

8th SSRL School on Synchrotron X-Ray Scattering Techniques in Materials
and Environmental Sciences: Theory and Application
Tuesday 21 June 2016 – Thursday 23 June 2016

Tuesday, 21 June 2016 Building 053, Trinity Conference Room (1350)	
8:00-8:50	Registration – <i>Coffee and Light Refreshments</i>
8:50-9:00	Introductory Remarks – Apurva Mehta
9:00-9:35	Introduction to Scattering and Reciprocal Space – Kevin Stone
9:35-10:05	What Does a Scattering Pattern Say About a Sample (Peak Shape, Position, Intensities)? – Apurva Mehta
10:05-10:35	Scattering Techniques and Geometries – Chris Tassone
10:35-10:50	Break
10:50-11:20	Small Angle X-Ray Scattering (SAXS) – Chris Tassone
11:20-12:00	X-Ray Diffraction: Structure Refinement – Kevin Stone
12:00-12:15	Group Photo
12:15-1:15	<i>Lunch</i>
1:15-2:15	Surface Diffraction and Reflectivity – Hans-Georg Steinrück
2:15-3:00	Thin Film Diffraction – Apurva Mehta
3-3:25	Break
3:25-4:25	Soft X-Ray Resonant Scattering – Jun-Sik Lee
4:25-5:25	X-Ray Imaging – Anna Wise

Wednesday, 22 June 2016 Building 053, Trinity Conference Room (1350)					
8:00-9:00	<i>Coffee and Light Refreshments</i>				
9:00-9:45	Introduction to Beamlines and Techniques – Chris Tassone				
9:45-10:15	Detector Zoology: What Are They and How to Choose? – Apurva Mehta				
10:15-10:30	Break				
10:30-11:30	Data Collection Strategies – Apurva Mehta				
11:30-12:00	Data Collection and Reduction Software – Kevin Stone				
12:00-12:30	Experimental Chambers – Doug Van Campen				
12:30-1:30	<i>Lunch</i>				
1:30-5:30	Beamline Hands-on Practical Sessions Part 1 – Building 120, SSRL Beamlines				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> BL1-5: Small Angle X-Ray Scattering Instructors: Chris Tassone and Karsten Bruening </td> <td style="width: 50%; vertical-align: top;"> BL2-1: X-Ray Reflectivity Instructors: Kevin Stone and Hans-Georg Steinrück </td> </tr> <tr> <td style="vertical-align: top;"> BL7-2: <i>In-Situ</i> Diffraction Instructors: Hongping Yan and Xiaodan Gu </td> <td style="vertical-align: top;"> BL11-3: Transmission Instructors: Tim Dunn and Stefan Oosterhout </td> </tr> </table>	BL1-5: Small Angle X-Ray Scattering Instructors: Chris Tassone and Karsten Bruening	BL2-1: X-Ray Reflectivity Instructors: Kevin Stone and Hans-Georg Steinrück	BL7-2: <i>In-Situ</i> Diffraction Instructors: Hongping Yan and Xiaodan Gu	BL11-3: Transmission Instructors: Tim Dunn and Stefan Oosterhout
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3:00-3:15	Break – <i>Light Refreshments Building 120, Beamline 9 Kitchen/Lounge</i>				

Thursday, 23 June 2016 Building 053, Trinity Conference Room (1350)				
8:00-9:00	<i>Coffee and Light Refreshments</i>			
	Data Analysis Methods			
	Building 053-4002	Building 053-2002	Building 053-3002	Building 053-4006
9:00-12:30	Small Angle X-Ray Scattering Analysis Chris Tassone and Karsten Bruening	Area Diffraction Analysis Tim Dunn, Stefan Oosterhout and Ron Pandolfi	Reflectivity Analysis Apurva Mehta and Hans-Georg Steinrück	Rietveld Refinement Kevin Stone and Laura Schelhas
12:30-1:30	<i>Lunch</i>			
1:30-5:00	Beamline Hands-on Practical Sessions Part 2 – Building 120, SSRL Beamlines			
	BL1-5: Small Angle X-Ray Scattering Instructors: Chris Tassone and Karsten Bruening		BL2-1: High Resolution Powder Diffraction (Capillary) Instructors: Kevin Stone and Laura Schelhas	
	BL7-2: Thin Film Diffraction Instructors: Apurva Mehta and Trevor Petach		BL11-3: Thin Films Instructors: Tim Dunn and Chris Takacs	
3:00-3:15	<i>Break – Light Refreshments Building 120, Beamline 9 Kitchen/Lounge</i>			
5:00-5:30	Close out session – Building 053, Berryessa Conference Room (2002)			