

**Monday, June 7: Mini-Symposium; SNS CLO C-152**

7:30 ORNL/ORAU badge pick-up (Doubletree Hotel lobby , Oak Ridge; Flora Meilleur)	
7:45 Bus leaves Doubletree hotel for ORNL	
8:10-8:45	Continental breakfast
8:45-9:00	Welcome (Flora Meilleur)
9:00-10:00	“Neutrons in Structural Biology; an overview” (Dean Myles, NSSD/ORNL)
10:00-10:15	Break
10:15-11:15	“Past, Present and future structure function studies of carbonic anhydrase” (Robert McKenna, University of Florida)
11:15-12:15	“A conformational switch auto-regulates the scaffolding protein NHERF1” (Zimei Bu, Fox Chase Cancer Center)
12:15-1:15	Lunch and group picture
1:15-2:15	“Concerted neutron scattering and molecular dynamics simulation studies of membrane protein structure and dynamics” (Douglas Tobias, University of California)
2:15-3:15	“Emergent structures in models of biological membranes” (Tonya Kuhl, University of California)
3:15-3:45	Coffee Break
3:45-4:45	“Small-angle neutron scattering to investigate polyglutamine aggregation in Huntington’s disease” (Chris Stanley, NSSD/ORNL)
4:45-5:00	Break
5:00-6:15	Poster session
6:15-7:15	Poster session / Dinner
7:15	Bus leaves ORNL for the Doubletree Hotel (Oak Ridge)

**Tuesday, June 8: Facility Tours**

7:45 Bus leaves Doubletree hotel for ORNL	
8:10-9:00	Continental breakfast / separate students into two groups for visits
9:00-12:00	HFIR visit (1/2 group) – SNS visit (1/2 group)
12:00-1:30	Lunch at SNS – NSSD Visitors program / ORISE program presentation
1:30-4:30	HFIR visit (1/2 group) – SNS visit (1/2 group)
4:45	Bus leaves ORNL for Doubletree Hotel (Oak Ridge)
Dinner on your own	

<b>Wednesday, June 9: Deuteration; Crystallography; SANS; Reflectometry; Center for Science education, ORAU</b>	
7:30-8:30	Continental Breakfast (Center for Science education, ORAU)
8:30-9:30	Deuteration (Kevin Weiss)
9:30-10:30	Crystallography I (Leighton Coates)
10:30-11:00	Coffee Break
11:00-12:00	Crystallography II (Leighton Coates)
12:00-1:00	Lunch
1:00-2:00	Small Angle Neutron Scattering I (William Heller)
2:00-3:00	Small Angle Neutron Scattering II (William Heller)
3:00-3:30	Coffee Break
3:30-4:30	"Neutron Reflectivity as a Probe of Biological Surface and Interfacial Structure" (John Ankner)
4:30-5:30	Tutorial : Refinement; neutron maps interpretation (Steve Tomanicek)
5:30-6:30	Tutorial : Refinement; neutron maps interpretation (Steve Tomanicek)
Dinner on your own	

<b>Thursday, June 10: Crystallography; SANS; Reflectometry; Dynamics; Center for Science education, ORAU</b>	
7:30-8:30	Continental Breakfast (Center for Science education, ORAU)
8:30-9:30	Crystallography III (Flora Meilleur)
9:30-10:30	Small Angle Neutron Scattering III (William Heller)
10:30-11:00	Coffee Break
11:00-12:00	Dynamics with Neutrons (Jeremy Smith)
12:00-1:00	Lunch
1:00-2:00	"The Interaction of a Biological Electron Shuttle with Hematite" (Alex Johs)
2:00-3:00	"A Versatile Synthetic Bio-Compatible Polymer Scaffold" (Brad Lokitz)
3:00-3:30	Coffee Break
3:30-4:30	Tutorial: SANS data reduction; Guinier fit and pair distribution function P(r) (William Heller)
4:30-5:30	Tutorial: SANS data reduction; Guinier fit and pair distribution function P(r); proposal writing tips (William Heller)
5:30-6:30	Beamtime proposal, submission and allocation process (Flora Meilleur)
Dinner on your own	

<b>Friday, June 11: Reflectometry; Dynamics; Imaging; Center for Science education, ORAU</b>	
7:30-8:30	Continental Breakfast
8:30-9:30	Dynamics II (Ken Herwig)
9:30-10:30	Dynamics III (Ken Herwig)
10:30-11:00	Coffee Break
11:00-12:00	"Preparation of Thin Films by Spin Coating" (Candice Halbert) "Langmuir, Langmuir-Blodgett, and Langmuir-Shaefer Deposition" (Jim Browning)
12:00-1:00	Lunch
1:00-2:00	Imaging "Preparation of Thin Films by Spin Coating" (Candice Halbert) "Langmuir, Langmuir-Blodgett, and Langmuir-Shaefer Deposition" (Jim Browning)
2:00-3:00	Imaging (Hassina Bilheux)
3:00-3:30	Coffee Break
3:30-4:30	Tutorial: Reflectometry data reduction; scattering profile interpretation (John Ankner)
4:30-5:30	Tutorial: Reflectometry data reduction; scattering profile interpretation (John Ankner)
5:30-6:30	Proposal writing (Flora Meilleur)
6:30	Closing & Certificate reception