

# **Virtual Annual CCP4/APS Crystallographic School (2022) in the US**

Dear Colleagues,

We are pleased to announce the virtual annual CCP4/APS crystallographic school “From data collection to structure refinement and beyond” will be held on June 13-24, 2022 at the Advanced Photon Source (APS), Argonne National Laboratory (ANL), near Chicago, Illinois, USA. All details can be found at the school website: <http://www.ccp4.ac.uk/schools/APS-2022/index.php>.

Dates: June 6 (prep day) and June 13 through 24, 2021 (with a weekend break on June 18 and 19<sup>th</sup>)

Location: Virtual/Remote

The school comprises two parts: remote data collection workshop and virtual crystallographic computing workshop. Data collection workshop includes beamline training, data collection on GM/CA at APS beamlines 23ID-D and 23ID-B equipped with Pilatus3 6M and Eiger 16M detectors respectively, and data processing. For data collection, only the participants' crystals will be used. Crystallographic computation workshop will feature many modern crystallographic software packages taught by authors and other experts. The daily schedule will be organized in three sections – lectures, tutorials, and hands-on (interactive troubleshooting of the technical difficulties the participants face in their projects). We have had considerable success resolving these problems in past years, attested by resulting publications (see <http://www.ccp4.ac.uk/schools/APS-school/publications.php>). A sample program, contact info and other details can be found at the School website.

Applicants: Graduate students, postdoctoral researchers and early-career faculty, along with commercial/industrial researchers are encouraged to apply. Only about 20 applicants will be selected for participation. Participants of the workshop are strongly encouraged to bring their own problem data sets or crystals so the problems can be addressed during data collection and/or computation workshops.

Application: Application deadline is April 15th, 2022. To apply, visit <https://www.ccp4.ac.uk/schools/APS-2022/application.php>.

Fees: There is no fee for attending the virtual school for the chosen applicants.

We hope to see you at the school.

Charles, Andrey, Garib and Qingping