SCHEDULE FOR SATURDAY, JUNE 11, 2011

School participants arrive in Knoxville, TN, and check in at the Hilton Knoxville. Transportation provided from airport and dinner hosted by Oak Ridge National Laboratory.
[Move to Comfort Inn, Oak Ridge, on Sunday afternoon for the duration of School at ORNL.]

OAK RIDGE SCHOOL OPENING - SUNDAY, JUNE 12, 2011
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Sunday, June 12	Time/Date	Sunday, June 12 cont'd
8:30 am 9:30 - 11:30 am	***Depart hotels for ORNL*** ***Badging*** ***Safety Training (PFE)***	1:00 - 1:45 pm	***Lecture 1*** Interactions of X-rays & Neutrons with Matter I S. Sinha University of California San Diego
11:30 - 12:00 pm	Lunch	1:45 - 2:00 pm	Break
12:00 - 1:00 pm	***Welcome*** Thom Mason Laboratory Director Oak Ridge National Laboratory ***Opening Remarks*** Bryan Chakoumakos Group Leader, Single-Crystal Diffraction Neutron Scattering Science Div. Oak Ridge National Laboratory	2:00 - 2:45 pm	***Lecture 1 (Continued)*** Interactions of X-rays & Neutrons with Matter II
		2:45 - 3:00 pm	Break
		3:00 - 5:30 pm	Check in at Comfort Inn Hotel, Oak Ridge (Transportation provided from SNS)
		5:30 - 8:00 pm	**Dinner at Comfort Inn hosted by ORNL** **Free time for participants**

Program Week 1
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Monday June 13	Tuesday June 14	Wednesday June 15	Thursday June 16	Friday June 17	Saturday June 18
8:30 - 9:30 am	*Lecture 2* Interactions of X-rays & Neutrons with Matter III S. Sinha University of California San Diego	*Lecture 4 (Continued)* Inelastic Neutron Scattering II B. Gaulin McMaster University	*Lecture 8* Reflectivity C. Majkrzak National Institute of Standards and Technology	*Lecture 11* Neutron Generation and Detection J. Carpenter Argonne National Laboratory	*Lecture 14* Neutron Sources J. Rhyne Los Alamos National Laboratory	
9:30 - 9:45 am	Break	Break	Break & Group photo	Break	Break	
9:45 - 10:45 am	*Lecture 2 (Continued)* Interactions of X-rays & Neutrons with Matter IV	*Lecture 5* Neutron Polarization C. Majkrzak National Institute of Standards and Technology	*Lecture 9* Small Angle Scattering V. Urban Oak Ridge National Laboratory	*Lecture 12* Applications of Small Molecule Crystallography A. Beatty University of Missouri , St. Louis	*Lecture 15* Diffuse Scattering G. Ice Oak Ridge National Laboratory	
10:45 - 11:00 am	Break	Break	Break	Break	Break	
11:00 - 12:00 pm	*Lecture 3* Single Crystal Diffraction A. Schultz Argonne National Laboratory	*Lecture 6* Magnetic Scattering B. Gaulin McMaster University	*Lecture 10* Powder Diffraction A. Huq Oak Ridge National Laboratory	*Lecture 13* Materials Engineering T. Holden Northern Stress Technologies	*Lecture 16* Micro-Diffraction G. Ice Oak Ridge National Laboratory	*Participants depart for Argonne National Laboratory*
12:00 - 1:00 pm	Lunch	Lunch	Lunch	Lunch	Lunch	
1:00 - 3:00 pm	*Tours* SNS & CNMS	*Tours* HFIR & Graphite Reactor	**HFIR/SNS Experiments (15 Instruments)**	**HFIR/SNS Experiments (15 Instruments)**	**HFIR/SNS Experiments (15 Instruments)**	
3:30 - 4:30 pm	*Lecture 4* Inelastic Neutron Scattering I B. Gaulin McMaster University	*Lecture 7* Quasi-elastic Neutron Scattering K. Herwig Oak Ridge National Laboratory				
4:30 - 6:00 pm	**Dinner and Discussion**	**Dinner and Discussion**				
6:30 - 7:30 pm			**Dinner and Discussion**	**Dinner and Discussion**	**Close-out Dinner in the SNS Cafeteria**	

National School on Neutron and X-ray Scattering
Program Week 2: June 20-25, 2011

Argonne National Laboratory
Argonne, Illinois

Program Week 2
Advanced Photon Source (APS) Building 401 Auditorium

Time/Date	Monday June 20	Tuesday June 21	Wednesday June 22	Thursday June 23	Friday June 24	Saturday June 25
8:45 - 9:00 am	*Opening Remarks* Peter B. Littlewood Associate Laboratory Director, Physical Sciences and Engineering Argonne National Laboratory					
9:00 - 10:00 am	*Lecture 17* X-ray Generation/ Instrumentation D. M. Mills Argonne National Laboratory	*Lecture 19* X-ray Absorption Fine Structure (XAFS) B. Bunker Notre Dame University	*Lecture 22* X-ray Imaging C. J. Jacobsen Northwestern University	*Lecture 25* Surface Scattering P. Miceli Univ. of Missouri	*Lecture 28* High-pressure Techniques Dr. M. Guthrie, Carnegie Institution of Washington	*9:30 am - 12:30 pm Student Presentations*
10:00 - 10:15 am	Break	Break	Break	Break	Break	
10:15 - 11:15 am	*Lecture 17 (Continued)* X-ray Generation/ Instrumentation	*Lecture 19 (Continued)* X-ray Absorption Fine Structure (XAFS)	*Lecture 22 (Continued)* X-ray Imaging	*Lecture 25 (Continued)* Surface Scattering	*Lecture 29* Real/Reciprocal Space Complimentarity Amanda Petford-Long Argonne National Laboratory	*12:30 pm Student Closing Picnic*
11:15 - 11:30 am	Break	Break	Break	Break	Break	
11:30 - 12:30 pm	*Lecture 18* X-ray Detection P. Denes Lawrence Berkley NL	*Lecture 20* Magnetic Spectroscopy E. Arenholz Lawrence Berkley NL	*Lecture 23* X-ray Photon Correlation Spectroscopy Larry Lurio University of Northern Illinois	*Lecture 26* Nuclear Resonant Scattering E. Alp Argonne National Laboratory	*Lecture 30* Proposal Writing J. Lang Argonne National Laboratory	
12:30 - 1:30 pm	Lunch	Lunch	Lunch	Lunch	Lunch	
1:30 - 2:30 pm	*Lecture 18 (Continued)* X-ray Detection	*Lecture 21* Time Resolved Scattering D. Tiede Argonne National Lab	*Lecture 24* Pair Distribution Function Chris Benmore Argonne National Lab	*Lecture 27* Inelastic X-ray Scattering P. Abbamonte University of Illinois - UC	*1:45 - 5:30 pm Experiment Time D See "Experiments Schedule"*	*1:30 pm School Participants Depart for Home*
2:30 - 2:45 pm	Break	*Group Photo*	Break	Break		
2:45 - 6:45 pm	*Experiment Time A See "Experiments Schedule"*	*User Badging Optional Tour of APS, CNM or EMC Free Time*	*Experiment Time B See "Experiments Schedule"*	*Experiment Time C See "Experiments Schedule"*	*Reception/Banquet Argonne Guest House Building 460 6:00 pm - Reception 7:00 pm - Dinner*	
7:00 pm	**Dinner and Discussion**		**Dinner and Discussion**	**Dinner and Discussion**		