

SCHEDULE FOR SATURDAY, June 14, 2014

3:00 - 6:00 PM School participants arrive at Argonne and register at the Argonne Guest House, Building 460.

6:00 - 8:00 PM - Informal get-together Argonne Guest House. Food and beverages will be provided. All School participants and program presenters are invited to attend.

ARGONNE SCHOOL OPENING - SUNDAY, JUNE 15, 2014
APS Building 401, Room A1100

Time/Date	Sunday, June 15	Time/Date	Sunday, June 15	Time/Date	Sunday, June 15
8:30 AM	Breakfast Buffet Argonne Guest House Restaurant	9:45 - 10:45	Lecture Interaction of X-rays and Neutrons with Matter Roger Pynn University of Indiana	3:30 - 4:30	Lecture X-ray Detection Antonio Miceli Argonne National Laboratory
9:30 AM	Opening Remarks Dr. Stephen Streiffer Interim Director Advanced Photon Source Interim ALD Photon Sciences Argonne National Laboratory Dr. Suzanne G.E. te Velthuis Physicist Materials Science Division Argonne National Laboratory Dr. Ercan Alp Physicist X-ray Science Division Advanced Photon Source Argonne National Laboratory	10:45 - 11:00	Break	4:30 - 4:45	Break
		11:00 - 12:00	Lecture Continued Interaction of X-rays and Neutrons with Matter Roger Pynn University of Indiana	4:45 - 6:00	Advanced Photon Source (APS) Tour
		12:00 - 1:00	Lunch	6:00 - 7:00	Dinner
		1:00 - 2:00	Lecture X-ray Generation/Instrumentation Dennis M. Mills Argonne National Laboratory		
		2:00 - 2:15	Break		
		2:15 - 3:15	Lecture Continued X-ray Generation/Instrumentation Dennis M. Mills Argonne National Laboratory		
		3:15 - 3:30	Break		

National School on Neutron and X-ray Scattering
June 14-28, 2014

Argonne National Laboratory
Argonne, Illinois

Program Week 1 - June 16-21, 2014
APS Building 401 Room A1100

Time/Date	Monday June 16	Tuesday June 17	Wednesday June 18	Thursday June 19	Friday June 20	Saturday June 21
8:30 - 9:30	Lecture X-ray Imaging Chris Jacobsen Northwestern University/ Argonne National Lab	Lecture Single Crystal Diffraction Art Schultz Argonne National Lab	Lecture X-ray Abs. Spectroscopy Steve Heald Argonne National Lab	Lecture X-ray Raman Spectroscopy Mali Balasubramanian Argonne National Lab	Lecture Time Resolved Scattering Paul Evans Univ. of Wisconsin	Bus Travel to Oak Ridge Bus departs Argonne Guest House - 8:00 AM
9:30 - 9:45	Break	Break	Break	Break	Break	
9:45 - 10:45	Lecture Continued Interaction of X-rays and Neutrons with Matter Roger Pynn University of Indiana	Lecture Powder Diffraction Brian Toby Argonne National Lab	Lecture Applications of XAS in Life Sciences Ingrid Pickering Univ Saskatchewan	Lecture SAXS/SANS Dale Schaefer Univ. Cincinnati	Lecture Inelastic X-ray Scattering Ercan Alp Argonne National Laboratory	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Continued Interaction of X-rays and Neutrons with Matter Roger Pynn University of Indiana	Lecture X-ray Magnetic Dichroism Elke Arenholz Lawrence Berkeley National Laboratory	Lecture Coherence Based Imaging Ian McNulty Argonne National Lab	Lecture Polycrystalline Diffraction Robert Suter Carnegie Mellon University	Lecture High Pressure Applications of IXS Jennifer M. Jackson California Institute of Technology	
12:00 - 1:15	Lunch	Group Photo/Lunch	Lunch	Lunch	Lunch	
1:30 - 6:00	X-ray Experiment 1 (15 Instruments) See Experiments Schedule	Free Afternoon in Chicago (Optional) Buses depart Argonne Guest House for down- town Chicago - 1:30 PM Buses depart downtown Chicago for Argonne Guest House - 8:00 PM	X-ray Experiment 2 (16 Instruments) See Experiments Schedule	X-ray Experiment 3 (12 Instruments) See Experiments Schedule	X-ray Experiment 4 (11 Instruments) See Experiments Schedule	
6:00 - 7:00	Dinner		Dinner	Dinner	Dinner Week 1 wrap-up Picnic	Dinner at Oak Ridge

