

Plan of the Scientific Workshop

“Practical Electron Crystallography with Rigaku XtaLAB Synergy-ED”

Jakub Wojciechowski, Rigaku Europe SE

Auditorium, Institute of Low Temperature and Structure Research PAS, Wednesday, July 5, 2023

9:00 – 9:10 Welcome and introductions

9:10 – 9:30 Introduction to the method and instrumentation

9:30 – 10:00 Sample preparation and typical workflow (demonstration movies).

10:00 – 11:00 Live session with XtaLAB Synergy-ED @ RESE application laboratories

- Easy sample centering with CrysAlis^{Pro}
- Overcoming some typical centering problems

11:00 – 11:30 Coffee brake / sample grid handling challenge

11:30 – 12:30 Processing electron diffraction dataset with CrysAlis^{Pro}

- What are the differences and challenges for dataset collected with extreme short wavelength.
 - Dataset1.zip
- Merging dataset together for improving completeness and outlier rejections.
 - Datasets2.zip
- New tools in CrysAlis^{Pro} useful for handling electron diffraction datasets and not only.

12:30 – 13:30 Practical approach for solving and refining crystal structures

- What to expect for typical good data.
 - CrystalStructure1.zip
- Solving challenging crystal structure.
 - CrystalStructure2.zip