

SNS HFIR User Meeting Agenda
October 11-13, 2005
ORNL Research Support Center

Sponsored by:

**Oak Ridge National Laboratory, Spallation Neutron Source, High Flux Isotope Reactor, Center for Nanophase Materials Science and
Office of University Relations
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University of Tennessee / Joint Institute for Neutron Sciences**

Tuesday, October 11, 2005		
8:00 am	Registration opens	Building 5200 Upstairs Lobby
8:30	Welcome – Jim Roberto, ORNL Welcome – Pedro Montano, DOE/BES <i>[file]</i> Welcome – Thom Mason, ORNL <i>[file]</i>	Room 202A-C
9:00 – 10:30	The Look Ahead HFIR – Steve Nagler, HFIR <i>[file]</i> SNS – Ian Anderson, SNS CNMS – Linda Horton, CNMS <i>[file]</i>	Room 202A-C
10:30 – 11:00	Break	Room 202A-C
11:00 – noon	Plenary Lecture – Synergies Shenda Baker, Harvey Mudd College	
Noon – 1:30 pm	Lunch with continuing discussions Poster session featuring SNS and HFIR instruments	Upstairs Lobby

1:30 – 6:00	Parallel Technique Sessions	
1:30 – 3:30 Session A: room 202-A Diffraction (Chair: Angus Wilkinson, Ga Tech) Hanno zur Loye, South Carolina: <i>Oxide Structures Containing Sodium Cations in Trigonal Prismatic Environments [file]</i> John Evans, Durham: <i>Structure=f(x), Surface Fitting and Structural Complexity [file]</i> Sossina Haile, Cal Tech: <i>Structural Studies of Proton-Conducting Inorganic Electrolytes [file]</i> Jason Hodges, SNS: <i>POWGEN3 IAT Meeting [file]</i> Bryan Chakoumakos, HFIR: <i>HFIR Diffraction Instruments [file]</i>	1:30 – 3:30 Session B: Room 202-B QENS (Chair: Despina Louca, UVa) Sow-Hsin Chen, MIT: <i>Pressure Dependence of Fragile-to-Strong Dynamic Cross-over Transition in Deeply Supercooled Confined Water Studied by Quasielastic Neutron Scattering [file]</i> Frans Trouw, LANL Janna Maranas, Penn State: <i>Melting and dynamics in dehydrated phospholipid bilayers [file]</i> Ken Herwig, SNS	1:30 – 3:30 Session C: Room 202-C SANS (Chair: Megan Robertson, California-Berkeley) Joe Zaccai, ILL: <i>Applications of SANS to strategic problems in biology [file]</i> George Wignall, HFIR: <i>SANS Studies of Polymers and Colloids: Past Highlights and Future Directions [file]</i> J. K. Zhao, SNS: <i>Extended Q-Range SANS at the SNS [file]</i> Gary Lynn, HFIR: <i>New SANS instruments at HFIR[file]</i>
3:30 – 4 pm Break		
4 – 6 pm Session D: room 202-A Engineering Diffraction Materials Behavior Studies with Neutrons (Chair: Cam Hubbard, ORNL) Hahn Choo, Tennessee and ORNL: <i>Neutron Diffraction Studies of Mesoscopic Deformation Behavior of Structural Alloys[file]</i> Suresh Babu, Edison Welding Institute: <i>Application of In-situ Diffraction Tools towards Fundamental Understanding of Material Behavior During Thermo-Mechanical Processing [file]</i> Les Butler, LSU: <i>Prospects for Neutron Tomography and High-Speed Radiography: Complex Structure Imaging</i> Cam Hubbard, ORNL and Xun-li Wang, SNS: <i>Status of Commissioning NRSF2 at HFIR and Construction of VULCAN at SNS</i>	4 – 6 pm Session E: Room 202-B Inelastic (Chair: Steve Shapiro, BNL) Young Lee, MIT Andrew Christianson, California-Irvine/ LANL: <i>Localized Excitation in the Hybridization Gap in YbAl₃</i> Dmitriy Sokolov, Michigan: <i>Quantum Criticality in the Itinerant Antiferromagnet Cr-V [file]</i> Garrett Granroth, SNS: <i>Neutron spectrometry at the High Flux Isotope Reactor and the Spallation Neutron Source [file]</i>	4 – 6 pm Session F: Room 202-C Reflectometry (Chair: Paul Butler, NIST) Charles Majkrzak, NIST: <i>Neutron reflection and diffraction from thin films and multilayered structures [file]</i> Tonya Kuhl, UC Davis : <i>Neutron Reflectivity of Confined Polymer Brushes [file]</i> Michael Kent, Sandia : <i>Protein interactions with lipid monolayers by neutron and x-ray reflection and grazing incidence x-ray diffraction [file]</i> Mathias Lösche, Carnegie Mellon & CNBT, NIST : <i>Surface sensitive neutron scattering as a tool for the molecular-scale characterization of biomimetic membranes</i> John Ankner, SNS : <i>Neutron reflectometry facilities at ORNL</i>
6:00	Reception and science poster session; over 40 posters are anticipated	RSC
8:00	Adjourn	

