

S₃V 2010 Draft Syllabus

Sunday June 13th	Monday June 14th		Tuesday June 15th		Wednesday June 16th		Thursday June 17th	Friday June 18th		
	Life Science School Case Studies	Crystallography School	Life Science School choose one of the concurrent practical session listed below	Crystallography School	Life Science School choose one of the concurrent practical session listed below	Crystallography School	AUM/S ₃ V Workshops - choose one of the following	Annual Users Meeting		
	MidIR Case Study presented by Luca Quaroni	Crystallization & cryoprotection techniques	1. Medical Imaging	Phase methods- MAD, SAD & MR using: SHELX, PHASER, & PHENIX. Presentations followed by hands on work with computer access	1. Medical Imaging	Phase extension, model building, refinement, validation and electron density map interpretation: SHELX; PHENIX; COOT; REFMAC, RAPPER & validation tools. Presentations followed by hands on work with computer access	Diffraction Measurements on Micro and Nano scales using Synchrotrons (full day)	Facility Overview		
	CLS follow-up	Introduction to prote in crystallography (diffraction & data collection)					Capabilities, Limitations and Opportunities in Micro-CT Imaging (halfday - am)			
Registration & safety training & BSOs	BMIT Case study presented by Dean Chapman	MAD data collection strategies for crystals with weak anomalous signal and weak diffraction	2. Micro probe - X-ray Fluorescence Mapping		3. Mid Infrared Mapping		3. Mid Infrared Mapping	3. Mid Infrared Mapping	CLS Research Reports: Advances in Coherent Synchrotron Radiation at CLS; Mapping gallium in tissues, a possible new treatment for infection; TBA (early afternoon)	Keynote Scientific Speaker
	CLS follow up								New Results from the CLS	
Welcome	Micro probe Case Study presented by Ingrid Pickering	Data Processing: XDS, MOSFLM, HKL2000 - hands on at the beamline	3. Mid Infrared Mapping		3. Mid Infrared Mapping		3. Mid Infrared Mapping	3. Mid Infrared Mapping	Software for Synchrotron X-Ray Fluorescence Imaging (late afternoon)	Young Researchers
Synchrotron 101	CLS follow up								Practicalities in biological sample preparation (half day - am)	
	Micro probe Case Study presented by Joseph Essiffie - Dugha n									Bio medical Imaging and Therapy (BMIT) Opportunities (half day - pm)
Beamline Basics	Secrets of accessing Beamtime - Robert Blyth								Macromolecular Crystallography	
Tour	Dinner Banquet at Western Development Museum		Free evening				Dinner at Boffins	Free Evening	Banquet	