



14th Canadian Powder Diffraction Workshop – Berry School

<https://xtallography.ca/index.php/xtal/meetings/cpdw14/>

Sponsored by:

Canadian National Committee for Crystallography: <http://xtallography.ca>

and

Mineralogical Association of Canada: <https://www.mineralogicalassociation.ca>

Hosted at: Western University, London, Ontario, Canada

Saturday October 30 –Tuesday November 1, 2021

Registration in PAB-100

Workshop Program (Rev. 3)

Saturday Oct 30 th		
9:00-9:20 (PAB-36)	Coffee & Snacks	
9:20-9:30 (PAB-117)	Welcome	Robbie Flemming
9:30-10:00 (PAB-117)	Intro to cells and symmetry, planes and positions	Joel Reid
10:00-10:30 (PAB-117)	Intro to diffraction, structure factors, reciprocal space	Jim Britten
10:30-11:30 (PAB-117)	Intro to Powder Diffraction	Joel Reid
11:30-12:30 (PAB-117)	Crystal Size Distribution by 2D XRD	Bob He
12:30-1:30 (Grad Club)	Lunch	
1:30-2:30 (BGS-0182 / BGS-0184)	Phase ID – Eva Demo	Vicky Jarvis
2:30-3:30 (BGS-1062 / BGS-1063)	Radiation Awareness / Lab Tour	
3:30-4:00 (PAB-36)	Coffee & Snacks	
4:00-5:30 (BGS-1062 / BGS-1063))	Data collection	
5:30-ish	Happy Hour	
Sunday Oct 31 st		
9:00-09:30 (PAB-36)	Coffee & Snacks	
09:30-10:30 (PAB-117)	Sample Preparation	Rebecca Funk
10:30-11:30 (PAB-117)	<i>In situ</i> 2D XRD	Robbie Flemming
11:30-12:30 (PAB-117)	XRD3	Jim Britten
12:30-1:30 (Grad Club)	Lunch	
1:30-2:30 (BGS-0182 / BGS-0184)	BFCP Software Demo	Yaozhu Li
2 :30-3 :30 (BGS-0182 / BGS-0184)	Mercury Demo	Jim Britten
3 :30-4 :00 (PAB-36)	Coffee & Snacks	

4:00-5 :30 (BGS-0182 / BGS-0184 / BGS-1062 / BGS-1063)	Data Analysis (BFCP, EVA, GADDS, MAX3D); Data collection cont'd	The gang
5 :30-ish	Happy Hour	
Monday Nov 1st		
9:00-09:30 (PAB-36)	Coffee & Snacks	
9:30-10:30 (PAB-117)	Powder diffraction, Rietveld Refinement and GSAS-II	Bob Von Dreele
10:30-11:30 (PAB-117)	Materials diffraction and/or software development and/or structure solution	Bob Von Dreele
11:30-12:30 (PAB-117)	The Rietveld Method of Quantitative Analysis	Greg Schmidt
12:30-1:30 (Grad Club)	Lunch	
1:30-2:30 (BGS-0182 / BGS-0184)	Software tutorials: GSAS-II, Eva, Topas	Bob Von Dreele / Beatriz Moreno, the gang
2:30-3:30 (BGS-0182)	Olympus Terra II demo	Dominique Huot
3 :30-4:00 (PAB-36)	Coffee & Snacks	
4:00-5 :30 (BGS-0182 / BGS-0184 / BGS-1053 / BGS-1062 / BGS-1063)	Software Tutorials– GSAS-II Data collections cont'd	Bob Von Dreele / Beatriz Moreno, the gang
5 :30-ish	Happy Hour	
Tuesday Oct 2nd		
9:00-09:30 (PAB-36)	Coffee & Snacks	
9:30-10 :30 (PAB-117)	Intro to Topas and Profile Fitting	Nate Henderson
10:30-11:30 (PAB-117)	Microstructure and Whole Pattern Fitting	Nate Henderson
11:30-12:30 (PAB-117)	Synchrotron Diffraction – Pair Distribution Function Analysis	Beatriz Moreno
12:30-1:30 (Grad Club)	Lunch	
1:30-2:30 (BGS-0182 / BGS-0184)	Indexing a powder pattern	Nate Henderson
2:30-3:30 (PAB-117)	Student presentations (or posters)	Students
3 :30-4 :00 (PAB-36)	Coffee & Snacks	
4 :00-5 :30 (PAB-117)	Student Presentations	Students
5 :30-ish	Depart for GAC-MAC Icebreaker	All

Presenters / Instructors for CPDW14-Berry School (Workshop 8)

Jim Britten (McMaster University)
 Fengke Cao (Western University)
 Roberta Flemming (Western University)
 Rebecca Funk (University of Alberta)
 Bob He (Bruker) - virtual
 Nathan Henderson (Bruker)
 Dominique Huot (Olympus / IMDEX)
 Vicky Jarvis (McMaster University)
 Izabela Kolodziej (Proto Manufacturing)

Yaozhu Li (Western University)
 Beatriz Moreno (Canadian Light Source)
 Sid Pharasi (Bruker)
 Joel Reid (Canadian Light Source) - virtual
 Gregory Schmidt (Proto Manufacturing)
 Bob Von Dreele (Argonne National Lab) - virtual