

# 4<sup>th</sup> Winter School on Soft X-rays in Macromolecular Crystallography

6 - 8 February 2012

## Programme

Monday, 6 <sup>th</sup> February – CIBB Seminar Room 214		
08:00 – 08:40	Registration in the <b>ESRF Central Building Entrance Hall</b>	
08:40 – 08:45	<b>Welcome by S. Mc Sweeney</b> , ESRF Group Leader in the CIBB Seminar Room	
<b>Session I: General Introduction to the Use of Softer X-rays in MX – Chair: K. Djinovic-Carugo</b>		
08:45 – 09:45	<b>A General Introduction to the Use of Softer X-rays in MX</b>	<b>B.C. Wang</b> University of Georgia, USA
09:45 – 10:30	<b>Why are Longer Wavelengths Useful in Macromolecular Crystallography?</b>	<b>Gordon Leonard</b> ESRF Grenoble, France
10:30 – 11:00	Coffee Break in the Cafeteria – CIBB 1 <sup>st</sup> floor	
11:00 – 12:00	<b>On the Use of Long Wavelengths in Macromolecular Crystallography</b>	<b>Manfred S. Weiss</b> Helmholtz-Zentrum Berlin, Germany
12:15 – 13:30	Lunch in the common Restaurant on site	
<b>Session II: Data Collection and Radiation Damage - Chair: C. Mueller-Dieckmann</b>		
13:30 – 14:10	<b>Radiation Damage at Longer Wavelengths in Macromolecular Crystallography</b>	<b>Kristina Djinovic-Carugo</b> Vienna Biocenter, Austria
14:10 – 14:50	<b>Optimised Data Collection Strategies</b>	<b>Alexander Popov</b> ESRF, Grenoble, France
14:50 – 15:10	<b>The Application of Hierarchical Cluster Analysis to the Ranking of Macromolecular Crystals</b>	<b>Rita Giordano</b> ESRF, Grenoble, France
15:10 – 15:30	Coffee Break in the Cafeteria - CIBB 1 <sup>st</sup> floor	
<b>Session III: Beam Lines for long Wavelength Data Collection – Chair: M. Weiss</b>		
15:30 – 16:00	<b>EMBL MX1 Beamline for Macromolecular Crystallography at PETRA III @ DESY, Hamburg, Germany</b>	<b>Michele Cianci</b> EMBL Hamburg, Germany
16:00 – 16:30	<b>The Long-wavelength Macromolecular Crystallography Beamline at Diamond Light Source</b>	<b>Armin Wagner</b> Diamond Light Source, UK
16:30 – 17:00	<b>Longer Wavelength Setups at the ESRF</b>	<b>Daniele de Sanctis</b> ESRF, Grenoble, France
17:00 – 17:45	<b>Soft X-rays in the Home Lab: Native SAD Phasing with Chromium and Copper Radiation</b>	<b>James Pflugrath</b> Rigaku, The Woodlands, USA
18:15 – 21:00	Long Wavelength Workshop Poster Session & Dinner Buffet in the Marquee (ESRF)	

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Tuesday, 7<sup>th</sup> February

<i>Users' Meeting</i>	
09:00 - 12:30	<b>ESRF Users' Meeting Plenary Session I</b> – ESRF Auditorium
12:30 – 13:30	<i>Lunch in the common Restaurant on site</i>
14:00 – 15:50	<b>Structural Biology Parallel Session I</b> – CIBB Seminar Room 214
16:00 – 16:20	<i>Coffee Break in the Marquee</i>
16:20 – 18:00	<b>Structural Biology Parallel Session II</b> – CIBB Seminar Room 214
18:30 – 19:50	<i>Joint Users' Meeting and Workshops Poster Session &amp; Cocktail in the Marquee</i>
20:00	<i>Users' Meeting Dinner in the common Restaurant</i>

Wednesday, 8<sup>th</sup> February

<i>Users' Meeting – ESRF Auditorium</i>	
09:00 – 12:00	<b>ESRF Users' Meeting Plenary Session II</b>
12:00 – 13:30	<i>Lunch in the common Restaurant on site</i>

<i>MX Winter school – CIBB Seminar Room 214</i>		
<i>Session IV: Structure Solution using Longer Wavelength Anomalous Signals – Chair: G. Leonard</i>		
14:00 – 14:45	<b>The Evaluation of Sulfur's Anomalous Signals in Diffraction Data</b>	<b>Zhi-Jie LIU</b> Institute of Biophysics, Beijing, China
14:45 – 15:15	<b>Substructure Determination Using SHELX</b>	<b>Isabel Usón</b> IBMB-CSIC, Barcelona, Spain
15:15 – 15:45	<b>Sequence, Structure &amp; Soft S-SAD</b>	<b>Patrik Johansson</b> AstraZeneca Structural Chemistry Laboratory, Mölndal, Sweden
15:45 – 16:15	<i>Coffee Break in the Cafeteria - CIBB 1<sup>st</sup> floor</i>	
16:15 – 16:45	<b>Get more Information from your Structure: Careful Determination of the Substructure</b>	<b>Christoph Mueller-Dieckmann</b> ESRF, Grenoble, France
16:45 – 17:15	<b>Long-Wavelength Phasing at the Swiss Light Source</b>	<b>Meitian Wang</b> Swiss Light Source, Villigen, Switzerland
17:15 – 17:30	<b>Closing Remarks</b>	