ISIS Crystallography User Group Meeting

PCG/SCMP Winter Meeting

"Current Research in Physical Crystallography"

The ISIS crystallography user group meeting will be 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 "Current research in physical crystallography".

The meeting will be at the Cosener's House, Abingdon, 15-16th November 2010.

Provisional Programme

Monday 15th November

12:15 – 13:00	*Buffet Lunch*
13:00	Chairman's Welcome *Phil Lightfoot (St Andrews)*
13:10 – 13:40	ISIS Facility Update *Uschi Steigenberger (ISIS)*
13:40 – 13:50	ISIS User Interface *Philip King (ISIS)*
13:50 – 14:20	ISIS Crystallography Update *Laurent Chapon (ISIS)*
14:20 – 15:00	Discussion
15:00 – 15:40	Breaking Inversion Symmetry with Cation Order – New Route to Multiferroic Materials? *Mike Hayward (Oxford)*
15:40 – 16:10	*Tea*
16:10 – 16:55	*A series of short contributed talks by young researchers*
	Structural Characterisation and Physical Properties of New Transition Metal Oxyselenides *Emma McCabe (Durham)*

	The High Temperature Phase Transitions of $YMnO_3$ *Alex Gibbs (St Andrews)* High-Resolution Neutron Diffraction Study of $Bi_{1-x}Ln_xFe_{1-y}Mn_yO_{3-d}$ Multiferroics *Chris Knee (Gothenburg)*
16:55 – 17:35	The Curious Crystallography of $Na_{0.5}Bi_{0.5}TiO_3$ (NBT) and Related Compounds *Pam Thomas (Warwick)*
18:00 – 19:30	*Posters followed by Dinner*

Tuesday 16th November

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 - Magnetricity, Monopoles and Crystallography *Steve Bramwell (UCL)*
13:15	*Close and Buffet Lunch*