

SANS, Neutron Reflectometry and NSE for Soft Condensed Matter Research

Organizers

Wei-Ren Chen (NSSD SNS ORNL) & Yun Liu (NCNR NIST)

Speakers

Paul Butler (NCNR NIST)

Wei-Ren Chen (NSSD SNS ORNL)

Yun Liu (NCNR NIST)

Thom Mason (Chemistry and Biochemistry, Physics and Astronomy, California
NanoSystems Institute, UCLA)

Norman Wagner (Chemical Engineering, University of Delaware)

Greg Smith (NSSD SNS ORNL)

Bill Hamilton (Bragg Institute, ANSTO)

Roger Pynn (NSSD SNS ORNL & Physics, Indiana University)

Tentative Schedule

7:45-8:00 Check in

8:00-8:50 Paul Butler – *Overview of SANS Technique and Its Application to Soft Matter Research*

9:00-9:50 Wei-Ren Chen – *General Theory of SANS*

10:00-10:50 Yun Liu – *Colloidal Interactions in Solutions*

11:00-11:50 Thom Mason – *SANS of Soft Colloids and Nanoemulsions*

11:50-1:00 Lunch

1:00-1:50 Norman Wagner – *Rheo-SANS: Structure-Property Relations under Flow and Dynamics*

2:00-2:50 Greg Smith – *Introduction of Neutron Reflectometry*

3:00-3:50 Bill Hamilton – *Off Specular Scattering: What It Can Tell You and What You Need to Know*

4:00-4:50 Roger Pynn – *Introduction to Neutron Spin Echo as a Probe of Dynamics in Complex Fluids*