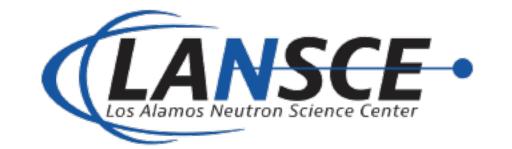
LANSCE Futures Spring 2021 Workshop Series

developing the technical case for cutting-edge science at the NNSA-supported LANSCE endstations to 2050 and beyond



Workshop 2 of 4: Scattering Science

Dynamic Radiography | Apr 5 - 6

Scattering Science | Apr 21 | Link is below

Nuclear Science | May 10 - 11

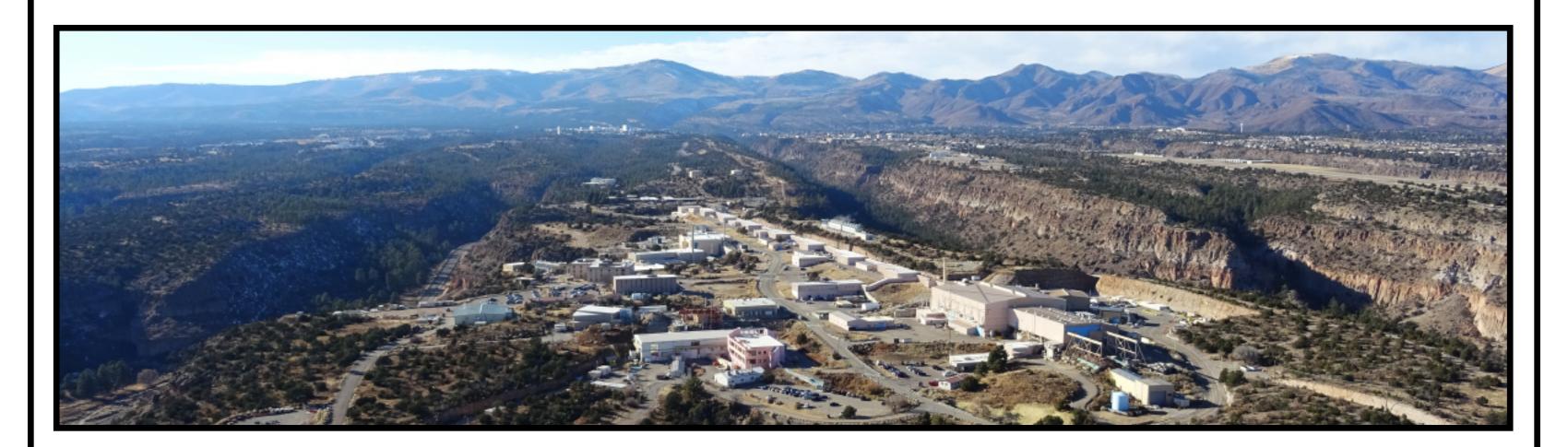
Area A Futures | Jun 1 - 2

This second part of the workshop series is intended to set the baseline for scattering and imaging beam line concepts to be built in the next few years. Those concepts are to be informed by mission need from sponsors as well as what novel approaches for neutron characterization are developed elsewhere.

The workshop will consist of a virtual part and a classified session in the SCC Auditorium, see agenda. The MST-8 Scattering Team will state which capabilities exist now, how neutrons complement the landscape of other available characterization tools (X-rays, electrons etc.), and some ideas for new instruments. Program leaders will provide information about road maps, data needs, and material science developments of current and potential new sponsors. Ultimately this information will be merged into novel instrument concepts directly addressing capability needs of programs supported at LANL. These instrument concepts are to be developed in more detail in follow-up workshops focused on particular concepts.

Link to the open portion of the workshop:

https://lanl-us.webex.com/lanl-us/j.php?MTID=mc919a78dae43643b83ef6ef09743ffec



LANSCE Futures Spring 2021 Workshop Series - Scattering Science 4/21/2021

all presenters are from LANL unless otherwise indicated

Webex link: https://lanl-us.webex.com/lanl-us/j.php?MTID=mc919a78dae43643b83ef6ef09743ffec

	Welcome & LANL Mate	erials Mission	
8:30	all attendees	Login	
8:35	M. Furlanetto/S. Mosby	Welcome & goals of the workshop series	
8:40	John Sarrao	LANL Materials Mission	
	LANSCE Existing Capa	bilities and Opportunities	
9:00	Sven Vogel	Neutron Diffraction	
9:15	Alexander Long	Energy-resolved and Fast (MeV) Neutron Radiography	
9:30	Erik Watkins	Cold Neutron Applications: Reflectometry, Imaging, SANS	
9:45		Break	
	Trends and Novel Conce	epts in Neutron Beamlines Worldwide	
10:00	Anton Tremsin/UCB	Trends in Imaging Beamlines Wordwide	
10:15	Robin Woracek/ESS	Trends in Engineering Scattering Beamlines Worldwide	
10:30	Cev Noyan/Columbia	Opportunities in Material Characterization by Neutron Diffraction	
10:45	Srinivasan Iyer	Office of Science Programs and U.S. Neutron User Community	
	Discussion of Neutron C	Discussion of Neutron Characterization Opportunities	
11:00	all attendees	Discussion of Neutron Characterization Opportunities	
11:45		Lunch Break	
	Scintillators/Detectors &	x Nuclear Energy	
12:45	Donnie Hornback/NA-22	NA-22 Mission Needs for Pulsed Neutrons	
13:00	Blas Uberuaga	Scintillator Discovery and Optimization: Progress and Needs	
13:15	Jeph Wang	Time-resolved Neutron Radiography Through a SIFaN Instrument.	
13:30	Stu Maloy	Neutron Characterization of Irradiated Structural Materials	
13:45	Rory R. Kennedy/NSUF	The Nuclear Science User Facility Program	
14:00	Josh White	Material Characterization Needs of Fuel Programs	
14:15		Break	
	Other LANL Programs		
14:30	Hongwu Xu	Neutrons for LANL Geoscience Mission	
14:45	Terry Salyer	Explosive Characterization Needs of the LANL Aging & Lifetimes Program through Neutron Scattering and Imaging at LANSCE	
15:00	Rod Borup	LANL Fuel Cell Program	
15:15		End of unclassified part	
	Classified Part: Weapon	s Programs (SCC Auditorium)	
16:00	Don Brown	Opportunities to Study Classified Components	
16:15	Eric Brown	Weapons Program Materials Needs	
16:30	Bob Hackenberg	Aging and Corrosion of Metals and Alloys	
16:45	James Hunter	Non-destructive testing at LANL: Capabilities and Gaps	
17:00	Pat Hochanadel	Uranium Modernization	
17:15	Erica Gjersing	W93 and Future Systems	
17:30		Adjourn	