BCA/CCP4 Protein Crystallography Summer School 2016 Programme

Sunday 21st August 2016

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		*Drinks*

Monday 22nd August 2016

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 - 21:30		Cruise on the River Thames in a Salter's steamer

Tuesday 23rd August 2016

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 Elspeth Garman
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

Wednesday 24th August 2016

7:45- 8:30		Breakfast
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*

Thursday 25th August 2016

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*

Friday 26th August 2016

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