



**New Science and Applications at the SNS Workshop
June 10-12, 2026**

Agenda

Event Contact: Angie Woody, (865) 806-2743, woodyae@ornl.gov		
Time	Event	Location
DATE: 06/10/2026		
Opening Session	Chair: Fulvia Pilat	
8:30 a.m.-8:35 a.m.	Jon Taylor: Welcome	8600 RM C156
8:35 a.m.–8:50 a.m.	Fulvia Pilat: Introduction, Workshop goals and plans	8600 RM C156
8:50 a.m.–9:10 a.m.	Sang-ho Kim: The SNS Power ramp-up	8600 RM C156
9:10 a.m.–9:40 a.m.	Vasily Morozov: Options for a “third target station” at the SNS	8600 RM C156
9:40 a.m.–10:10 a.m.	Nick Evans: SNS Capabilities, Test station at the Linac dump	8600 RM C156
10:10 a.m.-10:40 a.m.	Coffee Break	
10:40 a.m.-11:10 a.m.	Yongjoong Lee: Overview of target technology for applications	8600 RM C156
11:10 a.m.-11:40 a.m.	Tova Holmes: Muon Collider overview	8600 RM C156
11:40 a.m.-12:00 p.m.	Katsuya Yonehara: Muon Collider (MC) ionization cooling	8600 RM C156
12:00 p.m. – 1:00 p.m.	Lunch	8600 RM C150
Fundamental Physics	Chair: Marcel Demarteau	
1:00 p.m.-1:10 p.m.	Marcel Demarteau: Introduction fundamental physics opportunities at SNS	8600 RM C156
1:10 p.m.-1:40 p.m.	Alexey Petrov: Low-energy muon physics – theory	8600 RM C156
1:40 p.m.-2:10 p.m.	Dan Kaplan: Low-energy muon physics – experiment	8600 RM C156
2:10 p.m.-2:40 p.m.	Jason Newby: New Opportunities for Neutrino Physics	8600 RM C156
2:40 p.m.-3:10 p.m.	Kent Leung: Ultra Cold Neutron Source (UCIS) at the SNS	8600 RM C156



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3:10 p.m.-3:30 p.m.	Coffee Break	
3:30 p.m.-4:00 p.m.	Steven Clayton: Fundamental UCN Symmetries Experiment	8600 RM C156
4:00 p.m.-4:30 p.m.	Mike Snow / Albert Young: Interferometry and exotic fundamental neutron physics experiments	8600 RM C156
4:40 p.m.-6:00 p.m.	Tour of SNS	
6:00 p.m.	Dinner	8600 Lobby
DATE: 06/11/2026		
μSR and irradiation	Chair: Despina Louca	
8:00 a.m.-8:10 a.m.	Despina Louca: Introduction to μSR	8600 RM C156
8:10 a.m.-8:30 a.m.	Greg MacDougall: Cooperative use of muons and neutrons to sleuth 'hidden' order in f-electron magnets	8600 RM C156
8:30 a.m.-9:00 a.m.	Thomas Prokscha: Muon instruments and science at the SμS	8600 RM C156
9:00 a.m.-9:20 a.m.	Ben Frandsen: Two is Greater Than One (and Other Obvious Facts): Learning More about Quantum Materials by Combining Muon Spin Spectroscopy and Neutron Scattering	8600 RM C156
9:20 a.m. -9:40 a.m.	Graeme Luke: Muon spin rotation/relaxation as a probe of unconventional superconductivity	8600 RM C156
9:40 a.m.-10:00 a.m.	Yasutomo Uemura: Energy scales of unconventional superconductors measured by muons and neutrons	8600 RM C156
10:00 a.m. – 10:30 a.m.	Coffee Break	8600 RM C156
10:30 a.m.-10:50 a.m.	Adrian Brugger: Introduction to Single Event Effects (SEE)	8600 RM C156
10:50 a.m.-11:10 a.m.	Laura Dominik: SEE facilities	8600 RM C156
11:10 a.m.-11:30 a.m.	Kevin Brown: The BNL SEE facility	8600 RM C156
11:30 a.m.-12:00 p.m.	Discussion	8600 RM C156
12:00 p.m.-1:00 p.m.	Lunch	8600 RM C150



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Isotopes	Chair: Chris Bryan	
1:00 p.m.-1:20 p.m.	Chris Bryan: Introduction: Radioisotope Production at ORNL, ORNL Perspective and Trends	8600 RM C156
1:20 p.m.-1:40 p.m.	Justin Griswold: Results of the LDRD radioisotope production at SNS	8600 RM C156
1:40 p.m.-2:00 p.m.	Bryan Leber: Radioisotope Processing Facility at ORNL	8600 RM C156
2:00 p.m.-2:20 p.m.	Brian Egle: Isotope Enrichment	8600 RM C156
2:20 p.m.-2:40 p.m.	Discussion	8600 RM C156
2:40 p.m.-3:00 p.m.	Coffee Break	8600 RM C156
Fusion/ADS	Chair: Arnie Lumsdaine	
3:00 p.m.-3:20 p.m.	Arnold Lumsdaine: Introduction: fusion landscape and requirements	8600 RM C156
3:20 p.m.-3:40 p.m.	Ara Knaian: Muon catalyzed fusion, collaborative proposal	8600 RM C156
3:30 p.m.-4:00 p.m.	Stefano Tognini: Muon production: science and modeling	8600 RM C156
4:00 p.m.-4:20 p.m.	Stuart Henderson: Overview of ADS	8600 RM C156
4:20 p.m.-4:40 p.m.	Rol Johnson: ADS concepts	8600 RM C156
4:40 p.m.-5:20 p.m.	Discussion	8600 RM C156
5:20 p.m.	Adjourn	
6:30 p.m.	No host Dinner	



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Event Contact: Angie Woody, (865) 806-2743, woodyae@ornl.gov		
Time	Event	Location
DATE: 06/12/2026		
Panel on National Security applications		
8:30 a.m.-10:00 a.m.	Panel on National Security applications Moe Khaleel: National Security ORNL Donnie Hornback: National security capabilities at BNL Bruce Carlsten, John Lewellen, Shea Mosby: LANL mission and facilities for National Security	8600 RM C156
10:00 a.m.-10:30 p.m.	Coffee Break	
Closing Session	Chair: Nick Evans	
10:30 a.m.-12:00 p.m.	Nick Evans: Closing session	8600 RM C156
12:00 p.m.	Adjourn	