

British Crystallography Association - Biological Structures Group Winter Meeting 2014

Draft Programme

Monday 15th December 2014 ILL Chadwick Auditorium		
Research Infrastructures: State-of-the-Art and Impact for Structural Biology. Chair:		
12:00 - 14:00	Lunch at the ESRF/ILL restaurant	
14:00 - 14:20	Registration for Meeting	
14:20 - 14:50	What ESRF offers UK Life Sciences	Harald Reichert ESRF Director of Research
14:50 - 15:15	What ILL offers UK Life Sciences	Helmut Schober ILL Director of Science
15:15 - 15:40	Coffee break	
15:40 - 16:10	Opportunities for structural biology with XFELs	Adrian Mancuso European XFEL, Hamburg, Germany
15:40 - 16:10	Synchrotrons and drug discovery	Pamela Williams Astex, UK
16:40 - 17:10	Using neutrons to probe intrinsically disordered proteins binding to single and double stranded DNA.	David Scott University of Nottingham, UK
Venue: ESRF ILL Experimental Facilities		
17:10 - 18:30	Guided visit to ESRF, ILL and PSB Experimental Facilities	
19:30	Cheese and Wine at the EPN Restaurant	

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Future Opportunities for UK Structural Biology in Grenoble. Chair:

08:45 - 09:05	The Partnership for Structural Biology	Florent Bernaudat ESRF/ILL, Grenoble
09:05 - 09:20	ESRF Facilities for Biology in 2020 and beyond	Gordon Leonard ESRF, Grenoble
09:20 - 09:35	ILL Facilities for Biology in 2020 and beyond	Trevor Forsyth ILL, Grenoble
09:35 - 09:55	Strategic Significance of UK participation in Large Scale Infrastructure.	Andrew Harrison Diamond Light Source, UK
09:55 - 10:10	Strategic Significance of UK participation in Large Scale Infrastructure.	Colin Miles BBSRC, UK
10:00 - 10:30	Round Table discussion	Andrew Harrison, Colin Miles (BBSRC, UK), Simon Phillips* (Research Complex at Harwell, UK), Harald Reichert, Gordon Leonard, Trevor Forsyth

10:30 - 10:50 **Coffee break**

Session: Combining X-rays & Neutrons in Structural Biology. Chair:

10:50 - 11:15	A new route to time-resolved experiments: applying the Hadamard Transform to crystallography.	Arwen Pearson CUI, Hamburg, Germany
11:15 - 11:40	Neutron cryo-crystallography captures the protonation state of ferryl heme in a peroxidase.	Cecilia Casadei ILL/University of Leicester, UK
11:40 - 12:05	Orchestrating DNA Transposition	Julia Richardson University of Edinburgh, UK
12:05 - 12:30	Stealth nanodiscs for membrane protein structure in solution using neutron and X-ray scattering	Selma Maric Karolinska Institute, Sweden

12:30 - 14:00 **Lunch at the ESRF/ILL restaurant**

Structural Biology on the EPN Campus. Chair:

14:00 - 14:25	Structural insights into cap-snatching by influenza polymerase.	Stephen Cusack EMBL, Grenoble
14:25 - 14:50	Structure of a bacterial alpha 2-macroglobulin reveals mimicry of eukaryotic innate immunity	Andrea Dessen IBS, Grenoble
14:50 - 15:15	Title to be Confirmed	Catarina da Silva CEA, Grenoble

15:15 - 15:40 **Coffee break**

15:50 - 16:15	Poster Clips (c. 2 mins each)	Students and anyone else who wants to do a clip....
16:15 - 18:00	Poster Session	

19:30 - 22:30 **Dinner in Grenoble with poster prize awards**

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Session: Emerging Techniques in Structural Biology - I
Chair:

08:45 - 09:10	Optical spectroscopies and X-ray crystallography: seeing the (in)visible	Antoine Royant IBS, Grenoble
09:10 - 09:35	Protein Study Capabilities on ID09b; The Time Resolved X-Ray Scattering Beamline.	Gemma Newby ESRF, Grenoble
09:35 - 10:00	Cryo Soft X-ray Microscopy: New Opportunities for Structural Biology?	Elizabeth Duke Diamond Light Source, UK
10:00 - 10:25	Serial Crystallography at ESRF	Manfred Burghammer ESRF, Grenoble

10:25 - 10:45 **Coffee break**

Session: Emerging Techniques in Structural Biology - I. Chair:

10:45 - 11:10	MASSIF1: the dawn of fully automated Macromolecular Crystallography.	Matthew Bowler EMBL, Grenoble
11:10 - 11:35	Multi crystal data collection - a new synchrotron serial crystallography method.	Ulrich Zander ESRF, Grenoble
11:35 - 12:00	High and ultra-high resolution crystallographic studies of small proteins using ILL's D19 diffractometer.	Estelle Mossou University of Keele, UK/ILL, Grenoble

12:00 - 14:00 **Lunch at the ESRF/ILL restaurant; End of Meeting**