

S²C² Workshop – Cryo-EM Training for Beginners January 22-25, 2019

Stanford-SLAC Cryo-EM Center (S²C²) would like to offer a four-day training workshop on experimental aspects of cryo-EM tailored to beginners held at SLAC National Accelerator Laboratory between Jan 22 and 25, 2019. Preference of trainees is given to individuals who have research projects ready for cryo-EM investigations and have background in structural biology. This workshop will consist of three half-day lectures and four half-day hands-on training sessions. The lecture is opened via online teleconferencing with a limited number of registered participants while the hand-on sessions are limited to 8 participants. If you are interested, you may apply before January 5, 2019.

Location: Redwood Room, Bldg. 048

Lecture Agenda

Day 1: Jan 22, 2019

8:30 AM - 9:45 AM Lesson 1: Cryo-specimen preparation (Georgios Skiniotis, Stanford University)

10:00 AM - 11:15 AM Lesson 2: Radiation damage (Wah Chiu, Stanford University/SLAC National Accelerator Lab)

11:15 AM - 11:30 AM Coffee Break

11:30 AM - 12:45 PM Lesson 3: Camera - CCD and direct detector (Chris Booth, Gatan)

Day 2: Jan 23, 2019

8:30 AM - 9:45 AM Lesson 4: TEM basics and column alignment (Juergen Plitzko, Max Planck Institute of Biochemistry [remote lecture])

10:00 AM - 11:15 AM Lesson 5: Low dose imaging via Serial EM and EPU (David Bushnell, Stanford University/SLAC National Accelerator Lab)

11:15 AM - 11:30 AM Coffee Break

11:30 AM - 12:45 PM Lesson 6: Image contrast theory (Wah Chiu)

Day 3: Jan 24, 2019

8:30 AM - 9:45 AM Lesson 7: eLogbook, data collection monitoring and pre-processing (Yee Ting Li, SLAC National Accelerator Lab)

10:00 AM - 12:00 PM Lesson 8: Krios and Talos alignment (John Spear, Thermo Fisher Scientific)

If you'd like to be notified of future training opportunities, please email s2c2@slac.stanford.edu.