SCHEDULE FOR SATURDAY, June 21, 2014

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

Transportation provided from airport and dinner hosted by Oak Ridge National Laboratory.

OAK RIDGE SCHOOL OPENING - SUNDAY, June 22, 2014

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

Time/Date	Sunday, June 22	Time/Date	Sunday, June 22
9:30 - 11:30	-Badging -Safety Training (PFE)	1:00 - 1:45	Lecture Neutron Generation and Detection Jack M. Carpenter Argonne National Laboratory
11:30 - 12:15	Lunch	1:45 - 2:00	Break
12:15 - 1:00	Welcomes Opening remarks Dr. Rob McQueeney Deputy Associate Laboratory Director Oak Ridge National Laboratory Dr. Ramamoorthy Ramesh Deputy Laboratory Director Oak Ridge National Laboratory Dr. Bryan C. Chakoumakos Group Leader Structure of Matter Quantum Condensed Matter Div. Oak Ridge National Laboratory	2:00 - 2:45	Lecture Neutron optics and Instrumentation Bill Hamilton Oak Ridge National Laboratory
		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 23-28, 2014
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Monday June 23	Tuesday June 24	Wednesday June 25	Thursday June 26	Friday June 27	Saturday June 28
8:30 - 9:30	Lecture Quasi-elastic Neutron Scattering Ken W. Herwig Oak Ridge National Laboratory	Lecture Magnetic Scattering Bruce Gaulin McMaster University	Lecture PDF Analysis Thomas Proffen Oak Ridge National Laboratory	Lecture Materials Engineering Tom Holden Northern Stress Technologies	Lecture Diffuse Scattering Gene E. Ice Oak Ridge National Laboratory	School participants depart for home
9:30 - 9:45	Break / Group Photo	Break	Break	Break	Break	
9:45 - 10:45	Lecture Inelastic Neutron Scattering Bruce Gaulin McMaster University	Lecture Reflectivity Chuck F. Majkrzak National Institute of Standards and Technology	Lecture Applications of Small Angle Scattering Volker S. Urban Oak Ridge National Laboratory	Lecture Powder Diffraction Applications Clarina de la Cruz Oak Ridge National Laboratory	Lecture Micro-Diffraction Gene E. Ice Oak Ridge National Laboratory	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Continued Inelastic Neutron Scattering Bruce Gaulin McMaster University	Lecture Neutron Polarization Chuck F. Majkrzak National Institute of Standards and Technology	Lecture Imaging with Neutrons Hassina Bilheux Oak Ridge National Laboratory	Lecture Writing Proposals for Neutron & X-ray Beamtime John D. Budai Oak Ridge National Laboratory	Presentation preparation	
12:00 - 12:45	Lunch	Lunch	Lunch	Lunch	Lunch	
12:45 - 6:30	HFIR/SNS Experiment 1 (17 Instruments) See Experiments Schedule	HFIR/SNS Experiment 2 (17 Instruments) See Experiments Schedule	HFIR/SNS Experiment 3 (17 Instruments) See Experiments Schedule	HFIR/SNS Experiment 4 (17 Instruments) See Experiments Schedule	Student Presentations	
					Break Student Presentations	
6:30 - 8:00	Dinner and Discussion	Dinner and Discussion	Dinner and Discussion	Dinner and Discussion	Dinner & social in the SNS lobby / Auditorium	