



XMaS@20

ESRF, The European Synchrotron, 20-21st September 2017

ESRF Auditorium

Programme, Wednesday 20th September 2017

09:00	Welcoming remarks	Malcolm Cooper University of Warwick
09:10	Opening address	Francesco Sette Director General, ESRF
09:20	XMaS, an EPSRC Mid-Range Facility	Simon Crook EPSRC, UK
09:40	XMaS: The birth of a beamline	Malcolm Cooper & William Stirling University of Warwick, UK & Institut Laue Langevin, France
10:00	XMaS: The UK National Facility for Materials Science at the ESRF	Tom Hase & Chris Lucas Universities of Warwick & Liverpool, UK
10:20	Coffee Break & Tours of the XMaS Beamline	
11:00	5f electrons at XMaS: successes, puzzles and failures	Gerry Lander ITU, Kalsruhe, Germany & Institut Laue Langevin, France
11:20	Some unusual experiments in x-ray diffraction physics	Steve Collins Diamond Light Source, UK
11:40	Structure and collapse of polymer brushes with tuneable thermo-responsiveness	Wuge Briscoe University of Bristol, UK
12:00	Fabricating and measuring perovskite solar cells <i>in-situ</i> during GI-WAXS Measurements	Mejd Alsari University of Cambridge, UK
12:20	X-ray resonant magnetic reflectivity for spin caloritronics	Timo Kuschel Bielefeld University, Germany
12:40	Lunch at the ESRF canteen	
13:40	Piezoelectric materials characterisation through <i>in-situ</i> x-ray diffraction on XMaS	Markys Cain Electrosiences Ltd, UK
14:00	Retrospective on XMaS/APS collaborations	Jonathan Lang Argonne National Laboratory, USA
14:20	EuTiO ₃ : the ideal experiment for XMaS	Phil Ryan Argonne National Laboratory, USA
14:40	XMaS Scientist Experience - Outreach programme	Kayleigh Lampard University of Warwick, UK
15:00	Coffee Break & Tours of the XMaS Beamline	
15:40	Early days on XMaS: resonant magnetic scattering; Recent work: charge density waves	Ted Forgan University of Birmingham, UK
16:00	Structure-function relationships in catalytic materials through XAS technique	Sankar Gopinathan University College London, UK
16:20	Additives to control the polysulphide shuttle in Li-S batteries	Maria Alfredsson University of Kent, UK
16:40	Interfaces in spintronic materials: from the early days at XMaS	Brian Tanner University of Durham, UK
17:00	End of the talks	
19:30	Dinner at the restaurant Le Fantin Latour, Grenoble	



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09:20	Building experiments for XMaS - cells, spectroscopes and software	Mark Dowsett University of Warwick, UK
09:40	Understanding Ce and Cl speciation in vitreous materials designed for the immobilisation of UK Pu residues	Amber Mason University of Sheffield, UK
10:00	Energy dispersive white beam diffraction: Translating photon energy into the 3 rd dimension for one-shot texture analysis	Tilman Grünewald ESRF, France
10:20 Coffee Break & Tours of the XMaS Beamline		
11:00	Grazing incidence diffraction studies of thin film photovoltaics	Emyr Macdonald University of Cardiff, UK
11:20	Strongly correlated electron systems - How XMaS changed our understanding	Peter Hatton University of Durham, UK
11:40	Phase transitions of triblock copolymers	Gemma Newby Xenocs, France
12:00	Determination of the sign of the Dzyaloshinskii-Moriya interaction in a series of weak ferromagnets by magnetic diffraction	Guillaume Beutier Grenoble Alpes University, CNRS, France
12:20	Synchrotron x-ray diffraction in air and vacuum: Strain and structure at the nano-scale	Gavin Bell University of Warwick, UK
12:40 Lunch at the ESRF canteen		
13:40	Structural and proximity induced magnetism studies of ferromagnetic/non-magnetic thin-film systems	Del Aktinson University of Durham, UK
14:00	Grazing incidence x-ray diffraction of molecular thin films for organic electronics	Josue Martinez Hardigree University of Oxford, UK
14:20	Chemical insights from a tender XMaS: spectroscopy in the sub 4 keV regime	Mark Newton ETH Zurich, Switzerland
14:40	Closing of XMaS@20	
15:00 End of meeting		



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