

SSRL Summer School on Synchrotron X-Ray Absorption Spectroscopy

June 10-14, 2013

BEGINNER SESSION

June 10th–Monday

Venue : Redwood Rooms

- 8:30 AM Welcome and Refreshments
- 8:55 AM Welcome *Ritimukta Sarangi/John Bargar*
- 9:00 AM Introduction to XAS/EXAFS at SSRL *Britt Hedman*
- 10:00 AM Introduction to Theoretical Aspects of XAS/EXAFS: *Scott Calvin*
- 11:00 AM Introduction to Experimental Aspects of XAS/EXAFS: *John Bargar*
- 12:00 PM **Lunch Break**
- 1:00 PM EXAFS/XANES Applications in Biology: *Graham George*
- 2:00 PM EXAFS/XANES Applications in Chemical Catalysis: *Dan Friebe*
- 3:00 PM **Tea Break**
- 3:15 PM EXAFS/XANES Applications in Environmental Sciences: *Gordon Brown*
- 4:15 PM Combining EXAFS with other Spectroscopy Techniques: *Vittal Yachandra*
- 5:15 PM End of Lectures

June 11th–Tuesday

Venue : SSRL, Beamlines 11-2, 7-3 and 4-1

- 8:30 AM Refreshments
- 9:00 AM Data collection (11-2 *Bargar/Lezama*, 7-3 *Sarangi/Krest*, 4-1 *Nelson/Davis*)
- 12:00 PM **Lunch Break**
- 1:00 PM Data collection (11-2 *Bargar/Lezama*, 7-3 *Sarangi/Krest*, 4-1 *Nelson/Davis*)
- 3:00 PM **Tea Break**
- 3:15 PM Data collection (11-2 *Bargar/Lezama*, 7-3 *Sarangi/Krest*, 4-1 *Nelson/Davis*)
- 5:15 PM Close Session

June 12th– Wednesday

Venue : Redwood Rooms

- 8:30 AM Refreshments
- 9:00 AM Basis of EXAFS Data Reduction: *Juan Lezama/Courtney Krest*
- 12:00 PM **Lunch Break**

1:00 PM Linear Combination Analysis: [Scott Calvin/ Courtney Krest](#)
3:00 PM **Tea Break**
3:15 PM Principal Component Analysis: [Scott Calvin/ Juan Lezama](#)
5:00 PM Close Session

6:00 PM Barbeque Dinner at the Quadrus Café – across Sand Hill road from SLAC

June 13th – Thursday

Venue : Redwood Rooms

8:30 AM Refreshments
9:00 AM Principles of FEFF based Data Fitting: [Scott Calvin](#)
9:45 AM Basic Data Analysis: [Scott Calvin/ Juan Lezama](#)
12:00 PM **Lunch Break**
1:00 PM Basic Data Analysis: [Scott Calvin/ Juan Lezama](#)
3:00 PM **Tea Break**
3:15 PM Advanced Data Analysis Session: [Scott Calvin/ Juan Lezama](#)
a) EXAFS data analysis of systems with complicated Multiple Scattering.
b) Systematic approach to EXAFS analysis of unknowns.
5:30 PM Close Session