

APS Upgrade Soft Matter First Experiments Workshop Agenda

Organizers: Bob Leheny, Johns Hopkins University, and Alec Sandy, Argonne National Lab
 Local Program Committee: Byeongdu Lee and Jin Wang, Argonne National Lab, and Larry Lurio, Northern Illinois University

May 19, 2015

Location: 401-A1100

Time	Speaker	Title
<i>Soft Matter I</i>		
<i>Chair: Alec Sandy, Argonne National Laboratory</i>		
8:30-9:00	Dr. Stephen Streiffer, Argonne National Laboratory Prof. Bob Leheny, Johns Hopkins University	The APS-Upgrade (25 min) Workshop Goals (5 min)
9:00-9:30	Prof. Andrea Liu University of Pennsylvania	Challenges in Soft Matter Physics
9:30-10:00	Prof. Paul Nealey University of Chicago	Precise 3-D Metrology of Soft-Matter Assemblies
<i>10:00-10:30</i>	<i>Break, discussion</i>	
<i>Soft Matter II</i>		
<i>Chair: Jin Wang, Argonne National Laboratory</i>		
10:30-11:00	Prof. Tom Russell, U. Mass.-Amherst	Using Brightness and Coherence for Polymers and Particles
11:00-11:30	Prof. Wes Burghardt, Northwestern University	Structural Dynamics of Polymers and Soft Materials under Flow
<i>11:30-1:00</i>	<i>Lunch and discussion re breakout session topical areas and deliverables led by Bob Leheny and Alec Sandy.</i>	
<i>Session 3: Interfaces</i>		
<i>Chair: Larry Lurio, Northern Illinois University</i>		
1:00-1:30	Prof. Tonya Kuhl, University of California-Davis	From Novel Biophysics of Lipid Membranes to more Biological Systems
1:30-2:00	Dr. Ben Ocko, Brookhaven National Lab.	Buried and Non-Ideal Interfaces
<i>2:00-2:20</i>	<i>Break, discussion</i>	
<i>Session: Liquid Crystals, Colloids</i>		
<i>Chair: Bob Leheny, Johns Hopkins University</i>		
2:20-2:50	Prof. Sam Sprunt, Kent State University	Time-Resolved XRD / XPCS on Smectic Membranes: Some Prospects for the Proposed APS Upgrade
2:50-3:20	Prof. Nick Abbott, University of Wisconsin-Madison	Self Assembly in Complex Fluids
<i>3:20-3:40</i>	<i>Break, discussion</i>	
<i>Session: Programmed Assembly</i>		
<i>Chair: Byeongdu Lee, Argonne National Laboratory</i>		
3:40-4:10	Dr. Oleg Gang, Brookhaven National Lab	Programmable Nano-Systems and Their Transformations
4:10-4:40	Dr. Robert Macfarlane, Massachusetts Institute of Technology	Programmable Soft Matter with Polymers and Inorganic Nanoparticles
<i>4:40-5:30</i>	<i>Breakout preliminary discussions</i>	

May 20, 2015

Location(s): TBD

<i>9:00-12:00</i>	<i>Breakout discussions. Locations and format to be determined.</i>	
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