

Seeing is believing: the future of Structural Biology

Monday 4 February 2013

Venue: CNRS Amphitheater

08:15-08:45	<i>Registration at the CNRS Entrance Hall</i>	
08:45-09:30	Supercharging the source: Basic design and performance	B. Dijkstra ESRF, Grenoble, France
Session 1 (09:30-10:50): Automation for Structural Biology the State of the Art: Quo Vadis? Chair: G. Leonard		
09:30-10:00	Advances in 'conventional' robotic mounting and cryo-quenching: useful developments for microsecond and microbeam/microfocus crystallography	B. Rupp k. k. Hofkristallamt, Vista, USA
10:00-10:30	CrystalDirect: Automated crystal harvesting and more...	F. Cipriani EMBL, Grenoble, France
10:30-10:50	Discussion	
10:50-11:15	<i>Coffee break at the 'Maison des Magistères'</i>	
Session 2 (11:15-12:45): New Approaches for New Experiments Chair: C. Müller-Dieckmann		
11:15-11:45	Acoustic specimen preparation and delivery for next generation X-ray sources	A. Soares BNL, Upton, USA
11:45-12:15	The dominant sources of error in structural biology	J. Holton University of California, San Francisco, USA
12:15-12:45	Discussion	
12:45-14:00	<i>Lunch at the H2 restaurant</i>	
Session 3 (14:00-15:25): Enabling Science from Big Data Chair: A. McCarthy		
14:00-14:30	Protein crystallography with X-ray free electron lasers	H. Chapman CFEL at DESY, Hamburg, Germany
14:30-15:00	Modeling of radiation damage at room and cryogenic temperatures	A. Popov ESRF, Grenoble, France
15:00-15:25	Discussion	
15:25-15:50	<i>Coffee break at the 'Maison des Magistères'</i>	
Session 4 (15:50-17:30): New Science with the ESRF Source Chair: S. McSweeney		
15:50-16:20	Structural biology will continue to underpin medical research and drug discovery	T. Lundqvist Astrazeneca R & D, Mölndal, Sweden
16:20-16:50	Serial crystallography and WAXS: The future is bright	R. Neutze University of Gothenburg, Sweden
16:50-17:30	Discussion	