

1<sup>st</sup> National Neutron Scattering School  
September 5<sup>th</sup> – September 13<sup>th</sup>, 2025

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SCHEDULE FOR Friday, September 5<sup>th</sup>, 2025

Arrival to TYS throughout the day

6:30 - 8:30 PM – Informal get-together at Oak Ridge Hotel. Buffet and beverages for all school participants. Participants will pick up their badges for ORNL site access. **Please bring Real ID and any other necessary documents to dinner.** If for some reason, you are unable to get your badge, you may do so on Saturday morning.

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Oak Ridge SCHOOL OPENING - SATURDAY, September 6<sup>th</sup>, 2025  
Spallation Neutron Source (SNS) Building 8600, Iran Thomas Auditorium, Room A103

1<sup>st</sup> National Neutron Scattering School  
September 6<sup>th</sup> – September 12<sup>th</sup>, 2025

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

Saturday September 6 <sup>th</sup>	Saturday September 6 <sup>th</sup>	Sunday September 7 <sup>th</sup>
<b>7:45 am</b> <b>Bus departs Hotel</b>		<b>7:45 am</b> <b>Bus departs Hotel</b>
8:30-9:00 Badging – front lobby	2:35 – 3:35 Interaction Neutrons with Matter I Roger Pynn University of Indiana	Lecture (8:30 – 9:30) Interaction of Neutrons with Matter II Rana Ashkar Virginia Tech
9-9:30 Training Video – Iran Thomas		
9:30-10:00 Hands on training – breakout rooms		
		Break (9:30 – 9:50)
10:00-10:45  Welcome Jon Taylor and Organizing committee	3:35-6:05	Lecture (9:50 – 10:50) Interaction of Neutrons with Matter III Efrain Rodriguez University of Maryland
Break (10:45 – 11:05)		Break (10:50 – 11:10)
Lecture (11:05 – 12:00)  Neutron User Facilities Mark Lumsden, ORNL	Tour #1 and #2	Lecture 11:10-12:00  Single Crystal Diffraction William Ratcliff, NIST
Lunch (12:00 – 1:15)		Lunch (12:00 – 1:15)
1:15 – 2:15  Neutron Generation, Optics, Detection, and Instrumentation Thomas Huegle, ORNL		Lecture (1:15 – 2:15) Powder Diffraction Ally Fry-Petit Cal State Fullerton
		Break (2:15-2:35)
		Lecture (2:35-3:35)  Neutron Imaging Yuxuan Zhang, ORNL Hassina Bilheux, ORNL Jean Bilheux, ORNL
		Break (3:35-4:00)
		4:00-5:15  Tour #3
Break 2:15-2:35	6:05-7:15 Dinner and Discussion <b>Buses depart ORNL for hotel at 7:15 pm</b>	5:15 – 6:30 Dinner and Discussion <b>Buses depart ORNL for hotel at 6:30 pm</b>

Monday September 8 <sup>th</sup>	Tuesday September 9 <sup>th</sup>	Wednesday September 10 <sup>th</sup>	Thursday September 11 <sup>th</sup>	Friday September 12 <sup>th</sup>	Saturday September 13 <sup>th</sup>
<b>7:45 am Bus departs Hotel</b>	<b>7:45 am Bus departs Hotel</b>	<b>7:45 am Bus departs Hotel</b>	<b>7:45 am Bus departs Hotel</b>	<b>7:45 am Bus departs Hotel</b>	
Lecture (8:30 – 9:30) Neutron Spectroscopy Bruce Gaulin McMaster University	Lecture (8:30 – 9:30) Small Angle Neutron Scattering Lisa Debeer-Schmitt. ORNL	Lecture (8:30 – 9:15)  Diffuse Scattering Joe Paddison, ORNL	Lecture (8:30 – 9:15) Vibrational Spectroscopy Yongqiang Cheng, ORNL	8:30-12:30  HFIR/SNS Experiment 4 (xx Instruments) See Experiments Schedule	Departure for travel home
Group Photo (9:30 – 9:50)	Break (9:30 – 9:50)	Break (9:15 – 9:35)	Break (9:15 – 9:35)		
Lecture (9:50 – 10:50) Neutron Spectroscopy II Bruce Gaulin McMaster University	Lecture (9:50 – 10:40)  PDF Kate Page, UTK	Lecture (9:35 – 10:35)  Neutron Reflectivity Tim Charlton and Hanyu Wang ORNL	Lecture (9:35 – 10:20) Quasi-elastic Neutron Scattering Niina Jalarvo, ORNL		
Break (10:50 – 11:10)	Break (10:40 – 11:00)	Break (10:35 – 11:00)	Break (10:20 – 10:40)		
Lecture (11:10 – 12:00)  Magnetic Scattering Pat Clancy McMaster University	Lecture (11:00 – 12:00)  In situ / in operando  Jiu Liu and Cheng Li ORNL	Lecture (11:00 – 12:00)  Neutron Polarization  Barry Winn + posters ORNL	Lecture (10:40- 11:25) Engineering Diffraction Donald Brown, LANL		
			Break (11:25 – 11:45) Lecture (11:45 – 12:30) Non – equilibrium – C. Hoffman + posters ORNL		
Lunch (12:00 – 1:15)	Lunch (12:00 – 1:15)	Lunch (12:00 – 1:00)	Lunch (12:30 – 1:30)	Lunch (12:30 – 1:45)	
1:15 – 5:45  HFIR/SNS Experiment 1 (xx Instruments)  See Experiments Schedule	1:15 – 5:45  HFIR/SNS Experiment 2 (xx Instruments)  See Experiments Schedule	Lecture (1:00 – 1:45)  Machine Learning and AI for Scattering Experiments Thomas Proffen, ORNL	1:30 – 6:00  HFIR/SNS Experiment 3 (xx Instruments)  See Experiments Schedule	Lecture (1:45-2:30)  Neutron Spin Echo Jason Gardener, ORNL	
		Break (1:45 – 2:00)		Break (2:30 – 2:50)	
		Lecture (2:00 – 2:50) Scattering in extreme conditions Antonio Moreira dos Santos ORNL		Lecture (2:50 – 3:50)  Diffraction and Spectroscopy at TOF vs Continuous Sources Stuart Calder, ORNL Garrett Granroth, ORNL	
		Break (2:50 – 3:10)		Break (3:50 – 4:10)	
		3:10 – 4:10 Proposal writing Michelle Dolgos ORNL		4:10-5:00 Career Panel	
		Bus Trip from ORNL to Oak Ridge hotel to picnic venue (4:10 – 5:30)		5:00 Quick Thank you & Farewell	
5:45 – 7:00 Dinner and Discussion <b>Buses depart ORNL for hotel at 7 pm</b>	5:45 – 7:00 Dinner and Discussion <b>Buses depart ORNL for hotel at 7:00 pm</b>	5:30 – 7:30 Melton Hill Lake Picnic <b>Buses depart picnic for Hotel at 7:30 pm</b>	6:00 – 7:00 Dinner & Discussion <b>Buses depart ORNL for hotel at 7:00 pm</b>	5:00 – 7:30 Dinner & Social at SNS Hosts: Mary Odom, Michelle Everett, ORNL <b>Buses depart ORNL for hotel at 7:30 pm</b>	