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Workshop #3: Structure refinement and disorder modelling with Olex2 and NoSpherA2

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Date/Time	Friday, July 7, 2023 @ 8:00 AM ET	Registration Fees (registration fee includes catering during coffee and lunch break)
Location	Essex AB	Regular: \$180 Per Person Retired: \$180 Per Person PostDoc: \$120 Per Person Student: \$120 Per Person Corporate: \$180 Per Person
Max Capacity	50	
Main Contact	Florian Kleemiss	

Description

Olex2 has become one of the most widely used software for working with single-crystal diffraction data. There are many features that make dealing even with complicated structures very easy. For example, setting up complicated disorder models, the introduction of constraints & restraints and the use of well-documented solvent masks. One of the newest and most revolutionary features is the introduction of non-spherical form factors in the refinement at the click of a button: Non-Spherical Atoms in Olex2 NoSpherA2.

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In this workshop, we will introduce the features that establish a robust routine workflow for the expert refinement of difficult structures. This includes – but is not limited to – treatment of solvent molecules, disorder, fragment-based model building and the generation of publication-quality material directly after the refinement. We will also introduce the workflow implementation of NoSpherA2 and discuss the advantages of this sophisticated refinement technique, which include the significant improvement of the model quality, often allowing for the reliable refinement of hydrogen atom positions from X-ray data.

The workshop will be based on a watch-and-repeat model, where examples are shown on stage. Participants are then encouraged to try the features on their computers, first using provided examples and ultimately with their data

Schedule*

Time	Instructor/Topic
8:30 AM - 8:45 AM ET	Florian Kleemiss Introduction / Outline
8:45 AM - 9:30 AM ET	Iliia Guzei <ul style="list-style-type: none"> Workflow in Olex2 – Solving and refining sucrose File Editing / Refinement options
9:30 AM - 10:00 AM ET	Michael Bodensteiner Refining conformational disorder
10:00 AM - 10:30 AM ET	Coffee Break
10:30 AM - 11:00 AM ET	Iliia Guzei Refinement of disorder across a symmetry element
11:00 AM - 11:30 AM ET	Florian Kleemiss Use of solvent masks (BYPASS)
11:30 AM - 12:00 PM ET	Michael Bodensteiner Producing a publishable CIF and CheckCIF
12:00 PM - 1:00 PM ET	Lunch (included)
1:00 PM - 1:30 PM ET	Iliia Guzei Using FragmentDB for "known suspects"
1:30 PM - 3:00 PM ET	Florian Kleemiss <ul style="list-style-type: none"> NoSpherA2 – How it works Refinement of exemplary structures using NoSpherA2
3:00 PM - 3:30 PM ET	Coffee Break
3:30 PM - 4:00 PM ET	Florian Kleemiss Visualizations and diagrams with Olex2
4:00 PM - 6:30 PM ET	<ul style="list-style-type: none"> Participants' examples and Q&A Group discussion of results/ progress/ survey

Instructors



Michael Bodensteiner
OlexSys Ltd.



Ilia Guzei
Chemistry, UW Madison



Florian Kleemiss
University of Regensburg

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Structural Dynamics



