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 Crystallographical Association and the Structural Condensed Matter Physics Group of the Institute of Physics.

Thursday 8th November 2012

12:15 – 13:00	Buffet Lunch
13:00	ISIS Crystallography User Group Chair's Welcome Anthony Powell (Heriot-Watt)
13:10 – 13:40	ISIS Facility Update Robert McGreevy (ISIS)
13:40 – 14:00	ISIS Crystallography Update Steve Hull (ISIS)
14:00 – 14:15	Neutron Imaging and Materials Science on IMAT Winfried Kockelmann (ISIS)
14:15 – 14:30	Recent highlights from SXD Matthias Guttman (ISIS)
14:30 – 14:50	Discussion
14:50 – 15:30	Structural studies of new ionic conducting electrolyte materials Peter Slater (Birmingham)
15:30 – 16:00	Tea (PCG-SCMP EGM)
16:00 – 16:40	Mind the Gaps - a Total Scattering Approach to Understanding Vacancy Ordering in Solid Electrolytes Isaac Abrahmas (QMUL)
16:40 – 17:20	TBA Paolo Radaelli (Oxford)
18:00 – 19:30	Posters followed by Dinner

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