

Course Program
Symposium - Neutrons in Structural Biology
May 23, 2011

8:00-8:15 a.m.	ORNL/ORAU badge pick-up (Comfort Inn Hotel lobby , Oak Ridge; Flora Meilleur)
8:15 a.m.	Depart Hotel for ORNL

SNS/8600, C156

Time	Title	Speaker
9:00-10:00 a.m.	Training	
10:10-10:15 a.m.	Welcome	Flora Meilleur
10:15-11:00 a.m.	"Neutrons in Structural Biology; an overview"	Dean Myles, NSSD/ORNL
11:00-11:15 a.m.	Coffee Break	
11:15 a.m.-12:15 p.m.	"Insights into the modular architecture and dynamic remodeling of replication protein a (RPA) from NMR, SAXS, and SANS"	Walter Chazin, Vanderbilt University
12:15-1:15 p.m.	"Dynamic propagation of allosteric signals by nanoscale protein motion"	Zimei Bu, City College New York
1:15-2:15 p.m.	Lunch and speakers and course participants group pictures	
2:15-3:15 p.m.	"Biomolecular Structure and Dynamics with Neutrons and Computer Simulation"	Jeremy Smith, UTK/ORNL
3:15-4:15 p.m.	"Past, Present and future structure function studies of carbonic anhydrase"	Robert McKenna, University of Florida
4:15-4:30 p.m.	Break	
4:30-5:30 p.m.	"The Study of Biological Model Membrane Systems with Neutrons"	John Katsaras, NSSD/ORNL
5:30-6:30 p.m.	Poster Session	
6:30-7:30 p.m.	Dinner with "Opportunity at ORNL" after dinner talk	
7:30 p.m.	Depart ORNL for the Comfort Inn Hotel (Oak Ridge)	

Monday, May 23: Symposium (See back page for Symposium Program)
CLO/8600, C156

Tuesday, May 24: Deuteration, Crystallography / Facility Tours

8:30-9:30 a.m.	Crystallography I (Paul Langan)	JINS/8630, A202
9:30-10:30 a.m.	Crystallography II (Flora Meilleur)	JINS/8630, A202
10:30-11:00 a.m.	Coffee Break	
11:00 a.m.-12:00 p.m.	Deuteration (Kevin Weiss)	JINS/8630, A202
12:00-1:00 p.m.	Lunch at SNS cafeteria	
1:00-3:30 p.m.	HFIR visit (1/2 group) - SNS visit (1/2 group)	SNS (Kevin Weiss) HFIR (Flora Meilleur)
3:30-4:00 p.m.	Break	
4:00-5:00 p.m.	Participants' project discussion (Flora Meilleur)	JINS/8630, A202

Wednesday, May 25: Crystallography; SANS / Facility Tours

8:30-9:30 a.m.	Small Angle Neutron Scattering I (William Heller)	JINS/8630, A202
9:30-10:30 a.m.	Small Angle Neutron Scattering II (William Heller)	JINS/8630, A202
10:30-11:00 a.m.	Coffee Break	
11:00 a.m.-12:00 p.m.	Crystallography III (Flora Meilleur)	JINS/8630, A202
12:00-1:00 p.m.	Lunch at SNS cafeteria	
1:00-3:30 p.m.	HFIR visit (1/2 group) - SNS visit (1/2 group)	SNS (Hugh O'Neill) HFIR (Flora Meilleur)
3:30-4:00 p.m.	Break	
4:00-6:00 p.m.	Tutorial: Crystallography (Flora Meilleur)	CLO/8600, C152

Thursday, May 26: SANS; Reflectometry

8:30-9:30 a.m.	Small Angle Neutron Scattering III (William Heller)	JINS/8630, A202
9:30-10:30 a.m.	Neutron Reflectivity I (John Ankner)	JINS/8630, A202
10:30-11:00 a.m.	Coffee Break	
11:00 a.m.-12:00 p.m.	Polyelectrolyte multilayers as biological scaffolds (Eugenia Kharlampieva, U. Alabama at Birmingham)	JINS/8630, A202
12:00-1:00 p.m.	Lunch at SNS cafeteria	
1:00-2:00 p.m.	Tutorial : SANS (William Heller)	SNS/8600, C152
2:00-3:00 p.m.	Tutorial : SANS (William Heller)	SNS/8600, C152
3:00-3:30 p.m.	Break	
3:30-4:30 p.m.	Beamtime proposal, submission and allocation process (Flora Meilleur)	SNS/8600, C152
4:30-5:30 p.m.	Participants' project discussion (Flora Meilleur)	SNS/8600, C152

Friday, May 27: Reflectometry; Dynamics; Imaging

8:30-9:30 a.m.	Dynamics I (Ken Herwig)	JINS/8630, A202
9:30-10:30 a.m.	Dynamics II (Ken Herwig)	JINS/8630, A202
10:30-11:00 a.m.	Coffee Break	
11:00 a.m.-12:30 p.m.	Imaging (Hassina Bilheux)	JINS/8630, A202
12:30-1:30 p.m.	Lunch at SNS cafeteria	
1:30-2:30 p.m.	Tutorial: Reflectometry (John Ankner)	SNS/8600, C152
2:30-3:30 p.m.	Tutorial: Reflectometry (John Ankner)	SNS/8600, C152
3:30-4:30 p.m.	Closing & Certificate reception	SNS/8600, C152