Wednesday, October 12, 2005

8:30 – 9:30am	Sample environment: Lou Santodonato, SNS		Room 202 A-C
9:30 - 10:30	User policies, proposal system: philosophy and feedback (Chair: Steve Shapiro, BNL) Greg Smith, HFIR: <i>The SNS-CNS User Program: Applying for Beam Time [file]</i> Al Ekkebus, SNS: <i>User access [file]</i> Ken Herwig, SNS: <i>Plans for sample management [file]</i>		Room 202 A-C
10:30 – 11:00	Break continuing discussions		Upstairs lobby
11:00 - Noon	SHUG meeting – Angus Wilkinson		Room 202 A-C
Noon - 1:30	Lunch with continuing discussions		Poster session continues from previous evening
1:30 – 5pm	IAT meetings and Tours of HFIR and SNS		
Room 202 A	Room 202 B	Room 202 C	Room 219
1:30 - 3 pm IAT Meeting: Backscattering Spectrometer Ken Herwig, SNS: <i>Initial experiments [file]</i> Ken Herwig, SNS: <i>Summary [file]</i>	1:30 - 3 pm IAT Meeting: Magnetism Reflectometer Frank Klose, SNS: <i>Status of the SNS Magnetism Reflectometer [file]</i> Hal Lee, SNS: <i>Fast-Switching Spin-up/Spin-down ³He Neutron Polarizer: A successful test at SCD, IPNS [file]</i>	1:30 - 3 pm IAT Meeting: Liquids Reflectometer	1:30 - 3 pm IAT Meeting: CNCS
3:00-3:30 Break	3:00-3:30 Break	3:00-3:30 Break	
3:30 – 5pm IAT Meeting Extended Q range – SANS Thiyaga, ANL : <i>Summary [file]</i> Zhao, SNS: <i>EQ-SANS [file]</i>	3:30 – 5pm IAT Meeting POWGEN3 Jason Hodges, SNS : <i>POWGEN3 [file]</i> Lou Santodonato, SNS <i>[file]</i>	3:30 – 5pm IDT Meeting ARCS	

Thursday, October 13, 2005

8:30 – Noon	Workshops	Room 202 A-C
Room 202 A:	Room 202B:	Room 202 C:
<p>Reflectometry Workshop</p> <p>John Ankner, SNS: <i>Principles of neutron reflectivity and soft matter</i> [file]</p> <p>Frank Klose, SNS: <i>Introduction to Polarized Neutron Reflectometry</i> [file]</p> <p>William Hamilton, HFIR: <i>Reflection geometry SANS</i></p> <p>Jarek Majewski, LANL: <i>Single Model Biomembranes at Solid-Liquid Interface: Comparing Neutron and X-ray Scattering</i> [file]</p>	<p>SANS Workshop:</p> <p>Volker Urban, ORNL: <i>Introduction; SANS for Beginners</i> [file]</p> <p>Yuri Melnichenko, HFIR: <i>New Applications of SANS: Studying Fluid Adsorption in Nanopores</i> [file]</p> <p>Mona Yethiraj, HFIR: <i>Small-angle Diffraction from Magnetic Flux Line Lattices</i> [file]</p> <p>William Hamilton, HFIR: <i>Time resolved SANS measurements</i> [file]</p> <p>William Heller, ORNL: <i>SANS & Modeling of Bio-macromolecular Complexes</i> [file]</p> <p>Dean Myles, ORNL: <i>Support Facilities Needs for Soft Matter, Infrastructure: Needs & Requirements</i> [file]</p> <p>Kevin Weiss, ORNL: <i>The Bio-Deuteration Lab at ORNL</i> [file]</p> <p>Michael Agamalian, SNS: <i>Ultra-Small-Angle Neutron Scattering: A New Technique For Materials Research</i> [file]</p>	<p>Nanomaterials and Neutrons Workshop (chair: Linda Horton, CNMS)</p> <p>Linda Horton, CNMS: <i>Center for Nanophase Materials Sciences – Opportunities for Synergies with the Neutron Scattering User Community</i> [file]</p> <p>Ian S. Anderson, SNS: <i>Introduction</i></p> <p>Phil Britt, ORNL: <i>Synergism Between Macromolecular Complex Systems Research at CNMS and SNS HFIR</i> [file]</p> <p>Anatoli Melesko, ORNL: <i>Nanofluidics and naobio</i>[file]</p> <p>Doug Lowndes, CNMS: <i>Functional Nanomaterials</i> [file]</p> <p>Mike Simonson, ORNL: <i>Nanostructured Bulk Materials</i> [file]</p> <p>John Larese, Tennessee: <i>Neutrons as a probe of molecular dynamics and chemistry at surfaces?</i> [file]</p> <p>Jian Shen, ORNL: <i>Magnetism</i></p> <p>Thomas Schulthess, ORNL: <i>Theory Modeling and Data Analysis</i></p> <p>Thomas Proffen, LANL: <i>Total neutron scattering to obtain a 'complete' structural finger print of nano particles</i> [file]</p> <p>Steve Overbury, ORNL: <i>Catalysis and Nanophase Building Blocks: CNMS as Catalysis User Center</i> [file]</p>
8:30 - Noon	Tours of SNS and HFIR [if necessary]	
8:30 – Noon	Other discussions	
Noon – 1pm	Lunch for Workshop attendees and continue discussions with workshop evaluations	
1 pm	Adjourn	