Chairman’s Welcome
<i>Phil Lightfoot (St Andrews)</i> |
| 13:10 – 13:40 | ISIS Facility Update
ISIS performance
TS2
Funding and future running
ISIS experimental risk assessments
<i>Zoe Bowden (ISIS)</i> |
| 13:40 – 14:10 | Crystallography Update
Instrumentation (WISH, Polaris, Pearl)
TS2 phase 2 (LMX, IMAT)
Software update – Mantid
Staff update
<i>Laurent Chapon (ISIS)</i> |
| 14:10 – 15:00 | Discussion |
| 15:00 – 15:40 | “Controlling the structures and properties of layered chalcogenides and pnictides”
<i>Simon Clarke (Oxford)</i> |
| 15:40 – 16:10 | <i>Tea</i> |
| 16:10 – 16:25 | “A multidisciplinary approach to the structural characterisation of NaNbO_3 ”
<i>Karen Johnston (St Andrews)</i> |
| 16:25 – 16:40 | “Superstructures in doped cobaltates”
<i>Dan Porter (Royal Holloway)</i> |

- 16:40 – 16:55 “Neutron diffraction of hydrogen containing compounds in controlled humidities”
Valeska Ting (Southampton)
- 16:55 – 17:35 “Diffraction studies of hydrogen storage materials”
Martin Jones (Oxford)
- 18:00 – 19:30 *Posters followed by Dinner*

Friday 6th November

- 9:00 – 9:10 Introduction from the BCA President
Elsbeth Garman (Oxford)
- 9:10 – 9:45 “Big squeeze, recent developments in high-pressure single crystal diffraction on I19 at Diamond”
Stephen Moggach (Edinburgh)
- 9:45 – 10:20 “Photocrystallography – from static to dynamic”
Paul Raithby (Bath)
- 10:20 – 10:55 “Practical lessons from energy landscapes in organic crystals” (PCG PANalytical thesis prize winner)
Aurora Cruz-Cabeza (Cambridge)
- 10:55 – 11:30 *Coffee*
- 11:30 – 12:05 “Charge order in the triangular metallic antiferromagnet AgNiO₂ probed by single crystal resonant X-ray scattering using I16 at Diamond”
Lucian Pascut (Bristol)
- 12:05 – 12:40 “First results from WISH: a case study with a new iron pnictide”
Pascal Manuel (ISIS)
- 12:40 – 13:15 “Magnetoelastic coupling in the frustrated antiferromagnetic triangular lattice CuMnO₂”
Carlo Vecchini (ISIS)
- 13:15 *Close and Buffet Lunch*