



***PROGRAM FOR 16TH CPDW**
May 23 – 26, 2023 in Vancouver, Canada

Lectures and software sessions will be held in Chemistry room **C126**.

Date & Time	Session	Topic	Speaker
Tues May 23			
8:30 - 8:45		Welcome and Introductions	Anita and Brian
8:45 - 9:15	S0	Software installation and CWL connection	everyone involved
9:15 - 10:15	L1	Introduction to Powder Diffraction and the Rietveld Method	Joel Reid
		coffee break	
10:45 - 11:30	L2	Phase Identification	Bussaraporn Patarachao
11:30 - 12:15	L3	The Rietveld Refinement Method in GSAS-II	Bob Von Dreele
		lunch break	
13:15 - 14:15	S1	Hands-on software (basic): EVA, TOPAS	Nick Rodesney
14:15 - 15:15	S2	Hands-on software (basic): HighscorePlus	Luciano Gobbo
		break	
15:30 - 16:30	S3	Hands-on software (basic): GSAS-II	Bob and Joel
16:30 - 17:00	S4	PowDLL, Mercury, maybe others...	Anita, Jim, Brian?
after 17:00	T1	Optional Tour 1	
Wed May 24			
8:30 - 9:15	L4	Crystallography	Brian Patrick
9:15 - 10:00	L5	Sample Preparation	Nick Rodesney
10:00 - 10:30	L6	Sample types and applications...a journey	Anita Lam
		coffee break	
11:00 - 11:30	L7	Nanomaterials	Bussaraporn Patarachao
11:30 - 12:15	L8	Overview of XRD Analysis of Clays – Qualitative and Quantitative Analysis	Nick Rodesney
		lunch break	
13:15 - 14:15	S5	Rietveld – GSAS-II (focus on quantitative phase analysis)	Bob and Joel (breakout room available)
14:15 - 15:15	S6	Rietveld – TOPAS (focus on quantitative phase analysis)	Nick Rodesney (breakout room available)
		break	
15:30 - 16:30	S7	Rietveld – HighscorePlus (focus on quantitative phase analysis)	Luciano Gobbo (breakout room available)
16:30 - 17:00	S8	Student practice and/or other topic	
after 17:00	T2	Optional Tour 2	

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Thurs May 25			
8:30 - 9:00	L9	Rietveld – Size and Strain overview	Jacques Huot
9:00 - 9:45	L10	Amorphous Quantification Methods	Luciano Gobbo
9:45 - 10:15	L11	Canadian Light Source - Synchrotron	Joel and Beatriz
		coffee break	
10:45 - 11:30	L12	What else does GSAS-II do?	Bob Von Dreele
11:30 - 12:15	L13	Grazing Incidence X-ray Diffraction and Scattering	Beatriz Diaz Moreno
		lunch break	
13:15 - 14:15	S9	Rietveld – HighscorePlus (focus on size/strain/amorphous content)	Luciano Gobbo (breakout room available)
14:15 - 15:15	S10	Rietveld – TOPAS (focus on size/strain/amorphous content)	Nick Rodesney (breakout room available)
		break	
15:30 - 16:30	S11	Rietveld – GSAS-II	Bob/Beatriz/Joel (breakout room available)
16:30 - 17:00	S12	Student practice and/or other topic	
after 17:00	T3	Optional Tour 3	
Fri May 26			
8:30 - 9:15	L14	X-ray, Neutron, and Synchrotron for New Materials	Jacques Huot
9:15 - 10:00	L15	Structure Solution with Powder Diffraction	Joel Reid
		coffee break	
10:30 - 11:15	L16	2D-3D Materials Diffraction	Jim Britten
11:15 - 12:00	L17	In-situ X-ray Diffraction Experiments	Beatriz Diaz Moreno
12:00 - 12:30	L18	Cellulose – a roundtable discussion	Anita, Zhangmin, Mahfuzul
		lunch break	
13:30	S13	Structure Solution from Powder – GSAS-II	Joel Reid
		questions	
~14:45		Materials Workshop primer or student presentations	Vicky/Jim or others
16:30		Closing and Final Remarks	Anita and Brian

*We will try to hold to the scheduled times but they may shift. The schedule is subject to change.