AMBIENT CRYSTALLOGRAPHY A CHESS 2030 WORKSHOP

Sept. 30 & Oct. 1, 2021

This workshop will discuss the latest breakthroughs in structural biology using crystallography at room temperature and beyond, including new techniques and methods, applications, consequences of non-cryogenic crystallographic data, and radiation damage.



What do we gain from collecting X-ray diffraction data at or close to physiological temperatures?

Discussion will focus on four broad topics:

- The development of new methods for room temperature crystallography, including serial and single-crystal techniques
- Applications of room temperature crystallography including time-dependent and dynamics experiments
- The differences between diffraction data collected at cryogenic temperature and room temperature
- Dealing with radiation damage associated with room temperature data collection.

Featuring invited presentations by:

Galen Correy (UCSF) Aaron Finke (Cornell University) Marcus Fischer (St. Jude's Children's Hospital, Memphis) Daniel Keedy (CUNY) Wei Liu (Arizona State University) Pedram Mehrabi (Max Planck Institute, Hamburg) Matteo Minghetti (Oklahoma State) Henrike Müller-Werkmeister (U. Potsdam) Nick Pearce (Vrije Universitet Amsterdam)

NELL HIGH ENER

Sarah Perry (UMass Amherst) Tamar Skaist (CUNY) Rob Thorne (Cornell University) Filip Yabukarski (Chan-Zuckerberg Bioinitiative)

