

XAFS Short Course: Advanced Topics in XAFS Data Analysis and Modeling

November 5-7, 2015

Agenda

Thursday, November 5

8:15 am - 8:40 am	<i>Check-In/Breakfast</i>	Medical Bldg. 490, Large Conference Rm
8:40 am - 9:00 am	“Introduction” A. Frenkel, Yeshiva University	Medical Bldg. 490, Large Conference Rm

Session I – Advanced methods and tricks in EXAFS data analysis and modeling

9:00 am - 9:50 am	“Multiple-scattering analysis” Scott Calvin	Medical Bldg. 490, Large Conference Rm
9:50 am - 10:40 am	“Modeling of mono- and bi-metallic nanoparticles - I” Anatoly Frenkel	Medical Bldg. 490, Large Conference Rm
10:40 am - 11:00 am	<i>Coffee Break</i>	
11:00 am - 11:50 am	“Modeling of mono- and bi-metallic nanoparticles - II” Anatoly Frenkel	Medical Bldg. 490, Large Conference Rm
11:50 am - 1:00 pm	<i>Lunch (Be sure to pick up your lunch tickets before proceeding to cafeteria)</i>	Berkner Hall, Cafeteria
1:00 pm - 1:50 pm	“Analysis of polarization-dependent data” Joseph Woicik	Medical Bldg. 490, Large Conference Rm

Session II – Software demonstration and working examples

1:50 pm - 2:40 pm	“Multiple-scattering analysis: implementation and examples” Scott Calvin	Medical Bldg. 490, Large Conference Rm
2:40 pm - 3:30 pm	“Multiple data set fitting - I” Bruce Ravel	Medical Bldg. 490, Large Conference Rm
3:30 pm - 3:45 pm	<i>Coffee Break</i>	
3:45 pm - 4:35 pm	“Multiple data set fitting - II” Bruce Ravel	Medical Bldg. 490, Large Conference Rm
4:35 pm - 5:25 pm	“Analysis of bulk and nanoscale bimetallic alloys: implementation and examples” Anatoly Frenkel	Medical Bldg. 490, Large Conference Rm
5:25 pm - 6:00 pm	“Spectroscopy program at NSLS-II” Klaus Attenkofer	Medical Bldg. 490, Large Conference Rm
6:00 pm	<i>Dinner</i>	Berkner Hall, Cafeteria

Friday, November 6

8:15 am - 9:00 am	<i>Breakfast</i>	Medical Bldg. 490,
-------------------	------------------	--------------------

Large Conference Rm

Session III – Data analysis and modeling using linear chemometry methods

9:00 am - 9:30 am	“Introduction to Linear Algebra Methods of XAFS” Alain Michalowicz	Medical Bldg. 490, Large Conference Rm
9:30 am - 10:15 am	“Principles of Linear Combination Analysis (LCA)” Faisal Alamgir	Medical Bldg. 490, Large Conference Rm
10:15 am - 10:30 am	<i>Coffee Break and Group Photo</i>	
10:30 am – 11:30 am	“Principles of Principal Component Analysis (PCA)” Steve Wasserman	Medical Bldg. 490, Large Conference Rm
11:30 am – 12:15 pm	“Principles of Multivariate Curve Resolution – Alternating Least Squares (MCR-ALS)” Alain Michalowicz	Medical Bldg. 490, Large Conference Rm
12:15 pm – 1:15 pm	<i>Lunch (Be sure to pick up your lunch tickets before proceeding to cafeteria)</i>	Medical Bldg. 490, Large Conference Rm

Session IV – Software demonstrations and working examples

1:15 pm – 2:45 pm	“Demonstration of LCA” Faisal Alamgir	Medical Bldg. 490, Large Conference Rm
2:45 pm – 4:15 pm	“Demonstration of PCA” Steve Wasserman	Medical Bldg. 490, Large Conference Rm
4:15 pm - 4:45 pm	<i>Coffee Break</i>	
4:45 pm – 6:00 pm	“Demonstration of MCR-ALS” Alain Michalowicz	Medical Bldg. 490, Large Conference Rm
6:00 pm	<i>Dinner</i>	NSLS-II Bldg. 703, Large Conference Rm

Saturday, November 15

8:45 am - 9:30 am	<i>Breakfast</i>	Medical Bldg. 490, Large Conference Rm
-------------------	------------------	---

Session V – Practical data analysis session

9:30 am - 12:00 pm	Parallel sessions lead by course instructors.	Medical Bldg. 490, Large Conference Rm
12:00 pm - 1:00 pm	<i>Lunch</i>	Medical Bldg. 490, Large Conference Rm
1:00 pm - 4:00 pm	Parallel sessions lead by course instructors.	Medical Bldg. 490, Large Conference Rm
4:00 pm	Adjourn	