

SCHEDULE FOR SATURDAY, JUNE 19, 2010

School participants arrive in Oak Ridge, TN and check in at the Comfort Inn.

Dinner hosted by Oak Ridge National Laboratory.

OAK RIDGE SCHOOL OPENING - SUNDAY, JUNE 20, 2010

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

Time/Date	Sunday, June 20	Time/Date	Sunday, June 20
9:30 - 11:30	- Badging - Safety Training (PFE)	1:00 - 1:45	Lecture Neutron Science R. Pynn Indiana University, Bloomington
11:30 - 12:00	Lunch	1:45 - 2:00	Break
12:00 - 1:00	Welcome Dr. Ken W. Herwig Deputy Director Neutron Scattering Science Div. Oak Ridge National Laboratory Opening Remarks Dr. Bryan C. Chakoumakos Geoscientist High Flux Isotope Reactor (HFIR) Neutron Sciences Oak Ridge National Laboratory	2:00 - 2:45	Lecture Continued Neutron Science R. Pynn Indiana University, Bloomington
		2:45 - 3:00	Break
		3:00 - 6:30	Tours SNS, HFIR, and Graphite Reactor
		6:30 - 8:00	Dinner and Discussion

Program Week 2 - June 21-25, 2010
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Monday June 21	Tuesday June 22	Wednesday June 23	Thursday June 24	Friday June 25	Saturday June 26
8:30 - 9:30	Lecture Inelastic Neutron Scattering B. D. Gaulin McMaster University	Lecture Magnetic Scattering B. D. Gaulin McMaster University	Lecture Neutron Polarization C. F. Majkrzak National Institute of Standards and Technology	Lecture Single Crystal Diffraction A. J. Schultz Argonne National Laboratory	Lecture Diffuse Scattering G. E. Ice Oak Ridge National Laboratory	School participants depart for home
9:30 - 9:45	Break	Break	Break	Break	Break	
9:45 - 10:45	Lecture Continued Inelastic Neutron Scattering B. D. Gaulin McMaster University	Lecture Small Angle Scattering V. S. Urban Oak Ridge National Laboratory	Lecture Powder Diffraction Applications A. Huq Oak Ridge National Laboratory	Lecture Applications of Small Molecule Crystallography X. Wang Oak Ridge National Laboratory	Lecture Micro-Diffraction G. E. Ice Oak Ridge National Laboratory	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Quasi-elastic Neutron Scattering K. W. Herwig Oak Ridge National Laboratory	Lecture Reflectivity C. F. Majkrzak National Institute of Standards and Technology	Lecture Neutron Generation and Detection J. M. Carpenter Argonne National Laboratory	Lecture PDF Analysis C. J. Benmore Argonne National Laboratory	Lecture Writing Proposals for Neutron & X-ray Beamtime B. C. Chakoumakos J. D. Budai Oak Ridge National Laboratory	
12:00 - 12:45	Lunch	Lunch	Lunch	Lunch	Lunch	
12:45 - 1:45	Lecture Neutron Sources J. J. Rhyne Los Alamos National Laboratory	Lecture Materials Engineering T. M. Holden Northern Stress Technologies	Lecture Neutron Spin-Echo M. E. Ohl Forschungszentrum Jülich GmbH	Experiment Discussions	Student Presentations	
1:45 - 6:30	HFIR/SNS Experiments (12 Instruments)	HFIR/SNS Experiments (12 Instruments)	HFIR/SNS Experiments (12 Instruments)			
6:30 - 8:00	Dinner and Discussion	Dinner and Discussion	Dinner and Discussion	Dinner and Discussion	Dinner in the SNS Cafeteria & Social on the Patio	

SCHEDULE FOR SATURDAY, JUNE 12, 2010

School participants arrive at Argonne and check in at the Argonne Guest House, Building 460.

3:00 PM until 8:00 PM - Registration and informal get-together in Advanced Photon Source (APS) Building 401, Room A1100. Food and beverages will be provided. All School participants and program presenters are invited to attend.

