

19th National School on Neutron and X-ray Scattering
August 5-19, 2017

SCHEDULE FOR SATURDAY, August 5, 2017

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, August 6, 2017
APS Building 401, Room A1100

Time/Date	Sunday, August 6	Time/Date	Sunday, August 6	Time/Date	Sunday, August 6
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	3:45 - 4:45	APS Tour
9:30 AM	Opening Remarks Dr. Stephen Streiffer 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	
		11:00 - 12:00	Lecture Continued Interaction of X-rays and Neutrons with Matter Roger Pynn University of Indiana	4:45 - 6:00	
		12:00 - 1:15	Lunch	6:00 - 7:00	Dinner
		1:15 - 2:15	Lecture Surface/Interface Scattering Paul Zshack NSLS-II, Brookhaven National Laboratory		
		2:15 - 2:30	Break		
		2:30 - 3:30	Lecture X-ray Detection Antonio Miceli Argonne National Laboratory		
		3:30 - 3:45	Break		

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Program Week 1 – August 7-12, 2017
APS Building 401 Room A1100

Time/Date	Monday August 7	Tuesday August 8	Wednesday August 9	Thursday August 10	Friday August 11	Saturday August 12
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 Laurence Berkeley National Lab	Lecture X-ray Abs. Spectroscopy I Grant Bunker Illinois Institute of Technology	Lecture SAXS/SANS II Dale Schaefer University of Cincinnati	Lecture Coherence Based Imaging Ross Harder Argonne National Laboratory	Bus Travel to Oak Ridge Bus departs Argonne Guest House - 8:00 AM Dinner at Oak Ridge
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 Cora Lind-Kovacs University of Toledo	Lecture Continued X-ray Abs. Spectroscopy II Grant Bunker Illinois Institute of Technology	Lecture XPCS Andrei Fluerașu NSLS-II/Brookhaven	Lecture X-ray Transient Spectroscopy and Scattering Lin Chen Argonne National Laboratory	
10:45 - 11:00	Break	Break	Break	Break	Break	
11:00 - 12:00	Lecture Inelastic X-ray Scattering Ercan Alp Argonne National Laboratory	Lecture Polycrystalline Diffraction Matt Miller Cornell/CHESS	Lecture SAXS/SANS I Dale Schaefer University of Cincinnati	Lecture X-ray Imaging Stefan Vogt Argonne National Laboratory	Lecture X-ray Magnetic Dichroism Elke Arenholz Lawrence Berkeley National Laboratory	
12:00 - 1:15	Lunch	Lunch	Lunch	Lunch	Lunch	
1:30 - 2:30	Lecture X-ray Generation & Instrumentation Dennis M. Mills Argonne National Laboratory	X-ray Experiment 2 (14 Instruments) See Experiments Schedule	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	
2:30 - 3:00	Group Photo & Break					
3:00 - 4:00	Lecture Continued X-ray Generation & Instrumentation Dennis M. Mills Argonne National Laboratory					
3:45 - 6:00	Break					
6:00 - 7:00	Dinner	Dinner	Dinner	Dinner	Dinner: Week 1 wrap-up Picnic	

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SCHEDULE FOR SATURDAY, August 12, 2017

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, August 13, 2017

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

Time/Date	Sunday, August 13	Time/Date	Sunday, August 13
9:30 - 11:30	-Badging -Safety Training (PFE)	1:00 - 1:45	Lecture Neutron Generation and Detection/Neutron Optics and Instrumentation Lee Robertson Oak Ridge National Laboratory
11:30 - 12:15	Lunch	1:45 - 2:00	Break
12:15 - 1:00	Welcomes Opening remarks Dr. Alan Tennant Director, Shull-Wollan Center Oak Ridge National Laboratory Dr. Bryan C. Chakoumakos Group Leader Structure of Matter Quantum Condensed Matter Div. Oak Ridge National Laboratory Brad O'Dell Graduate Student/Post-doctoral Representative to the Spallation Neutron Source / High Flux Isotope Reactor User Group (SHUG)	2:00 - 2:45	Lecture Quasi-elastic Neutron Scattering Ken W. Herwig 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 – August 14-19, 2017
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

Time/Date	Monday August 14	Tuesday August 15	Wednesday August 16	Thursday August 17	Friday August 18	Saturday August 19
8:30 - 9:30	Lecture Inelastic Neutron Scattering Bruce Gaulin McMaster University	Lecture Reflectivity Chuck F. Majkrzak National Institute of Standards and Technology	Lecture Neutron Spin Echo Spectroscopy Piotr A. Zolnierczuk, Julich Centre for Neutron Science	Lecture Materials Engineering Mark Bourke 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 Bruce Gaulin McMaster University	Lecture Neutron Polarization Chuck F. Majkrzak National Institute of Standards and Technology	Lecture Imaging with Neutrons Lou Santodonato Oak Ridge National Laboratory	Lecture High Pressure Applications Barbara Lavina University of Nevada, Las Vegas	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 Magnetic Scattering Bruce Gaulin McMaster University	Lecture PDF Analysis Kate Page Oak Ridge National Laboratory	Lecture Luke Daemen Neutron Vibrational Spectroscopy 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 (20 Instruments) See Experiments Schedule	HFIR/SNS Experiment 2 (20 Instruments) See Experiments Schedule	tour of Manufacturing Demonstration Facility (limit 60 students) Bus departure: 1:20 PM returns to Comfort Inn after tour	HFIR/SNS Experiment 3 (20 Instruments) See Experiments Schedule	Student Presentations	
					Break	Student Presentations
6:30 - 8:00	Dinner and Discussion	Dinner and Discussion	Melton Hill Lake picnic Bus departure from Comfort Inn: 6:00 PM	Dinner and Discussion	Dinner & social in the SNS lobby / Auditorium	