



St. Jude - SERCAT Structural Biology Symposium



March 18th–19th, 2021

Online

Workshop on Remote Data Collection at ALS & SER-CAT

(Format: zoom-based virtual, Time: 1:00pm-6:00pm CT, March 18, 2021)

1:00 - 1:10pm: Director's Introduction of ALS & SER-CAT Partnership
Speaker: Professor Bi-Cheng Wang

1:10 - 4:00pm: Remote data collection at ALS Beamlines 5.0.1,2
Speaker: Dr. Marc Allarie, ALS@Lawrence Berkeley National Lab

The APS produces about half of U.S. PDB entries each year. The facility will go dark in 2022 to upgrade its 25-year-old storage ring. The Dark Period will produce a tremendous demand by APS users for beam time at other facilities in the US. To help provide our member users with *Light When You Need It*, SER-CAT has reserved beam time on ALS beamlines 5.0.1 and 5.0.2 during the APS dark period. We have invited Dr. Marc Allarie from ALS who is very familiar with these beamlines to give a live demonstration on how to use the ALS facility (crystal mounting, sample rastering, data collection, data processing, transferring data back to the home institution etc.). He will also be available to answer any questions our users may have.

4:00 - 5:00pm: Getting the best data from APS Beamline 22ID
Speaker: Dr. John Chrzas, APS@Argonne National Lab

Enabled by new K-B focusing mirror system, Eiger16M fast detector, large-capacity sample mounting robot and high-precision MD2 goniometer system, data collection at 22ID has become faster and data quality has been significantly improved. Dr. John Chrzas will describe how to make optimal use of 22ID, how to get the best data from micro crystals using mini beams, sample rastering, automated data management, crystal screening and parallel multi-program auto-processing.

5:00 - 6:00pm: Poster Session Featuring Prize Winners

Winning student and postdoc posters will be presented. Winners will be available to answer questions and prizes will be announced at the end of the session.

Zoom Co-hosts:

Dr. Zheng-Qing (Albert) Fu, SER-CAT and University of Georgia, fuzq@anl.gov

Dr. John Rose, SER-CAT and University of Georgia, jprose@uga.edu

Dr. Darcie Miller, St. Jude Children's Research Hospital, darcie.miller@stjude.org

