

List of Presentations for the ACNS:

Introductory Session A

Date: Monday Morning 6/24/02

Room: Tennessee Ballroom A, B, C

Chair: Rob Briber, University of Maryland and Dave Belanger, UCSC

AA-01 8:20 AM

Title: NSSA/SHUG Welcome

Presenter James Rhyne/John Tranquada, Univ. Missouri/Brookhaven National Lab.

AA-02 8:30 AM

Title: DOE BES Welcome

Presenter Patricia Dehmer, DOE-BES

AA-03 8:40 AM

Title: DOC NIST Welcome

Presenter Michael Rowe, NIST

AA-04 8:50 AM

Title: NSF Welcome

Presenter Tom Weber, NSF

AA-05 9:00 AM

Title: Review of US Neutron Sources

Presenter Paul Sokol, Pennsylvania State University

AA-06 9:30 AM

Title: Review of World Neutron Sources

Presenter Gerry Lander, EITU

Plenary Session B

Date: Monday Morning 6/24/02

Room: Tennessee Ballroom A, B, C

Chair: James Rhyne, University of Missouri

BA-01 10:30 AM

Title: SNS Overview

Presenter Thom Mason, Spallation Neutron Source

BA-02 11:30 AM Plenary Talk

Title: Current Directions in New Materials Research

Presenter Robert Cava, Princeton University

Oral Session CA: Colloids, Micelles and Biomolecules

Date: Monday Afternoon 6/24/02

Room: Tennessee Ballroom A

Chair: Lee Magid, University of Tennessee

CA-01 1:45 PM KeynoteTalk

Title: RHEO-SANS Nonequilibrium microstructure of shearing colloidal dispersions

Presenter Norm Wagner, Univ. Delaware

CA-02 2:15 PM Invited Talk

Title: Topological Relaxation in a Sheared Membrane Phase: Kinetics and Energetics of Handle Formation

Presenter Lionel Porcar, Oak Ridge

CA-03 2:30 PM Invited Talk

Title: SANS investigation of molecular gels.

Presenter Pierre Terech, CNRS

CA-04 2:45 PM Contributed Talk

Title: Kinetics of Bicelle to Lamellae Phase Transition in Phospholipid Mixtures

Presenter Howard Wang, NIST

CA-05 3:00 PM Contributed Talk

Title: Controlling Structure and Solution Interactions in Block Polyelectrolyte Assemblies

Presenter Surita Rani Bhatia, Univ. Massachusetts

Oral Session CB: Magnetism I

Date: Monday Afternoon 6/24/02

Room: Tennessee Ballroom B

Chair: Bruce Gaulin, McMaster University

CB-01 1:45 PM KeynoteTalk

Title: *Tuning antiferromagnetic quantum criticality in the cuprates by a magnetic field*

Presenter Subir Sachdev, Yale

CB-02 2:15 PM Invited Talk

Title: *The dual life of a high-T_c superconductor*

Presenter Young S Lee, Massachusetts Institute of Tech.

CB-03 2:30 PM Contributed Talk

Title: *Magnetic Field-Induced Antiferromagnetism in the Cuprate High Transition Temperature Superconductor*

Presenter Bella A Lake, Oak Ridge

CB-04 2:45 PM Contributed Talk

Title: *Long-lived resonance, stripes and spin gaps in ortho-II ordered YBCO*

Presenter Chris Stock, University of Toronto

CB-05 3:00 PM Invited Talk

Title: *Novel Spin Reorientation and Weak Ferromagnetism in K₂V₃O₈*

Presenter Mark D Lumsden, Oak Ridge

Oral Session CC: Materials Chemistry

Date: Monday Afternoon 6/24/02

Room: Tennessee Ballroom C

Chair: Josef Zwanziger, Indiana University

CC-01 1:45 PM KeynoteTalk

Title: *Time-Resolved, In-Situ Neutron Powder Diffraction Studies of Hydrothermal Reactions*

Presenter Dermot O'Hare, University of Oxford

CC-02 2:15 PM Invited Talk

Title: *Morphing the Amorphous: Designing Intermediate Range Order in Glasses and Liquids.*

Presenter James D. Martin, North Carolina State

CC-03 2:30 PM Contributed Talk

Title: *The Hydration Structure of Metal Ions in Aqueous Solution: Some New Insights from Neutron Diffraction*

Presenter Yaspal Singh Badyal, Oak Ridge

CC-04 2:45 PM Contributed Talk

Title: *Slowing Down of Water Dynamics in Low Temperature Hydrated Cement Paste*

Presenter Antonio Faraone, Massachusetts Institute of Tech.

