

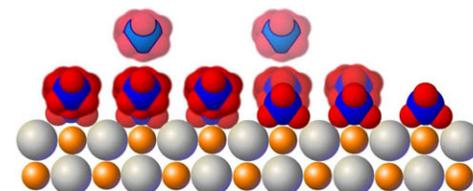
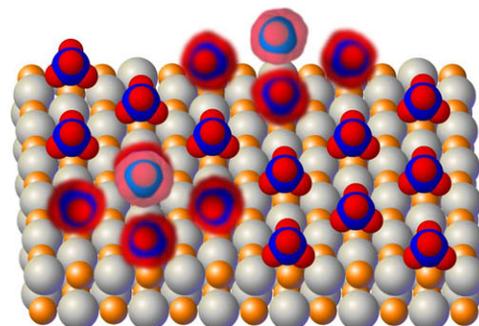
NSFChemBio

Neutron Scattering for Chemistry and the Chemistry/Biology Interface

Joint Institute for Neutron Sciences Workshop Series

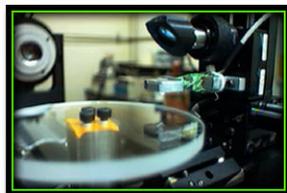
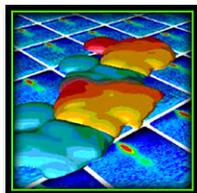
This workshop focuses on scientific grand challenges and the role neutrons can play in chemistry and at the chemistry-biology interface. Graduate students, postdocs and researchers who are new to neutron scattering are especially encouraged to participate. Attendees will learn about applications of neutron scattering and spectroscopy to structure and dynamics in:

- Catalysis; optical, electronic and magnetic materials; batteries; nanoporous solids
- Structure and dynamics of liquids, glasses, complex fluids, thin films, proteins, biomembranes and whole cells
- Molecular behavior under confinement/near interfaces
- Complex self-assemblies of synthetic and biomaterials



This workshop is held in conjunction with the SENSE Workshop, Sample Environments for Neutron Scattering Experiments, on September 24-26. Together, the workshops will:

- Inform the chemistry and chem-bio communities of opportunities—instrumentation and supporting facilities—currently planned for the Spallation Neutron Source (SNS)
- Solicit the community's ideas on the needs for instrumentation, detector development, and sample environment development to support neutron scattering experiments
- Identify the tools needed and outline a path to realization via the formation of concept teams to develop science cases and funding proposals for instrumentation, detectors, sample environment and related laboratory facilities



- Tour of the National High Magnetic Field Laboratory
- Poster session to share research ideas

Confirmed Speakers

Shenda Baker, Harvey-Mudd College
David Baxter, Indiana University
Luc Daemon, Los Alamos
Joanna Krueger, U. North Carolina, Charlotte
Tonya Kuhl, U. California, Davis
John Larese, U. Tennessee and Oak Ridge
Dean Myles, Oak Ridge
Dermot O'Hare, Oxford
John Root, Chalk River, Canada
Doug Tobias, U. California, Irvine
John Tompkinson, ISIS, UK
Frans Trouw, Los Alamos
Joe Zwanziger, Indiana University

Program Committee

Shenda Baker, Harvey-Mudd College, Co-chair
John Larese, University of Tennessee, Co-chair
Paul Butler, Oak Ridge National Laboratory
W. Ross Ellington, Florida State University
Wayne Goodman, Texas A&M University
Martha Greenblatt, Rutgers University
Jyotsana Lal, Argonne National Laboratory
Lee Magid, University of Tennessee and Joint Institute for Neutron Sciences
James Martin, North Carolina State University
Dean Myles, Oak Ridge National Laboratory
Doug Tobias, University of California at Irvine
John Turner, University of Tennessee

Contacts

Technical: Lee Magid, 865-974-4228
Local: Janet Patten, 850-644-9651

Sponsored by

National Science Foundation
University of Tennessee/Joint Institute for Neutron Sciences
Florida State University
Oak Ridge National Laboratory/Spallation Neutron Source
Oak Ridge Associated Universities

Registration fee: \$200, scholarships for students and faculty, register at

http://www.sns.gov/jins/tallahassee_workshops_2003/workshops.htm