NEUTRON SCIENCES 2023 USER MEETING AGENDA June 5th - June 8th

Keynote Speakers



Linda Horton Associate Director of Science for Basic Energy Sciences Department of Energy



Sossina Haile

Northwestern University



Collin Broholm Johns Hopkins University



Raquel Lieberman Georgia Institute of Technology



Norman Wagner University of Delaware



Allyson Fry-Petit California State University, Fullerton

2023 USER MEETING AGENDA

NEUTRON SCIENCES

Monday, June 5 - Workshop Day 1		
8:00 a.m.	Check in and badging Location: SNS 8600, first floor lobby	
9:00 a.m 5 p.m.	Workshop 1: Data processing of neutron total scattering and how to avoid potential pitfalls along the way Organizers: Yuanpeng Zhang, Matt Tucker Location: HFIR 7995, Room 302B (meet in 8600 for registration and bus to HFIR)	
9:00 a.m 7:30 p.m.	Workshop 2: Magnetic Structure Determination from Neutron Diffraction Data Using GSAS-II Organizers: Stuart Calder, Ovi Garlea, Huibo Cao, Keith Taddei, Qiang Zhang Location: SNS 8600, C-156	
9:00 a.m 5:30 p.m.	Workshop 3: Single Crystal Data Processing for Direct Geometry SpectrometersOrganizers: Raphael Hermann, Martin Mourigal, Garrett Granroth, Barry Winn, YQ Cheng, AndreiSavici, Jon TaylorLocation: ORNL cabin (meet in 8600 for registration and carpooling)	

Tuesday, June 6 - User Meeting Day 1		
8:00 a.m.	Check in and badging Location: SNS 8600, first floor lobby Welcome and Plenary Session A (Iran Thomas Auditorium)	
9:00 a.m 12:15 p.m.		
9:00 a.m.	Welcome Igor Zaliznyak, SHUG Executive Committee Chair Brookhaven National Laboratory DOE Office of Science Update Linda Horton, Associate Director of Science for Basic Energy Sciences, Department of Energy	
9:30 a.m.	ORNL Neutron Sciences Facility updates Ken Andersen, Associate Laboratory Director for Neutron Sciences John Galambos, Proton Power Upgrade Director Rob Dimeo, HFIR Upgrade Project Director Hans Christen, Neutron Scattering Division Director	
10:10 a.m.	Break - Posters about HFIR/SNS capabilities and updates on display in the lobby	
10:20 a.m.	Keynote 1: The Science and Technology of Oxyanion Based Superprotonic Conductors Sossina Haile, Walter P. Murphy Professor of Materials Science and Engineering and Professor of Applied Physics, Northwestern University	
11:10 a.m.	Keynote 2: Stroboscopic neutron scattering and magnetic relaxation in spin ice Collin Broholm, Gerhard H. Dieke Professor of Physics and Astronomy, Johns Hopkins University	
12:00 p.m.	Group Photo, Iran Thomas Auditorium Stage	
12:15 p.m.	Working lunch: Table Topics on software and data analysis Location: SNS 8600, ground floor patio	

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1:30- 3:30 p.m.	PARALLEL SESSIONS		
	Iran Thomas Auditorium	Room C-156	
	Quantum Materials Moderator: Ben Frandsen, Brigham Young University	Biology & Life Sciences Moderator: Amy Xu, Louisiana State University	
1:30 p.m.	Despina Louca, University of Virginia	Andrew Stephen, Frederick National Laboratory for Cancer Research	
1:50 p.m.	Pengcheng Dai, Rice University	Frederick Heberle, University of Tennessee	
2:10 p.m.	Sara Haravifard, Duke University	Nayomi Plaza, USDA Forest Service	
	Functional/Energy Materials Moderator: Julia Zaikina, Iowa State University	Polymers, Colloids & Complex Fluids Moderator: Yun Liu, NIST Center for Neutron Research	
2:30 p.m	Olivier Delaire, Duke University	Jacinta Conrad, University of Houston	
2:50 p.m.	Jesse Brown, Oak Ridge National Laboratory	Ryan Murphy, NIST Center for Neutron Research	
3:10 p.m.	Zhenzhen Yu, Colorado School of Mines	Xiaodan Gu, University of Southern Mississippi (Virtual Talk)	
3:30 p.m.	Break - Posters about HFIR/SNS capabilities and updates on display in the lobby		
4:00 p.m.	Town Hall Meeting on Scientific Computing Capa	Town Hall Meeting on Scientific Computing Capabilities	
5:00 p.m.	SNS Tours — Meet in Building SNS 8600, lobby HFIR Tours — Vans outside main entrance of SNS Building 8600		
6:00 p.m.	Poster Reception (heavy hors d'oeuvres) Location: SNS 8600 ground floor		
7:30 p.m.	Close		