ARGONNE SCHOOL OPENING - SUNDAY, JUNE 13, 2010 APS Building 401, Room A1100

Time/Date	Sunday, June 13	Time/Date	Sunday, June 13	Time/Date	Sunday, June 13
7:00 AM	Breakfast Buffet Argonne Guest House Restaurant	9:00 - 10:00	Lecture Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego	2:45 - 3:30	Lecture X-ray Detection P. P. Denes Lawrence Berkley National Laboratory
8:45 AM	Opening Remarks Dr. Harold W. Myron Director Division of Educational Programs Argonne National Laboratory Dr. Suzanne G.E. te Velthuis Physicist Materials Science Division Argonne National Laboratory Dr. Jonathan C. Lang Physicist X-ray Science Division Advanced Photon Source Argonne National Laboratory	10:00 - 10:15	Break	3:30 - 3:45	Break
		10:15 - 11:15	Lecture Continued Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California San Diego	3:45 - 4:30	Lecture Continued X-ray Detection P. P. Denes Lawrence Berkeley National Laboratory
		11:15 - 11:30	Break	4:30 - 4:45	Break
		11:30 - 12:30	Lecture X-ray Generation/Instrumentation D. M. Mills Argonne National Laboratory	4:45 - 6:00	Advanced Photon Source (APS) Tour
		12:30 - 1:30	Lunch	6:00 - 7:00	Dinner
		1:30 - 2:30	Lecture Continued X-ray Generation/Instrumentation D. M. Mills Argonne National Laboratory		

National School on Neutron and X-ray Scattering
June 12-26, 2010

Argonne National Laboratory
Argonne, Illinois

Program Week 1 - June 14-18, 2010
APS Building 401 Auditorium

Time/Date	Monday June 14	Tuesday June 15	Wednesday June 16	Thursday June 17	Friday June 18	Saturday June 19
8:30 - 8:40	Welcome to Argonne E. D. Isaacs, Director Argonne National Laboratory	Lecture X-ray Imaging C. J. Jacobsen Argonne National Laboratory/Northwestern University	Lecture X-ray Absorption Spectroscopy G. B. Bunker Illinois Institute of Technology	Lecture Surface X-ray Scattering T. C. Chiang University of Illinois at Urbana-Champaign	Lecture Real/Reciprocal Space Complimentarity J. M. Gibson Argonne National Laboratory	Bus Travel to Oak Ridge Bus departs Argonne Guest House - 9:00 AM
8:40 - 9:30	Lecture Continued Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego					
9:30 - 9:45	Break	Break	Break	Break	Break	
9:45 - 10:45	Lecture Continued Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego	Lecture Continued X-ray Imaging C. J. Jacobsen Argonne National Laboratory/Northwestern University	Lecture Continued X-ray Absorption Spectroscopy G. B. Bunker Illinois Institute of Technology	Lecture Continued Surface X-ray Scattering T. C. Chiang University of Illinois at Urbana-Champaign	Lecture Continued Real/Reciprocal Space Complimentarity J. M. Gibson Argonne National Laboratory	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Introduction to Powder Diffraction B. H. Toby Argonne National Laboratory	Lecture High Pressure Techniques W. Mao Stanford University	Lecture Time Resolved Spectros- copy L. X. Chen Argonne National Laboratory/Northwestern University	Lecture Magnetic Spectroscopy E. Fullerton University of California, San Diego	Lecture Inelastic X-ray Scattering P. M. Abbamonte University of Illinois at Urbana-Champaign	
12:00 - 1:15	Lunch	Group Photo/Lunch	Lunch	Lunch	Lunch	
1:30 - 2:30	Lecture XPCS L. B. Lurio Northern Illinois University	Free Afternoon in Chicago (Optional) Buses depart Argonne Guest House for down- town Chicago - 1:30 PM	Lecture Stress Strain Measure- ments I. C. Noyan Columbia University	Lecture Introduction to SAXS/ SANS D. W. Schaefer University of Cincinnati	X-ray Experiment 4 1:30-6:00 PM See Experiments Schedule	
2:30 - 2:45	Break		Break	Break		
2:45 - 7:00	X-ray Experiment 1 See Experiments Schedule	Buses depart downtown Chicago for Argonne Guest House - 8:00 PM	X-ray Experiment 2 See Experiments Schedule	X-ray Experiment 3 See Experiments Schedule	Week 1 Wrap-Up Picnic	Dinner at Oak Ridge