

BCA/CCP4 Protein Crystallography Summer School 2018 Draft Programme

Monday 27th August 2018

15:00	<i>Arrival and registration</i>
16:00	<i>Welcome</i>
16:10	Talk: Crystallography
16:30	Student Stories
18:30	<i>Dinner</i>
19:30	Student Stories
21:30	<i>Drinks</i>

Tuesday 28th August 2018

7:30	<i>Breakfast</i>
9:00	Lecture: Crystallization
9:45	Lecture: Diffraction
10:30	<i>Coffee</i>
11:00	Lecture: Crystal Preparation for Cryocrystallography
11:45	Lecture: Fourier Transform
12:30	<i>Lunch</i>
13:30	Lecture: Symmetry and Space Groups
14:15	Lecture: Space Group Determination
15:30	<i>Tea</i>
16:00	Social Event in Oxford

Wednesday 29th August 2018

7:30	<i>Breakfast</i>
9:00	Lecture: Data Collection
9:45	Lecture: Data Scaling and Merging
10:30	<i>Coffee</i>
11:00	Practical: Data Processing
12:30	<i>Lunch</i>
13:30	Lecture: Pattersons
14:00	Lecture: Models for Molecular Replacement
14:30	Lecture: Molecular Replacement
15:30	<i>Tea</i>
16:00	Practical: Molecular Replacement
19:00	<i>Dinner</i>
20:00	Guest Lecture

Thursday 30th August 2018

7:30	<i>Breakfast</i>
9:00	Lecture: Maximum likelihood with Dice

9:45	Lecture: Preparation of Derivatives
10:30	<i>Coffee</i>
11:00	Lecture: Finding Heavy Atom Sites
11:30	Lecture: Experimental Phasing MAD/SAD
12:30	<i>Lunch</i>
13:30	Lecture: Phase Improvement and Model Building
15:00	<i>Tea</i>
15:30-18:00	Practical: Your own data <i>or</i> Complete previous practical <i>or</i> MAD/MIR Phasing with phenix
19:00	<i>Dinner</i>
20:00	<i>Movie: The Double Helix</i>

Friday 31st August 2018

7:30	<i>Breakfast</i>
9:00	Lecture: Refinement
10:30	<i>Coffee</i>
11:00	Lecture: Validation
12:30	<i>Lunch</i>
13:30	Lecture: Radiation Damage
14:15	Lecture: Twinning
15:30	<i>Tea</i>
16:00	Practical: Model Building, Refinement and Validation
19:30	<i>Conference Dinner with Guest Speaker</i>

Saturday 1st September 2018

7:30	<i>Breakfast</i>
9:30	Lecture: Graphics and Representations
10:15	Quiz Questions
10:30	<i>Coffee</i>
11:00	Lecture: NMR
11:45	Lecture: Experiment Management
12:30	<i>Lunch</i>
13:30	Lecture: Electron Microscopy
14:30	Quiz Answers
15:00	<i>Close</i>