

# 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, 5-6<sup>th</sup> November 2009.

#### Thursday 5<sup>th</sup> November

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| 12:15 – 13:00 | <i>Buffet Lunch</i>   |
| 13:00         | Chairman’s Welcome<br><i>Phil Lightfoot (St Andrews)</i>  |
| 13:10 – 13:40 | ISIS Facility Update<br>ISIS performance<br>TS2<br>Funding and future running<br>TS1 upgrade<br>ESS<br><i>Zoe Bowden (ISIS)</i>   |
| 13:40 – 14:10 | Crystallography Update<br>Instrumentation (WISH, Polaris, Pearl)<br>TS2 Phase 2 (LMX, IMAT)<br>Software Update – Mantid<br>Staff Update<br><i>Laurent Chapon (ISIS)</i> |
| 14:10 – 15:00 | Discussion  |
| 15:00 – 15:40 | “Controlling the structures and properties of layered chalcogenides and pnictides”<br><i>Simon Clarke (Oxford)</i>  |
| 15:40 – 16:10 | <i>Tea</i>  |
| 16:10 – 16:25 | “A multidisciplinary approach to the structural characterisation of $\text{NaNbO}_3$ ”<br><i>Karen Johnston (St Andrews)</i>  |
| 16:25 – 16:40 | “Superstructures in doped cobaltates”<br><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 6<sup>th</sup> November**

- 9:00 – 9:10 Introduction from the BCA President  
*Elspeth 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 AgNiO<sub>2</sub> 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 CuMnO<sub>2</sub>”  
*Carlo Vecchini (ISIS)*
- 13:15 *Close and Buffet Lunch*