



MANAGED BY UT-BATTELLE FOR THE US DEPARTMENT OF ENERGY

Soft Matter Dynamics at the Nano- to Meso-Scale

Oak Ridge National Laboratory Building 8600, C-156

September 18-19, 2018

Day 1—Tuesday, September 18

Time	Event	Speaker
7:30-8:30 a.m.	Badging and Registration Workshop check-in, breakfast provided	Visitor Office ORNL main campus SNS, C-156
8:30-8:45 a.m.	Welcome Guests to SNS	NScD management Oak Ridge National Laboratory
8:45-9:00 a.m.	General introduction	Wim Bras Oak Ridge National Laboratory
9:00-9:30 a.m.	NSE & XPCS workshop introduction	Laura Stingaciu Oak Ridge National Laboratory
9:30-10:00 a.m.	Inelastic Neutron Scattering at SNS &HFIR, Technical Solutions and Science Examples	Georg Ehlers Oak Ridge National Laboratory
10:00-10:30 a.m.	Neutron Spin Echo: State of the Art	Dieter Richter FZJ-JCNS1
10:30-11:00 a.m.	Break	
11:00-11:30 a.m.	X-ray Photon Correlation Spectroscopy at the NSLS-II	Andrei Fluerasu Brookhaven National Laboratory
11:30 a.m12:00 p.m.	Studying collective dynamics in soft matter with neutron and X-ray scattering	Alexei Sokolov University of Tennessee
12:20-12.30 p.m.	Group picture, SNS lobby	
12:30-1:30 p.m.	Working lunch Synergetic perspectives discussion	Michael R. Fitzsimmons Oak Ridge National Laboratory
1:30-2:00 p.m.	The NSE spectrometer @ SNS, soft-matter applications	Piotr Zolnierczuk Oak Ridge National Laboratory
2:00-2:30 p.m.	Polymer Dynamics Science Topic*	Dvora Perahia Clemson University
2:30-3:00 p.m.	Materials structure measurement by resonant soft X-ray scattering	Dean DeLongchamp National Institute of Standards and Technology
3:00-3.30 p.m.	Break, refreshments provided	
3:30-4:00 p.m.	The Influence of Polymer Dynamics on the Functional Properties on Materials for Impact Mitigation and Transport Membranes: Status, Needs, and Opportunities	Christopher Soles National Institute of Standards and Technology





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4:00-4.30 p.m.	NSE and XPCS insights on the nanoscopic origin of rheological properties in some well-dispersed polymer nanocomposites	Faraone Antonio National Institute of Standards and Technology
5:00-5:40 p.m.	Synergetic discussion in 4 groups	4 facilitators To be announced during the workshop
5:40-6:00 p.m.	Conclusions of the group discussion	Presented by the group facilitator
6:00-7:00 p.m.	Working dinner / Networking Complementary methods	Amit Naskar Oak Ridge National Laboratory

*this title might change





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Day 2—Wednesday, September 19

Time	Event	Speaker
8:00-8:30 a.m.	Workshop first day recap,	Laura Stingaciu
	breakfast provided	Oak Ridge National Laboratory
8:30-9:00 a.m.	Studying polymer dynamics with BASIS	Niina H. Jalarvo
	backscattering spectrometer	Oak Ridge National Laboratory
9:00-9:30 a.m.	The mechanical properties of lipid	Jonathan Nickels
	domains	University of Cincinnati
9:30-10:00 a.m.	Soft Matter XPCS at APS: Progress and	Alec Sandy
	Future Opportunities	Argonne National Laboratory
10:00-10:30 a.m.	Break	
10:30-11.00 a.m.	From High-Resolution Neutron Scattering	Gerald J. Schneider
	to the Understanding of Soft Matter	Louisiana State University
	Revealed structures and dynamics of	Ted Vere
11:30 a.m12:00 p.m.	polymer chains bound to nanofiller	Tad Koga Stony Brook University
	surfaces	Stony Brook University
12:00-12:30 p.m.	Working lunch	Laura Stingaciu
	On the perspectives discussion session	Oak Ridge National Laboratory
12:30-1:30 p.m.	Perspectives discussion in 4 groups	4 facilitators
		To be announced during the workshop
1:30-2:00 p.m.	Conclusions of the group discussion	Presented by the group facilitator
2:00-2:30 p.m.	Manipulating collective mode propagation	Alessandro Cunsolo
	at mesoscopic scales	Brookhaven National Laboratory
2:30-3:00 p.m.	Future opportunities for dynamics studies	Chenhui Zhu
	with coherent resonant X-ray	Lawrence Berkeley National Laboratory - ALS
3:00-3:30 p.m.	Synergetic perspectives discussion	Dieter Richter
	wrap-up	FZJ-JCNS1
3:30-3:45 p.m.	Break, refreshments provided	
3:45-4:30 p.m.	Tour of SNS instruments	Volker Urban, Mike Fitzsimmons, Laura Stingaciu
4:30 p.m.	Close	