



## CLS Teachers' Workshop 2011

Saturday, October 15, 2011		
Time	Topic	Presenter
<b>8:30 AM</b>	Doors open - welcome!!	
<b>9:00 - 9:15 AM</b>	Welcome & Workshop Overview	Tracy Walker, Educational Outreach Coordinator
<b>9:15 - 10:15 AM</b>	Synchrotron 101	Tracy
<b>10:15 - 10:30 AM</b>	Break	
<b>10:30 AM - 12:00 PM</b>	Experimental Facility Tour	Dr. Robert Blyth, Assistant Director of Research
<b>12:00 - 1:00 PM</b>	Lunch	
<b>1:00 - 2:00 PM</b>	Synchrotron Techniques - what happens when light interacts with matter?	Dr. Julie Thompson, Industrial Scientist
<b>2:00 - 3:00 PM</b>	Medical Isotope Project	Dr. Mark de Jong, Director of Accelerators
<b>3:00 - 3:15 PM</b>	Break	
<b>3:15 - 4:30 PM</b>	<b>Practical Sessions (please choose one):</b>	
	Safety Systems: Protecting people & parts Join members of the Health & Safety Department to explore the safety program throughout CLS designed to protect us from hazards related to industrial, machine, & materials.	Jamie van Cleemput, Biological Safety Coordinator; Grant Cubbon, Radiological Safety Coordinator
	Accelerating & guiding electrons to generate synchrotron light: A talk designed to explain it all.	Grant Bilbrough, Accelerator Physicist
<b>6:00 - 8:00 PM</b>		Ice-breaker Supper - Finn's Irish Pub 924 Spadina Crescent East, Saskatoon (Attached to the Park Town Hotel) <a href="http://www.360saskatoon.com/FoodandBeverage/FinnsIrishPub.html">http://www.360saskatoon.com/FoodandBeverage/FinnsIrishPub.html</a>

## **CLS Teachers' Workshop 2011**

Sunday, October 16, 2011		
Time	Topic	Presenter
<b>8:15 AM</b>	<b>Doors open for a quick breakfast</b>	
<b>8:30 - 10:45 AM</b>	<b>Practical Sessions: Experiments on the beamlines please choose one</b>	
	Absorption experiments in soft x-rays	Dr. Lucia Zuin, Staff Scientist - PGM
	Macromolecular Crystallography	Dr. Shaun Labiuk, Research Associate - CMCF
	SpectroMicroscopy research	Dr. Chithra Karunakaran, Staff Scientist - SM
<b>10:45 - 11:00 AM</b>	Break	
<b>11:00 AM - 12:00 PM</b>	How can this fit into your curriculum?	Tracy
<b>12:00 - 1:00 PM</b>	Lunch	
<b>1:00 - 2:45 PM</b>	<b>Practical Sessions: Experiments on the beamline please choose one</b>	
	Industrial research using VESPERS	Jeremy Olson, Industrial Science Associate
	Using MidIR radiation in research: cheek cell analysis as an example	Dr. Ferenc Borondics, Staff Scientists - Mid IR
<b>2:45 - 3:00 PM</b>	Break	
<b>3:00 - 3:30 PM</b>	Students on the Beamlines What's been done?	Tracy
<b>3:30 - 4:30 PM</b>	Research possibilities for students: how do we make it work?	Rob & Tracy
<b>6:30 - 9:00 PM</b>	<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p style="text-align: center;">Science Education &amp; Science Research Collaborative Dinner Western Development Museum - 2610 Lorne Avenue South <a href="http://wdm.ca/stoon.html">http://wdm.ca/stoon.html</a></p> </div> <div style="flex: 1; text-align: center;">  </div> </div>	

## **CLS Teachers' Workshop 2011**

Monday, October 17, 2011		
Time	Topic	Presenter
<b>8:15 AM</b>	<b>Doors open for a quick breakfast</b>	
<b>8:30 - 10:30 AM</b>	<b>Practical Sessions: please choose one</b>	
	Inside the Rings and more!	Grant
	Biomedical Imaging & Therapy: the research and the beamline	Dr. Dean Chapman, Canada Research Chair in X-ray Imaging, University of SK & Dr. George Belev, CLS Staff Scientist-BMIT
<b>10:30 - 10:45 AM</b>	Break	
<b>10:45 - 11:45 AM</b>	Finding the antidote to mass poisoning: arsenic and selenium in Bangladesh	Dr. Ingrid Pickering, Canada Research Chair in Molecular Environmental Science, University of Saskatchewan
<b>11:45 AM - 12:45 PM</b>	Lunch	
<b>12:45 - 1:45 PM</b>	Taste of Research: a story of multi- disciplinary project	Dr. Lachlan MacLean, Science Associate - SXRMB
<b>1:45 - 2:45 PM</b>	Pedagogical Discussions: Now how do I use this?	Tracy
<b>2:45 - 3:00 PM</b>	Break	
<b>3:00 - 4:30 PM</b>	Inside the Rings and more!	Grant