

SSRL Summer School on Synchrotron X-Ray Absorption

Spectroscopy & Imaging

Monday, July 18 – Friday, July 22, 2016

EXAFS
Summer School

Monday, 18 July 2016, Building 48, Room 112 : Redwood Rooms

8:30 – 8:55 AM	Registration –Refreshments
8:55 – 9:00 AM	Introductory Remarks – Ritimukta Sarangi
9:00 – 10:00 AM	Introduction to XAS at SSRL – Britt Hedman
10:00 – 11:00 AM	Introduction to Theoretical Aspects of XAS/EXAFS – Matthew Newville
11:00 AM – 12:00 PM	Introduction to Experimental Aspects of XAS/EXAFS – John Bargar
12:00 – 1:00 PM	Lunch
1:00 – 2:00 PM	Application of EXAFS/XANES: Graham George
2:00 – 3:00 PM	XANES Measurements and Interpretation: Simon Bare
3:00 – 3:30 PM	Break – Group Photo
3:30 – 4:30 PM	Introduction to XAS Imaging: Sam Webb
4:30 – 5:00 PM	Macromolecular Crystallography at SSRL: Clyde Smith
5:00 – 5:30 PM	X-ray Scattering: Michael Toney
6:00 PM	School Dinner, Building 53, 2 nd floor patio

Tuesday, 19 July 2016, Building 48, Room 112 : Redwood Rooms

8:30 – 9:00 AM	Refreshments	
9:00 – 9:30 AM	Demystifying the Synchrotron Experience: Courtney Roach	
	EXAFS	XAS Imaging
9:30 AM – 10:30 AM	Experimental Design and Sample Preparation – Ryan Davis	Experimental Design and Sample Preparation – Sam Webb
	Beamline Hands-on Practical Sessions – Building 120, SSRL	
10:45 AM – 5:30 PM	BL 2-3: XAS Imaging Instructors: Sam Webb , Courtney Roach	BL 7-3: XAS/EXAFS Instructors: Erik Nelson , Matthew Latimer
	BL 9-3: XAS/EXAFS (Bio) Instructors: Riti Sarangi , Logan Giles	BL11-2: XAS/EXAFS (GI-XAS) Instructors: Juan Lezama , Ryan Davis
12:00 – 1:00 PM	Lunch	
3:00 – 3:15 PM	Refreshments (BL 9 Lounge Area)	

Wednesday, 20 July 2016, Beamline Hands-on Practical Sessions – Building 120, SSRL		
8:30 – 9:00 AM	Refreshments (BL 9 Lounge Area)	
	Beamline Hands-on Practical Sessions – Building 120, SSRL	
9:00 AM – 5:30 PM	BL 2-3: XAS Imaging Instructors: Sam Webb , Courtney Roach	BL 7-3: XAS/EXAFS Instructors: Erik Nelson , Matthew Latimer
	BL 9-3: XAS/EXAFS (Bio) Instructors: Riti Sarangi , Logan Giles	BL11-2: XAS/EXAFS (GI-XAS) Instructors: Juan Lezama , Ryan Davis
12:00 – 1:00 PM	Lunch	
3:00 – 3:15 PM	Refreshments (BL 9 Lounge Area)	

Thursday, 21 July 2016, Building 48, Room 112 : Redwood Rooms		
8:30 – 9:00 AM	Refreshments	
	EXAFS	XAS Imaging
9:00 AM – 10:00 AM	Principles of FEFF based data analysis: Riti Sarangi	Data Analysis Basics: Sam Webb
10:00 AM – 5:30 PM	Hands-on data analysis session using Athena/Artemis suite: Juan Lezama , Logan Giles	Hand-on data analysis: Sam Webb , Courtney Roach
12:00 – 1:00 PM	Lunch	
3:00 – 3:15 PM	Refreshments	

Friday, 22 July 2016, Building 48, Room 112 : Redwood Rooms		
8:30 – 9:00 AM	Refreshments	
9:00 – 10:00 AM	Electronic Structure Interpretation from XANES: Riti Sarangi	
10:00 – 11:00 AM	Combining Advanced Spectroscopy with XAS: Thomas Kroll	
11:00 – 12:00 PM	Proposal Writing and Result Reporting: Sharon Bone	
12:00 – 1:00 PM	Lunch	
	EXAFS	XAS Imaging
1:00 – 5:30 PM	1-on-1 EXAFS data analysis session: Riti Sarangi , John Bargar , Juan Lezama , Logan Giles	1-on-1 Imaging data analysis session: Sam Webb , Courtney Roach
3:00 – 3:15 PM	Refreshments	