

# 2012 Topical User Meeting

January 9 & 10

## Poster Session

**Emil S. Bozin**

Brookhaven National Laboratory

Studies of fluctuations in strongly correlated electron systems and related materials by neutron PDF at LANSCE

**Graham King**

LANSCE Lujan Center

Monitoring shifts in valence states in  $\text{AMn}_{0.5}\text{Ru}_{0.5}\text{O}_3$  perovskites using reverse Monte Carlo modeling of pair distribution function data

**Neil Henson**

Los Alamos National Laboratory Theory Division

**Brent C. Melot**

Université de Picardie Jules Verne, Amiens, France  
Structural diversity in transition metal fluorosulfates

**Jamie Neilson**

John Hopkins University

Local displacements: magnetoelastic coupling and bonding in spin-ladder iron selenides

**Katharine Page**

LANSCE Lujan Center

Neutron total scattering and nanoparticles

**Ken K. Qian**

National Institute of Standards and Technology

Characterization of amorphous pharmaceutical solids using neutron scattering and pair distribution function

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**Daniel P. Shoemaker**

Argonne National Laboratory

Materials Science Division: Nanoscale disorder in functional chalcogenides and applications of large-box modeling

**Emily Tencate**

LANSCCE | Massachusetts Institute of Technology

The Interactive Nanobuilder: investigating the effects of shape, structure, and size on diffraction data

**Jim Tencate**

Los Alamos National Laboratory EES Division:

The neutron hammer: Studying rocks with total scattering

**Claire White**

LANSCCE LujanCenter | LANL Theory Division

Complex materials, total scattering and theoretical modeling: the importance of structural thermodynamics

**Claire White**

LANSCCE LujanCenter | Los Alamos National Laboratory Theory Division

Multiscale modeling of the structural mechanisms occurring during the formation of geopolymer binders: combining density functional theory and Monte Carlo analysis

**Briean Rusnak**

Lawrence Livermore National Laboratory

Deuterium-Gas Target Development for High-Energy Neutron Imaging