



## Liquids Reflectometry and Large Scale Structures

Thursday-Friday, August 3-4, 2017

### Organizers:

John Ankner ([anknerjf@ornl.gov](mailto:anknerjf@ornl.gov)), Biology and Soft Matter Division, ORNL

Jim Browning ([browningjf@ornl.gov](mailto:browningjf@ornl.gov)), Chemical and Engineering Materials Division, ORNL

This one-and-a-half-day workshop is aimed at bringing together users of reflectometry as applied to the study of large scale structures. The workshop will consist of a general information session, scientific highlights, presentations on instrument capabilities, instrument concepts and developments for the second target station, and a tour of the instrument. A special portion of the workshop will be devoted to a detailed discussion of sample environment needs, specifically as applied to the study of large scale structures. Novice users wishing to learn more about the reflectometry technique are invited to attend.

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Building 8600, Room C-250

### August 3

Time	Title	Speaker
9:00-9:15 a.m.	Opening remarks (With coffee and light refreshments)	John Ankner
9:15-9:45 a.m.	"Neutron Reflectivity for Probing Intelligent Soft Matter Architecture"	Eugenia Kharlampieva
9:45-10:15 a.m.	"Neutron reflectometry at its limits: characterizing thin SAMs"	Whitney Fies
10:15-10:30 a.m.	Break	
10:30-11:00 a.m.	"Probing battery interfaces <i>in situ</i> "	Gabriel Veith
11:00-11:30 a.m.	"Quantifying Dynamic Chain Intermixing and Water Content in Functional Nanocoatings"	Svetlana Sukhishvili
11:30 a.m.-12:00 p.m.	"Unraveling In Situ Chemical Modification of Polymer-modified Interfaces"	Mike Kilbey
12:00-1:30 p.m.	"QIKR, A Reflectometer at the Second Target Station" Working Lunch	John Ankner
1:30-2:00 p.m.	"Experimental and Computational Approaches for Interpreting Neutron Reflectometry of Polymers"	Brad Lokitz
2:00-2:15 p.m.	"Sample Environments on the Liquids Reflectometer"	Jim Browning
2:15-2:45 p.m.	"Soft Matter Sample Environment at ISIS- From zero to fully operational with continuous evaluation and improvement!"	Andy Church
2:45-3:15 p.m.	"Upgrading the Soft-Matter Reflectometer"	John Ankner
3:15-3:45 p.m.	Break with light refreshments	
3:45-5:30 p.m.	Open discussions	All

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### August 4

Time	Title	Speaker
9:00-12:00	Data reduction and analysis (With coffee and light refreshments)	Mathieu Doucet