

Macromolecular Crystallography Workshop
Thursday, June 17, 2010 (Full day workshop)

Description: The workshop is meant to be an overview of trends in macromolecular crystallography beamlines' usage, data processing, structure solution, refinement and validation. It also includes scientific presentation highlighting data obtained from the CMCF beamlines. It is complemented by talks on the synergy between macromolecular crystallography, SAXS and EXAFS.

Organized by: Pawel Grochulski, Canadian Light Source

Location: Gallery C, TCU Place, Downtown Saskatoon

Time	Speaker/Affiliation	Title
8:00	<i>Registration</i>	
9:00	Wladek Minor, University of Virginia	HKL-3000 Toward the Future of Structural Biology
9:45	Raj Rajashankar, APS	Collecting Two-Wavelength MAD data Without Changing Energy
10:30	<i>Coffee break</i>	
10:45	Randy Read, University of Cambridge	Making better use of SAD data in Phaser
11:30	Paul Adams, ALS	Automated Structure Solution and Refinement with Phenix
12:15	<i>Lunch Break (lunch provided)</i>	
1:15	Nick Furnham, EBI Cambridge	Restraint-based Protein Structure Modeling and Model Validation
2:00	Mark Glover, University of Alberta	Structural Basis of Plasmid Specificity in the Conjugative Transfer of F Plasmids
2:45	David Sanders, University of Saskatchewan	Structural Studies of UDP-Galactopyranose mutase - Control of Substrate Binding by Phosphate/Arginine Interactions
3:30	<i>Coffee break</i>	
3:45	Graham George, University of Saskatchewan	Contributions of X-ray Absorption Spectroscopy and Density Functional Theory – a Holistic Approach to Metalloprotein Structure
4:30	Brian Shilton, University of Western Ontario	SAXS from Macromolecules: Theory and Applications for Structural Biology
5:15	<i>Adjourned</i>	

Direct Program Related Inquiries to: Pawel Grochulski, pawel.grochulski@lightsource.ca