Serial Crystallography Methods Workshop

Monday 18 August 2025 - Friday 22 August 2025

HARBOR

Scientific Programme

Developer/Instrument Scientist-Focused

Monday, Tuesday and Friday (18, 19 and 22 Aug) will be structured around challenges and advancements in hardware and software from the perspective of the people building the tools, broadly defined. Topics covered will include:
Aligning experiment methods with data handling and analysis
Electron diffraction and other new tools
Cross-facility hardware portability
Handling high data rates and data volumes
Metadata and coordination of related datasets
Data deposition and archival
Sample delivery and sample handling
Remote beam time
Nitty-gritty data processing challenges
Responding to the needs of the users of our tools

User-Focused

Wednesday and Thursday (20-21 Aug) will highlight user experiences. This includes opportunity for beam time users to communicate to instrument scientists and developers what is and isn't working in their current workflows, what they see as the most important problems to solve, and what they are most excited to see made possible. Topics covered will include:
Transitioning experienced crystallographers from rotation to serial crystallography and from static to time-resolved methods
Synthesizing multimodal and multicrystal data for deposition
Shortcomings of existing integration and scaling processes
Fast feedback during beam time
Small molecule serial crystallography, including time-resolved
Modeling time resolved experiments
Quantum refinement
Ambitions for new types of experiments