BCA/CCP4 Protein Crystallography Summer School 2014 Programme

Tuesday 26th August 2014

15:00		Arrival and registration
16:00		Welcome
16:00	#1	Lecture: Protein Expression and Purification
		Jane Endicott
16:30		Student Stories I
18:30		Dinner - Buffet
19:00		Student Stories II
21:00	#2	Lecture: Diffraction
		Airlie McCoy
21:30		<i>Drinks</i> — sponsored by Bruker

Wednesday 27th August 2014

7:30		Breakfast
9:00	#3	Lecture: Crystallization
		Jane Endicott
9:45	#4	Lecture: Symmetry
		Martin Noble
10:30		Coffee
11:00	#5	Lecture: Crystal Preparation for Cryocrystallography
		Elspeth Garman
12:30		Lunch
		Practical: Crystal Manipulation for Cryocrystallography
		Group 1
		Elspeth Garman
13:30	#6	Lecture: Data Collection
		Katherine McAuley
14:30	#7	Lecture: Data Scaling and Merging
		Frank von Delft
15:30		Tea
16:00		Bus to Oxford
17:00 -		Cruise on the River Thames in a Salter's steamer
21:30		

Thursday 28th August 2014

7:30		Breakfast
9:00	#8	Practical: Data Processing
		Leader: Ed Lowe
10:30		Coffee
11:00	#9	Lecture: Models for Molecular Replacement
		Nick Keep
11:30	#10	Lecture: Molecular Replacement
		Martin Noble/Airlie McCoy
12:30		Lunch
		Practical: Crystal Manipulation for Cryocrystallography
		Group 2
		Ed Lowe
13:30	#11	Practical: Molecular Replacement
		Leaders: Nick Keep/Airlie McCoy
15:30		Tea
16:00		Tour of Ring
17:30	#12	Demonstration: ccp4i2
		Martin Noble
18:30	#13	Lecture: Data Management
		Alun Ashton
19:00		Dinner
20:00		Guest Lecture
		Liz Carpenter "Crystallography of Membrane Proteins"

Friday 29st August 2014

7:45-		Breakfast
8:30		
9:00	#14	Lecture: Maximum likelihood with Dice
		Airlie McCoy
9:45	#15	Lecture: Radiation Damage
		Elspeth Garman
10:30		Coffee
11:00	#16	Lecture: Preparation of Derivatives
		Elspeth Garman
11:30	#17	Lecture: Finding Heavy Atom Sites/Pattersons
		Martin Noble
12:00	#18	Lecture: Experimental Phasing MAD/SAD
		Airlie McCoy
12.30		Lunch
		Practical: Crystal Manipulation for Cryocrystallography
		Group 3
		Elspeth Garman

13:30	#19	Lecture: Phase Improvement and Model Building
		Kevin Cowtan
15:00		Tea
15:30	#20	Practical: MAD/SAD Phasing
		Leader: Martin Noble
17:30	#21	Quiz I
19:00		Dinner
20:00		Guest Lecture
		Brian Sutton

Saturday 30th August 2014

7:30		Breakfast
9:00	#22	Lecture: Refinement
		Nick Keep
10:30		Coffee
11:00	#23	Lecture: Validation
		Swanand Gore
12:30		Lunch
		Practical: Crystal Manipulation for Cryocrystallography
		Group 4
		Elspeth Garman
13:30	#24	Lecture: Graphics and Representations
		Martin Noble
14:15	#25	Lecture: Twinning
		Airlie McCoy
15:30		Tea
16:00	#26	Practical: Map Interpretation and MIR Phasing
		Leader: Paul Emsley
19:30		Conference Dinner
		Guest Speaker: Stephen Curry

Sunday 31st August 2014

7:30		Breakfast
9:30	#27	Lecture: Complementing crystallography with other
		structural techniques
		Nick Keep
11:00		Strong Coffee
11:30	#28	Quiz II
12:30		Close
		Practical: Crystal Manipulation for Cryocrystallography
		Group 5
		Elspeth Garman