OAK RIDGE National Laboratory

AGENDA

MANAGED BY UT-BATTELLE FOR THE US DEPARTMENT OF ENERGY

Second Target Station Workshop
October 27-29, 2015

Tuesday, October 27, 2015		
Time		
1:00 PM	Workshop Welcome	
1:00 PM- 1:20 PM	Scientific motivation for the STS	Tennant
1:20 PM – 1:40 PM	Characteristics of the planned STS	Herwig
1:40 PM – 2:00 PM	Workshop Charge	Eskildsen
2:00 PM – 2:30 PM	Summary of Soft Matter Grand Challenge Workshop	Pincus
2:30 PM – 3:00 PM	Summary of Biology Grand Challenge Workshop	Taylor
3:00 PM – 3:30 PM	Break	
3:30 PM – 4:00 PM	Summary of QCMD Grand Challenge Workshop	Broholm
4:00 PM – 4:30 PM	Summary of Materials Grand Challenge Workshop	Parise
4:30 PM – 5:00 PM	Charge for Wednesday morning breakout sessions	
5:00 PM – 5:15 PM	Breakout session preparation (Workshop organizers, program advisory committee and discussion leaders only)	

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Wednesday, October 28, 2015		
8:00 AM – 11:00 AM	Breakout Sessions with breakfast: Scientific drivers for the STS	
Biology	Membranes and thin films, structure and dynamics of membrane systems (joint with Soft Matter). Discussion Leader: David Worcester, University of Missouri	Room C466
Biology	Structure and dynamics of proteins, large complexes, and disordered systems. Discussion leader: David Cowburn, Yeshiva University	Room C152
Soft Matter	Colloids, self-assembled surfactants, charged polymers in solution, polymer networks, hydrogels, nanocomposites and hierarchical systems. Discussion leader: Tonya Kuhl, University of California, Davis	Room AG06
Soft Matter	Dynamics in soft matter, glasses, gels, transport in soft matter, and active soft matter. Discussion leader: Yun Liu, NIST Center for Neutron Research and University of Delaware	Room L183
Soft Matter	Membranes and thin films, structure and dynamics of membrane systems (joint with Biology). Discussion leader: David Worcester, University of Missouri	Room C466
Quantum Condensed Matter Physics	Heterostructured and nanostructured materials. Discussion leader: Charles Majkrzak, NIST Center for Neutron Research	Room AG05
Quantum Condensed Matter Physics	Bulk functional materials and emergent states of matter #1. Discussion leader: Raymond Osborn, Argonne National Laboratory	Room C250
Quantum Condensed Matter Physics	Bulk functional materials and emergent states of matter #2. Discussion leader: Bruce Gaulin, McMaster University	Room C354
Materials, Discovery, Characterization and Applications	In-situ chemical reactions and catalysts. Discussion leader: Thomas Hansen, Institut Laue Langevin	Iran Thomas Auditorium

Materials, Discovery, Characterization and Applications	Advanced functional materials. Discussion leader: Tyrel McQueen, Johns Hopkins University	Room C156
Materials, Discovery, Characterization and Applications	Advanced energy materials. Discussion leader: Angus Wilkinson, Georgia Technical University	Room C464
Materials, Discovery, Characterization and Applications	Engineering materials. Discussion leader: David Jacobson, NIST Center for Neutron Research	Room AG07
11:15 AM – 11:45 AM	Instrument selection at the ESS	Andersen
11:45 AM – 12:00 PM	Charge for afternoon sessions	
12:00 PM – 1:30 PM	Lunch and Poster Session	
1:30 PM – 5:00 PM	Breakout sessions: Instruments and techniques ***each group selects ~2 candidates for first STS instruments***	
	Powder Diffraction Discussion leader: Asfhia Huq	Room C354
	Single-crystal diffraction Discussion leader: Bryan Chakoumakos	Room C152
	SANS Discussion leader: Volker Urban	Room C156
	Reflectometry Discussion leader: Gregory Smith	Room L183
	Chopper Spectrometers Discussion leader: Mark Lumsden	Iran Thomas Auditorium

	High-resolution backscattering and neutron spin-echo Discussion leader: Eugene Mamontov	Room C250
	Inverse geometry spectrometers for chemical spectroscopy Discussion leader: Anibal (Timmy) Ramirez-Cuesta	Room C464
	Imaging and engineering diffraction Discussion leader: Andrew Payzant	Room C466
5:15 PM – 6:00 PM	Breakout session outcome evaluation and consolidation (workshop organizers, program advisory committee and discussion leaders only)	
6:00 PM – 8:00 PM	Dinner with talk from Paul Langan	

Thursday, October 29, 2015		
8:00 AM – 9:40 AM	Summaries of Wednesday afternoon breakout sessions	Discussion leaders
9:40 AM – 10:00 AM	Break	
10:00 AM – 12:00 PM	Town Hall meeting to select 8-10 candidates for initial STS instruments	
12:00 PM – 12:45 PM	Formation of instrument advisory teams	
12:45 PM – 1:00 PM	Workshop conclusion	