

KEK CCP4 Workshop and Computational Crystallography School

November 4 – November 8
Photon Factory, Tsukuba

Course Tutors:

Phil Evans, MRC-LMB
Garib Murshudov, MRC-LMB
Andrea Thorn, MRC-LMB
Bernhard Lohkamp, Karolinska
Charles Ballard, CCP4
Eugene Krissinel, CCP4
Andrey Lebedev, CCP4
Joana Pereria, Hamburg
Victor Lamzin, Hamburg
Ito Nobutoshi, PDBj
Naohiro Matsugaki, Photon Factory

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

Day 1 Data Collection and Processing		
9:00 – 9:45	Welcome and overview	Charles Ballard
9:45 – 10:30	Data collection at synchrotron	Naohiro Matsugaki
	Coffee break	
11:00 – 11:45	Data processing	Phil Evans
11:45 – 12:30	Data Scaling	Phil Evans
	Lunch Break	
14:00 onwards	CCP4i introduction Data processing tutorial Problem solving	
Day 2 Experimental Phasing		
9:00 – 9:45	Data collection strategies (and continuation of data collection)	Phil Evans

9:45 – 10:30	Twinning	Andrea Thorn
	Coffee Break	
11:00 – 11:45	EP using SHELX	Andrea Thorn
11:45 – 12:30	Automatic EP using CRANK/CRANK2	Raj Pannu
	Lunch Break	
14:00 - onwards	EP tutorial Coot brief introduction Problem Solving	
Day 3 Molecular Replacement		
9:00 – 9:45	Manual MR	Andrey Lebedev
9:45 – 10:30	Automatic MR	Garib Murshudov
	Coffee Break	
11:00 – 11:45	Introduction to Coot	Bernhard Lohkamp
11:45 – 12:30	Density Modification	Raj Pannu
	Lunch Break	
14:00 – onwards	EP Tutorial DM Tutorial Coot Tutorial Problem Solving	
Day 4 Model Building and Refinement		
9:00 – 9:45	Refinement	Garib Murshudov
9:45 – 10:30	Refinement restraints	Garib Murshudov

	Coffee Break	
11:00 – 11:45	Arp/Warp automatic building	Victor Lamzin
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	Joana Pereria
9:45 – 10:30	Oligimers and analysis	Eugene Krissinel
	Coffee Break	
11:00 – 11:45	Zanuda and pathologies	Andrey Lebedev
11:45 – 12:30	Deposition at the PDBj	Ito Nobutoshi
	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.