

National School on Neutron and X-ray Scattering  
August 15-29, 2004

Building 223 Auditorium, Room B002  
Argonne National Laboratory  
Argonne, Illinois

Sunday, August 15

3:00 p.m. until 7:00 p.m. - An informal get together is scheduled in the Lodging Facility Exchange Club located in the lower level of Building 617. Food and beverages will be provided. All School participants and program presenters are invited to attend.

**SCHEDULE FOR SCHOOL OPENING - Monday, August 16, 2004**

Time/Date	Monday August 16
7:45 -	Bus to transport students from Building 617 (Lower Level) to Building 223
8:00 - 9:00	<b>Registration and Continental Breakfast</b> (Foyer of Building 223 Auditorium)
9:00	<b>Opening Remarks</b> Dr. Donald Joyce Deputy Laboratory Director Argonne National Laboratory  <b>Welcome</b> Dr. Harold W. Myron Director Division of Educational Programs Argonne National Laboratory  Dr. Raymond Osborn Physicist Materials Science Division Argonne National Laboratory  Dr. Dean R. Haeffner Group Leader/Physicist Experimental Facilities Division Advanced Photon Source Argonne National Laboratory
9:10 - 10:00	<b>Lecture</b> Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego and Los Alamos National Laboratory  (1)

10:00 - 10:30	Break
10:30 - 11:30	<b>Lecture Continued</b> Interaction of X-rays and Neutrons with Matter  (1)
11:30 - 12:00	Group Photo
12:00 - 1:00	Lunch
1:00 - 2:00	<b>Lecture</b> X-ray Generation/Detection D. M. Mills Argonne National Laboratory  (2)
2:00 - 2:15	Break
2:15 - 3:15	<b>Lecture Continued</b> X-ray Generation/Detection  (2)
3:15 - 3:30	Break
3:30 - 5:30	<b>Safety Training/Tour</b> IPNS Safety Training (Building 360, Room L119) IPNS Tour
6:00	Shopping Bus

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Program - Week 1

Time/Date	Tuesday August 17	Wednesday August 18	Thursday August 19	Friday August 20	Time/Date	Saturday August 21	Sunday August 22
8:30 - 9:30	<b>Lecture Continued</b> Interaction of X-rays and Neutrons with Matter S. K. Sinha University of California, San Diego and Los Alamos National Laboratory (1)	<b>Lecture</b> Neutron/Generation Detection T. E. Mason Oak Ridge National Laboratory (4)	<b>Lecture</b> Small Angle Scattering G. G. Long Argonne National Laboratory (6)	<b>Lecture</b> Inelastic Scattering B. D. Rainford University of Southampton (8)	9:00 - 10:00	<b>Lecture</b> Powder Diffraction J. J. Rhyne Los Alamos National Laboratory (10)	<b>Free Time</b>
9:30 - 9:45	Break	Break	Break	Break	10:00 - 10:15	Break	
9:45 - 10:45	<b>Lecture Continued</b> Interaction of X-rays and Neutrons with Matter (1)	<b>Lecture Continued</b> Neutron/Generation Detection (4)	<b>Lecture Continued</b> Small Angle Scattering (6)	<b>Lecture Continued</b> Inelastic Scattering (8)	10:15 - 11:15	<b>Lecture Continued</b> Powder Diffraction (10)	
10:45 - 11:00	Break	Break	Break	Break	11:15 - 11:30	Break	
11:00 - 12:00	<b>Lecture</b> Neutron Instrumentation T. E. Mason Oak Ridge National Laboratory (3)	<b>Lecture</b> X-ray Instrumentation D. M. Mills Argonne National Laboratory (5)	<b>Lecture</b> Single Crystal Diffraction T. F. Koetzle Argonne and Brookhaven National Laboratories (7)	<b>Free Time</b>	11:30 - 12:30	Lunch	
12:00 - 12:15	Break	Break	Break	Break	12:30 - 6:30	<b>Experiment 2B</b> See attached "Experiments Schedule"	
12:15 - 1:15	Lunch	Lunch	Lunch	Lunch			
1:15 - 2:15	<b>Lecture Continued</b> Neutron Instrumentation (3)	<b>Lecture Continued</b> X-ray Instrumentation (5)	<b>Lecture Continued</b> Single Crystal Diffraction (7)	<b>Lecture</b> Neutron Sources J. J. Rhyne Los Alamos National Laboratory (9)			
2:15 - 2:45		Break	Break	Break			
2:15 - 5:30	Break <b>Safety Training/Tour</b> APS Safety Training APS Tour CD Introduction						
2:45 - 9:30		<b>Experiment 1 Introduction</b>  <b>Experiment 1A</b> See attached "Experiments Schedule"	<b>Experiment 1B</b> See attached "Experiments Schedule"	<b>Experiment 2 Introduction</b>  <b>Experiment 2A</b> See attached "Experiments Schedule"	6:30	<b>Picnic</b> Building 603 area by swimming pool	

