Two Workshops at NSLS-II
April 19–21, 2010

Building 703, Large Conference Room

Contact: Andy Broadbent

Workshop I – Data Acquisition and User Interfaces

Agenda for April 19, 2010

8:30 a.m.	Steve Dierker (BNL, NSLS-II Project Director)	Welcome, Workshop Charge, and NSLS-II status
9:00	Mark Rivers (APS)	EPICS High-Performance Control and Data Acquisition Using SynApps
9:40	Discussion	
10:00	John Skinner (BNL, Biology)	CBASS - The PXRR's Python-Based Data Acquisition and Beamline Control System
10:40	Discussion	
11:00	Coffee break	
11:30	Jinhu Song (SSRL)	BluIce at SSRL: Special Features of the GUI and Framework
12:10 p.m.	Discussion	
12:30	Lunch	Walk or drive to Berkner Hall
1:30	Emmanuel Papillon (ESRF)	Current Status and Future of Beamline Control Software at ESRF
2:10	Discussion	
2:30	Stuart Wilkins (BNL, Condensed Matter Physics & Materials Science)	Control and Data Acquisition with SPEC - a User's View
3:10	Discussion	
3:30	Coffee break	
4:00	Johnny Kirkland (BNL, NSLS)	Thoughts on GUI-based Data Acquisition Software and LabVIEW
4:40	Discussion	
5:00	Finish	

Agenda for April 20, 2010

9:00 a.m.	Mark Rivers (APS)	4,000 Spectra or 4,000,000 ROIs per Second: EPICS Support for High-Speed Digital X-ray Spectroscopy with the XIA xMap
9:40	Discussion	
10:00	Soeren Schmidt (RISO) By teleconference	FABLE - TotalCryst - and some ideas on how to remove all possible causes why the user shouldn't publish data collected at a synchrotron
10:40	Discussion	
11:00	Coffee break	
11:30	Paul Gibbons (Diamond) By teleconference	GDA at Diamond: Why, What, How and What Next?
12:10 p.m.	Discussion	
12:30	Lunch	Walk or drive to Berkner Hall
1:30	Wayne Lewis (ex-ASP)	Beamline Control at the Australian Synchrotron
2:10	Discussion	
2:30	Robert Petkus (BNL, NSLS-II)	Network architecture for NSLS-II
3:10	Discussion	
3:30	Coffee break	
4:00	Ofer Rind (BNL, Physics)	BNL Large-scale Computing Facility
4:40	Discussion	
5:00	End	
6:30		**No-host dinner at Pasta Pasta in Port Jefferson, NY**
	Andreas Isenegger (SLS)	Cancelled: Data Acquisition and Processing at SLS

Workshop II – Scientific Computing at Modern Synchrotron User Facilities

Agenda for April 21, 2010

9:00 a.m.	Qun Shen (BNL, NSLS-II Experimental Facilities Director)	Welcome, Workshop Charge, and NSLS-II status
9:20	Dieter Schneider (BNL, Biology)	Likely Evolution of Computational Infrastructure for Bio-beamlines Over the Next Five Years
9:35	Discussion	
9:40	Tony Lanzirotti (U. of Chicago)	Computational Needs and Requirements for X-ray Fluorescence Microspectroscopy Users Now and Into the Future
9:55	Discussion	
10:00	Francesco De Carlo (APS, ANL)	Computational Infrastructure For a Fast Tomography Beamline: Present and Future
10:20	Discussion	
10:30	Coffee break	
11:00	Vicente Sole Jover (ESRF) By teleconference	Scientific Computing at the ESRF
11:30	Discussion	
11:35	Ray Osborn (APS)	A Python-based Approach to Interactive X-ray and Neutron Data Analysis
12:05 p.m.	Discussion	
12:10	Lunch	Walk or drive to Berkner Hall
1:10	Amedeo Perazzo (SLAC)	Control and Data Systems for LCLS
1:40	Discussion	
1:45	Stuart Campbell (SNS)	Scientific Computing at the SNS: a Look at the Past, Present, and Future
2:15	Discussion	
2:20	Coffee	
2:50	Wrap-up discussion	
4:00	Finish	