

SPring-8/CCP4 Workshop and Computational Crystallography School

January 23 – January 27
SPring-8, Hyogo, Japan

Course Tutors:

Phil Evans, MRC-LMB
Garib Murshudov, MRC-LMB
Andrea Thorn, Hamburg
Bernhard Lohkamp, Karolinska
Charles Ballard, CCP4
Eugene Krissinel, CCP4
Andrey Lebedev, CCP4
Ronan Keegan, CCP4
Gregor Chojnowski, Hamburg
Michail Isupov, Exeter
Takanori Nakane, Tokyo
Kunio Hirata, Spring-8
Nobutoshi Ito, Tokyo Medical and Dental University, PDBj

Lectures are timetabled to take place, with the afternoons dedicated to tutorials and problem solving.

Day 1 Data Collection and Processing		
9:00 – 9:15	Welcome and overview	Charles Ballard
9:15 – 10:30	Data collection at synchrotron	Kunio Hirata
	Coffee break	
11:00 – 11:45	Data processing theory	Phil Evans
11:45 – 12:30	Dials	James Parkhurst
	Lunch Break	
14:00 onwards	Data processing tutorial Problem solving	
Day 2 Still processing data		
9:00 – 9:45	Data collection at XFEL	T. Nakane
9:45 – 10:30	Scaling data	P. Evans

	Coffee Break	
11:00 – 11:45	Twinning	Andrea Thorn
11:45 – 12:30	Introductions to CCP4i2 and COOT	C. Ballard and B. Lohkamp
	Lunch Break	
14:00 - onwards	I2 and COOT tutorials Problem Solving	
Day 3 Phasing		
9:00 – 9:45	Phasing pipelines in CCP4	Michial Isupov
9:45 – 10:30	Shelx for EP	Andrea Thorn
	Coffee Break	
11:00 – 11:45	Model Preparation for MR	Ronan Keegan
11:45 – 12:30	Manual MR	Andrey Lebedev
	Lunch Break	
14:00 – onwards	Phasing Tutorials Problem Solving	
Day 4 Model Building and Refinement		
9:00 – 9:45	Dictionaries for refinement	Garib Murshudov
9:45 – 10:30	Refinement	Garib Murshudov
	Coffee Break	
11:00 – 11:45	Arp/Warp automatic building	Gregor Chojnowski
11:45 – 12:30	Buccaneer and Coot	Bernhard Lohkamp

	Lunch Break	
14:00 - onwards	Model building and Refinement tutorial Problem solving	
Day 5 Ligands and analysis		
9:00 – 9:45	Arp/Warp ligands	G. Chojnowski
9:45 – 10:30	Oligimers and analysis	Eugene Krissinel
	Coffee Break	
11:00 – 11:45	Symmetry, Zanuda and pathologies	Andrey Lebedev
11:45 – 12:30	Deposition at the PDBj	Nobutoshi Ito
	Lunch Break	
14:00 - onwards	Ligand tutorial Problem solving	

The lectures are open.

The tutorial and problem solving sessions are limited to participants only.

Important: This schedule is a rough indicator, and will, in all likelihood, change from day to day.