

17<sup>th</sup> National School on Neutron and X-ray Scattering  
June 13-27, 2015

SCHEDULE FOR SATURDAY, June 13, 2015

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 14, 2015  
APS Building 401, Room A1100

Time/Date	Sunday, June 14	Time/Date	Sunday, June 14	Time/Date	Sunday, June 14
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. Brian Toby Senior 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		

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Program Week 1 - June 15-20, 2015  
APS Building 401 Room A1100

Time/Date	Monday June 15	Tuesday June 16	Wednesday June 17	Thursday June 18	Friday June 19	Saturday June 20
8:30 - 9:30	Lecture Continued Interaction of X-rays and Neutrons with Matter Roger Pynn University of Indiana	Lecture Single Crystal Diffraction Christine Beavers Advanced Light Source	Lecture X-ray Abs. Spectroscopy I Grant Bunker Illinois Institute of Technology	Lecture SAXS/SANS Dale Schaefer University of Cincinnati	Lecture Coherence Based Imaging David Vine Argonne National Laboratory	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 Polycrystalline Diffraction Matt Miller Cornell/CHESS	Lecture Continued X-ray Abs. Spectroscopy II Grant Bunker Illinois Institute of Technology	Lecture X-ray Magnetic Dichroism Elke Arenholz Lawrence Berkeley National Laboratory	Lecture Time Resolved Scattering Paul Evans University of Wisconsin	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Inelastic X-ray Scattering Ercan Alp Argonne National Laboratory	Lecture Powder Diffraction Brian Toby Argonne National Lab	Lecture Applications of XAS in Life Sciences Ingrid Pickering University of Saskatchewan	Lecture X-ray Imaging Chris Jacobsen Northwestern University/ Argonne National Lab	Lecture High Pressure Applications Haozhe Liu HPSTAR Changchun Branch	
12:00 - 1:15	Lunch	Group Photo/Lunch	Lunch	Lunch	Lunch	
1:30 - 6:00	X-ray Experiment 1 (13 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 (14 Instruments)  See Experiments Schedule	X-ray Experiment 3 (13 Instruments)  See Experiments Schedule	X-ray Experiment 4 (12 Instruments)  See Experiments Schedule	
6:00 - 7:00	Dinner		Dinner	Dinner	Dinner Week 1 wrap-up Picnic	Dinner at Oak Ridge

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SCHEDULE FOR SATURDAY, June 20, 2015

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 21, 2015

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

Time/Date	Sunday, June 21	Time/Date	Sunday, June 21
9:30 - 11:30	-Badging -Safety Training (PFE)	1:00 - 1:45	Lecture Neutron Generation and Detection Lee Robertson Oak Ridge National Laboratory
11:30 - 12:15	Lunch	1:45 - 2:00	Break
12:15 - 1:00	Welcomes  Opening remarks  Dr. Paul Langan Associate 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 Lee Robertson 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

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Program Week 2 - June 22-27, 2015  
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Monday June 22	Tuesday June 23	Wednesday June 24	Thursday June 25	Friday June 26	Saturday June 27
8:30 - 9:30	Lecture Quasi-elastic Neutron Scattering Ken W. Herwig Oak Ridge National Laboratory	Lecture Magnetic Scattering Collin Broholm Johns Hopkins University	Lecture PDF Analysis Thomas Proffen Oak Ridge National Laboratory	Lecture Materials Engineering Don Brown Los Alamos National Laboratory	Lecture Diffuse Scattering Ray Osborn Argonne 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 Rob McQueeney Oak Ridge National Laboratory	Lecture Reflectivity Chuck F. Majkrzak National Institute of Standards and Technology	Lecture Applications of Small Angle Scattering William Heller Oak Ridge National Laboratory	Lecture Timmy Ramirez-Cuesta Neutron Vibrational Spectroscopy Oak Ridge National Laboratory	Lecture Writing Proposals for Neutron & X-ray Beamtime John D. Budai Oak Ridge National Laboratory	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Continued Inelastic Neutron Scattering Rob McQueeney Oak Ridge National Laboratory	Lecture Neutron Polarization Chuck F. Majkrzak National Institute of Standards and Technology	Lecture Imaging with Neutrons Hassina Bilheux Oak Ridge National Laboratory	Lecture Powder Diffraction Applications Ashfia Huq Oak Ridge National Laboratory	Presentation preparation	
12:00 - 12:45	Lunch	Lunch	Lunch	Lunch	Lunch	
12:45 - 6:30	HFIR/SNS Experiment 1 (16 Instruments)  See Experiments Schedule	HFIR/SNS Experiment 2 (16 Instruments)  See Experiments Schedule	Excursions ORNL Additive Manufacturing Facility / UTK Scintillator Materials Research Center	HFIR/SNS Experiment 3 (16 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	