

Canadian Chemical Crystallography Workshop

Arthur Bourns Building, McMaster University

Hamilton, ON, CANADA, May 22 - 26, 2017

Please join us for a five day Chemical Crystallography workshop at McMaster University, May 22-26, 2017. The workshop is aimed at chemistry graduate students and novice crystallographers (including postdocs and Faculty) who wish to increase their knowledge in X-ray Crystallography and their proficiency in handling data and solving structures. We will solve and refine several structures, and *participants are especially encouraged to bring their own data*; **OLEX2** software packages (free) will be used. Instructors will present short talks and demonstrations to explain *the theory, practice and details of the path from crystal to 3D diffraction pattern to structure to publication*. Students will have the opportunity to present their work.



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

REGISTRATION: Course fee is \$220 for Academics,
\$440 Industrial

Accommodation: On campus housing available.

Inquiries

<http://xtallography.ca/index.php/xtal/meetings/cccw17/>
britten@mcmaster.ca

Applications must be supported by email from Supervisor.

ORGANIC, INORGANIC,
ORGANOMETALLIC,
SOLID STATE, MINERAL

Instructors

Jalil Assoud, University of Waterloo.

Jim Britten, McMaster University.

Chuck Campana, Bruker-AXS.

Louise Dawe, Wilfrid Laurier University.

Lee Daniels, Rigaku.

Topics

Choosing and mounting the best crystal

Diffraction of X-rays

Data collection and reduction

Symmetry

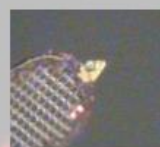
Olex2, SHELX, PLATON,
Mercury, EnCIFer

Structure solution

Structure refinement

Molecular and crystal structure
evaluation, CIF's, publication

Single Crystal Structure Determination

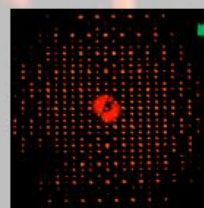


Rotate 200µm crystal in X-ray beam



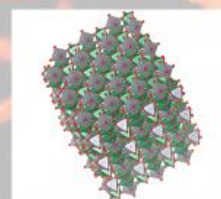
Every 0.5° store CCD image of diffraction.

Identify unit cell and Space Group



Collect full diffraction pattern

Phase and Fourier Transform to see structure



UC San Diego 17 Nov 2015

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