

NCCAT TOMOGRAPHY SHORT COURSE

APRIL 13-17, 2020

DAY 1: MONDAY, APRIL 13, 2020

09:00 – 09:30	Registration and Welcome – SEMC conference room
09:50 – 10:00	Opening – NYSBC conference room
10:00 – 11:15	Keynote / Lecture 1 – NYSBC conference room <i>Intro and overview of ET</i> Wei Dai (Rutgers University)
11:15 – 11:30	Break
11:30 – 12:15	Roundtable 1 – SEMC conference room <i>Introductions and course overview</i> Short course attendees
12:15 – 13:15	Lunch
13:15 – 17:00	Practical 1 – SEMC conference room <i>ET sample preparation – HPF/Plunge freezers</i> Practical 2 – SEMC conference room <i>cryoCLEM-FIB-ET workflow</i> SEMC/NCCAT Staff

DAY 2: TUESDAY, APRIL 14, 2020

09:00 – 09:30	Registration/Information desk – SEMC conference room
09:45 – 11:00	Lecture 2 – NYSBC conference room <i>FIB-SEM</i> Bill Rice (New York University)
11:00 – 11:15	Break
11:15 – 12:00	Roundtable 2 – SEMC conference room <i>Making windows into cells</i> Bill Rice & SEMC/NCCAT Staff
12:00 – 13:15	Lunch
13:15 – 17:00	Practical 3 – SEMC conference room <i>Krios cryoET data collection</i> SEMC/NCCAT Staff

DAY 3: WEDNESDAY, APRIL 15, 2020

09:00 – 09:30	Registration/Information desk – SEMC conference room
09:45 – 11:00	Lecture 3 – NYSBC conference room <i>Cryo-Applications and sub-tomogram averaging</i> Alex Noble (NYSBC/SEMC)
11:00 – 11:15	Break
11:15 – 12:00	Roundtable 3 – SEMC conference room <i>Choosing the right in situ target and model system</i> Alex Noble & SEMC/NCCAT Staff
12:00 – 13:15	Lunch
13:15 – 17:00	Practical 4 – SEMC conference room <i>Appion Protomo tools and sub-tomogram averaging</i> Alex Noble & SEMC/NCCAT Staff
14:45 – 17:00 <i>by appointment</i>	Practical 3B – SEMC conference room <i>Krios cryoET data collection (continued)</i> SEMC/NCCAT Staff

DAY 4: THURSDAY, APRIL 16, 2020

09:00 – 09:30	Registration/Information desk – SEMC conference room
10:00 – 12:00	Lecture 4 – NYSBC conference room <i>Automated reconstruction, subtomogram averaging methods & data interpretation</i> Steven Ludtke (Baylor College of Medicine)
12:00 – 13:15	Lunch
13:15 – 13:30	Group photo
13:30 – 17:00	Practical 5 – SEMC conference room <i>EMAN2 tools, sub-tomogram averaging and annotation</i> Muyuan Chen (Baylor College of Medicine)
14:45 – 17:00 <i>by appointment</i>	Practical 3C – Krios control room <i>Krios cryoET data collection (continued)</i> <i>Time reserved for data collection of select student projects</i> SEMC/NCCAT Staff
18:00 – 20:00	Reception <i>Group dinner</i>

DAY 5: FRIDAY, APRIL 17, 2020

09:00 – 15:30	Registration/Information desk – SEMC conference room <i>room available all day except for classes</i>
10:00 – 10:45	Roundtable 4 – SEMC conference room <i>The future of in situ cellular structural biology</i> SEMC/NCCAT staff
10:45 – 11:15	Closing and farewell
11:30 – 15:30 <i>by appointment</i>	Practical 3D – Krios control room <i>Krios cryoET data collection (continued)</i> <i>Time reserved for data collection of select student projects</i> SEMC/NCCAT Staff