



## Frontiers in Bio-Metals: Probing Metal Ions in Biology with X-ray Absorption Spectroscopy

Royal University Hospital, Mall Lecture Theatre  
University of Saskatchewan, Saskatoon, Saskatchewan, Canada

May 11, 2005

Time	Speaker	Details
7:30	—	Registration and refreshments
8:30	Ingrid Pickering (Workshop Chair)	Opening remarks and acknowledgements
8:35	Steven Franklin (VP Research)	Welcome on behalf of University of Saskatchewan
Chair: Helen Nichol ( <i>U. Saskatchewan</i> )		
8:40	Graham N. George ( <i>U. Saskatchewan</i> )	Introduction to Studies of Metals in Intact Tissues using X-ray Absorption Spectroscopy
9:25	Ingrid J. Pickering ( <i>U. Saskatchewan</i> )	XAS Imaging – Localization of Chemical Species <i>in vivo</i>
10:10	—	Break and posters
Chair: Farideh Jalilehvand ( <i>U. Calgary</i> )		
10:25	James E. Penner-Hahn ( <i>U. Michigan</i> )	Characterization of "Spectroscopically Challenged" Metals: Zinc in Biological Systems
11:10	Britt Hedman ( <i>Stanford Synchrotron Radiation Laboratory</i> )	X-ray Absorption Spectroscopy of Biological Molecules in Single Crystals
11:55	—	Lunch and posters
Chair: Ingrid Pickering ( <i>U. Saskatchewan</i> )		
12:55	Robert A. Scott ( <i>U. Georgia</i> )	High-throughput X-ray Absorption Spectroscopy for Metalloproteomics
1:40	Peter A. Lay ( <i>U. Sydney</i> )	Biomedical Applications of X-ray Microscopy and X-ray Absorption Spectroscopy
2:25	—	Break and posters
Chair: Martin Stillman ( <i>U. Western Ontario</i> )		
2:40	Ninian J. Blackburn ( <i>Oregon Graduate Institute</i> )	X-ray Absorption Spectroscopy as a Probe of Active Site Structure in Copper Enzymes and Copper Chaperones
3:25	Graham N. George and Ingrid J. Pickering	Overview of Proposed New Beamline Facility for Canadian Light Source
3:50	—	Break and posters
Chair and Moderator: Graham George ( <i>U. Saskatchewan</i> )		
4:00	Helen Nichol ( <i>U. Saskatchewan</i> )	Presentation of Feasibility Questions
5:00	Participants	Round-table discussion and future directions
6:00	—	Adjourn; optional dinner at Faculty Club

