			Updated 01/21/2021	
		nities for a US-based oscopy Facility		
	ividon specti			
Day 1 - February 1, 2021 ALL TIMES ARE SHOWN AS EASTERN TIME ZONE				
	Dr. Louca is the Maxine S. and Jesse W. Beams Professor of Physics at the Univeristy of Virginia. She is a neutron scatterer by training and is currently serving as the president of the Neutron Scattering Society of America (NSSA). Dr. Louca's research is in materials physics, focusing on understanding the interactions of spin, charge and lattice degrees of freedom, and of their role in phase transitions observed in strongly correlated electron solids that exhibit properties such as magnetoresistance, superconductivity and multiferroicity. She is a fellow of the American Physical Society. Dr. Louca sees immense value in bringing muon spectroscopy in the US and is spearheading this effort to get not just the muon community involved but the neutron community as well in making this happen.			
8:15 am - 9:05 am (ET)	Muon Spin Relaxation (MuSR) and Neutron Scattering Studies in Quantum Materials	Yasutomo Uemura Columbia University	Monitor: Despina Louca	
	Dr. Uemura is a Professor at Columbia University and the inaugural recipient of the Toshimitsu Yamazaki prize for outstanding, sustained work in µSR with long term impact on science. His foundational work in the areas of spin glasses, quantum magnetism and unconventional superconductivity give him a unique perspective on the power of muon techniques and their impact on condensed matter research.			
9:05 am - 9:55 am (ET)	Battery Materials with Muons	Jun Sugiyama CROSS-Tokai	Monitor: Despina Louca	
	with Toyota Central R&D Laboratories, he has been	ns for industry-oriented research into battery materials. As a premier expert in measuring lithium and sodium ion diffusic on the industry motivations for a next-generation muon source	on rates in batteries.	
9:55 am - 10:10 am (ET)	Break			
10:10 am - 11:00 am (ET)	Muon Spin Relaxation in Semiconductors and Oxides	James Lord ISIS Neutron and Muon Source	Monitor: Travis Williams	
	Dr. Lord is an instrument scientist on the HiFi muon Instrument at the ISIS Neutron and Muon Source. His research focuses on condensed matter systems, specifically semiconductors and oxides. Dr. Lord is also an expert on muon instrumentation and resear using high magnetic field measurements using muon spectroscopy.			
11:00 am - 11:50 am (ET)	lonic Diffusion	Peter Baker ISIS-RAL	Monitor: Travis Williams	
	Dr. Baker is an instrument scientist at the ISIS Neutron and Muon source, which hosts pulsed muon beams for performing a wide range of scientific experiments. Dr. Baker's research combines probing ionic diffusion with magnetism and superconductivity, which highlights the versatility of muon spectroscopy as a technique.			
11:50 am - 12:30 pm (ET)	Lunch			
12:30 pm - 1:30 pm (ET)	Breakout: Quantum Materials	Collin Broholm Johns Hopkins University	Monitor: Travis Williams	
	Quantum Materials are the largest research area for µSR around the world, and the development of a next generation muon source will open up new research directions. This session will discuss possible avenues for new research in frustrated materials, topological states, low-dimensional systems and beyond.			
1:30 pm - 2:30 pm (ET)	Breakout: Chemistry & Battery Materials	lain McKenzie	Monitor:	
	### Travis Willian  ###################################			

Adjourn

2:30 pm (ET)

Day 2 - February 2, 2021				
ALL TIMES ARE SHOWN AS EASTERN TIME ZONE				
8:00 am - 8:50 am (ET)	Low-Energy Muons	Thomas Prokscha	Monitor:	
	Dr. Proskscha is the Head of the Low-Energy Muon group at PSI, the world's best source for low energy muon beams. He brings an unparallelled vision for the development and future need for studies using low-energy muon beams, including to thin films, devices and surface studies.			
8:50 am - 9:40 am (ET)	The Muon-fluorine Interaction: A Model Quantum System for Exploring Decoherence	Stephen Blundell Oxford University	Monitor: Greg MacDougall	
	Dr. Blundell is a Professor of Physics in Oxford University, whose research employs µSR to study superconductivity and magnetism in a range of organic and inorganic materials. His recent work devloping the technique DFT+µ demonstrates the inaruguable benfits of combing advanced computational techniques and muon science.			
9:40 am - 10:00 am (ET)		Break		
10:00 am - 10:50 am (ET)	From Correlations to Functionality using Depth Resolved Spin Resonance Techniques	Sarah Dunsiger TRIUMF/Simon Fraser U.	Monitor: Clarina dela Cruz	
	Dr. Dunsiger is a research scientist in TRIUMF's Center for Molecular and Materials Science and Adjuct Professor at Simon Fraser University. Her work using low energy $\mu$ SR and beta-NMR demonstrates the unique power of depth-resolved resonance probes to illuminate the effects of surfaces in quantum materials and interfaces in functional magnetic heterostructures			
10:50 am - 11:50 am (ET)	Breakout: Low-Energy Muons	Alannah Hallas & Alan Te University of British Columbia Oak Ridge	nnant National Lab	
	Low-energy muon beams are a rapidly-growing area of μSR research, due to their ability to probe surface states and depth-resolved properties. Currently, low-E μSR beams have been limited by low flux, but a new μSR facility has the capability to overcome this shortcoming. This session will discuss the scientific needs for low-E μSR capabilities in a future US facility.			
11:50 am - 12:30 pm (ET)	Lunch			
12:30 pm - 1:30 pm (ET)	Breakout: Broader Impacts	Aidy Hillier ISIS-RAL		
	The benefits of a high-flux domestic muon source extend beyond the applications of µSR. This session will focus on the broader impacts of a next-generation muon source, including integration with SEE testing and fundamental physics. It will also discuss new developments within the user community and opportunites for growth.			
1:30 pm - 2:00 pm (ET)	Summary of Breakouts	Greg MacDougall University of Illinois		
	Dr. MacDougall is a Research Professor at the University of Illinois at Urbana-Champaign. He specializes in the growth and characterization of novel quantum materials, and has years of experience utilizing µSR and neutron scattering instrumentation at National Laboratories. In recent years, he has been working with ORNL to help develop plans for the next-generation SEEMS muon facility.			
2:00 pm - 2:30 pm (ET)	SEEMS Presentation	Travis Williams Oak Ridge National Lab		
	both neutrons and μSR. He has been involved in de	utron Sciences Directorate at ORNL. His work focuses on f-electron systems using veloping the science case for the Second Target Station as well as the conceptual gn for a muon source at the SNS.		
2:30 pm - 2:45 pm (ET)	Future Plans	Clarina dela Cruz Oak Ridge National Lab		
	Dr. dela Cruz is the head of the Quantum Materials Initiative within the Neutron Sciences Directorate at ORNL. In this role, she is responsible for evaluating internal research proposals and coordinating external funding opportunities by ORNL staff, including work on a future ORNL muon source.			
2:45 pm (ET)	Adjourn			