Wednesday, June 7 - User Meeting Day 2				
9:00 a.m 12:15 p.m.	WELCOME AND PLENARY SESSION A (IRAN THOMAS AUDITORIUM)			
9:00 a.m.	Welcome			
9:10 a.m.	Keynote 3: Solution structures of an intramembrane aspartyl protease and its lipid bilayer environment obtained via SANS Raquel Lieberman, Professor of Chemistry & Biochemistry, Georgia Institute of Technology			
10:00 a.m.	Break - Posters about HFIR/SNS capabilities and updates on display in the lobby			
10:10 a.m.	Keynote 4: Investigating the stability of monoclonal antibodies in solution and at interfaces using NSE, NR, & SANS with applications in formulation science. Norman Wagner, Unidel Robert L. Pigford Chair in Chemical & Biomolecular Engineering, University of Delaware			
11:00 a.m.	Second Target Station Update Ken Herwig, STS Technical Director, Oak Ridge National Laboratory			

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11.20	Sample Environment Parallel Town Hall Meeting	Is Location:	
11:30 a.m.			
	High temperature - Matthias Frontzek		
	Sample changer – Melanie Kirkham	C-156	
	Polarization – Barry Winn	C-464	
	Low-Temperature and Magnets – Stua		
	High Pressure – Yan Wu	C-354	
	Soft Matter – John Katsaras	C-152	
12:15 – 1:30 p.m.	Working lunch: Table Topics on sample environment and instrument capabilities		
	Location: SNS 8600 ground floor patio		
1:30- 3:30 p.m.	PARALLEL SESSIONS		
	Iran Thomas Auditorium	Room C-156	
	Quantum Materials	Biology & Life Sciences	
	Moderator: Ben Frandsen, Brigham Young	Moderator: Amy Xu, Louisiana State University	
	University		
1:30 p.m.	Alan Tennant, University of Tennessee	Julie Champion, Georgia Institute of	
1.50 p.m.		Technology	
1.50 m m	Ni Ni, University of California, Los Angeles	Evgenyi Shalaev, AbbVie	
1:50 p.m.	(Virtual Talk)	Lygenyi Shalaev, Abbyle	
2:10 p.m.	Valery Kiryukhin, Rutgers University	Yue Yuan, Oak Ridge National Laboratory	
	Functional/Energy Materials	Polymers, Colloids & Complex Fluids	
	Moderator: Julia Zaikina, Iowa State University	Moderator: Yun Liu, NIST Center for Neutron	
		Research	
2:30 p.m.	Allyson Fry-Petit, California State University,	Jeffrey Richards, Northwestern University	
·	Fullerton		
2:50 p.m	Hui (Claire) Xiong, Boise State University	Gernot Rother, Oak Ridge National Laboratory	
3:10 p.m.	Angus Wilkinson, Georgia Institute of	Guoliang Liu, Virginia Tech (Virtual Talk)	
5.10 p.m.	Technology		
2.20 n m	Break - Posters about HFIR/SNS capabilities and	undates on display in the Johny	
3:30 p.m.	· ·	updates on display in the lobby	
4:00 p.m.	SHUG Town Hall		
	Keynote 5: Inspiring the next generation of neutron scatterers		
	Allyson Fry-Petit, Associate Professor of Analytical and Materials Chemistry, California State		
	University, Fullerton		
	Best Poster and Outstanding Staff Awards		
5:00 p.m.	SNS Tours — Meet in Building SNS 8600, lobby		
	HFIR Tours — Vans outside main entrance of SNS Building 8600		
6:00 p.m.	Close		

Thursday, June 8 – Workshop Day 2		
9:00 a.m 5 p.m.	Workshop 4: Second Target Station Satellite Meeting Organizer: Leighton Coates Location: 8600, Iran Thomas auditorium	