CC-05 3:00 PM Contributed Talk

Title: *Phase Separation and Crystallization in Potassium Niobate Tellurite Glass*

Presenter Robert T. Hart, Indiana University

Oral Session DA: Polymer Structure and Thermodynamics I

Date: Monday Afternoon 6/24/02

Room: Tennessee Ballroom A

Chair: Mark Dadmun, University of Tennessee

DA-01 3:45 PM KeynoteTalk

Title: *Structure of Sphere-Forming Block Copolymers in Solutions and Melts*

Presenter Timothy P. Lodge, University of Minnesota

DA-02 4:15 PM Contributed Talk

Title: *Construction Of Micro- And Nanoporous Hydrogels Via Designed Diblock Copolypeptide Self-Assembly And*

Presenter Darrin J Pochan, University of Delaware

DA-03 4:30 PM Contributed Talk

Title: *A SANS investigation of the structure and interactions of dendrimer-like star copolymer architectures in solution*

Presenter Cheryl Marie Stancik, Stanford

DA-04 4:45 PM Contributed Talk

Title: *Small Angle Neutron Scattering of PS-P2VP Arborescent Graft Polymers*

Presenter Robert M Briber, Univ. Maryland

DA-05 5:00 PM Contributed Talk

Title: *SANS verification of a structural model for equilibrium swollen networks*

Presenter Gregory Beaucage, Univ. Cincinnati

DA-06 5:15 PM Contributed Talk
Title: *From single molecules to aggregates to gels in dilute solution: self-organization of nanoscale rod-like molecules*
Presenter Dvora Perahia, Clemson

Oral Session DB: Magnetism II

Date: Monday Afternoon 6/24/02
Room: Tennessee Ballroom B
Chair: John Tranquada, Brookhaven National Laboratory

DB-01 3:45 PM Invited Talk
Title: *Critical Scattering Line Shapes of the Random-Field Ising Model*
Presenter Feng Ye, Univ. California, Santa Cruz

DB-02 4:00 PM Invited Talk
Title: *Field-Induced Magnetic Phenomena in Molecule-Based Magnets*
Presenter Carmen Ramona Kmetz, Argonne

DB-03 4:15 PM Contributed Talk
Title: *Scaling and the Magnetic Phase Diagram of a Quasi-One-Dimensional, Spin-1/2, Heisenberg Antiferromagnet*
Presenter Stephen Nagler, Oak Ridge

DB-04 4:30 PM Contributed Talk
Title: *Quantum spin dynamics in 1D antiferromagnets*
Presenter Igor Zaliznyak, Brookhaven

DB-05 4:45 PM Invited Talk
Title: *Quantum Impurities in the spin-diluted Heisenberg antiferromagnet $\text{La}_2\text{Cu}(1-z)(\text{Zn},\text{Mg})z\text{O}_4$*
Presenter Owen Peter Vajk, Stanford

DB-06 5:00 PM KeynoteTalk
Title: *Magnetic Correlations and Quantum Critical Points*
Presenter Meigan Aronson, Univ. Michigan

Oral Session DC: Materials I

Date: Monday Afternoon 6/24/02
Room: Tennessee Ballroom C
Chair: Xun-Li Wang, Spallation Neutron Source

DC-01 3:45 PM KeynoteTalk
Title: *Finite Element Modeling of Crystal Deformations In Neutron Diffraction Experiments*
Presenter Paul Richard Dawson, Cornell

DC-02 4:15 PM Invited Talk
Title: *Stress Measurements in Bulk Metallic Glass Composites*
Presenter Bjørn Clausen, California Institute of Technology

DC-03 4:30 PM Invited Talk
Title: *In-Situ Intergranular Strain Accumulation in a Titanium Alloy Polycrystal*
Presenter Kelly Timothy Conlon, Chalk River

DC-04 4:45 PM Invited Talk
Title: *Neutron Diffraction and SANS Study of Plasma Sprayed Coatings*
Presenter Thomas H Gnäupel-Herold, NIST

DC-05 5:00 PM Contributed Talk
Title: *Neutron Diffraction Measurements During Loading in Shape-Memory Alloys*
Presenter Raj Vaidyanathan, Univ. Central Florida

DC-06 5:15 PM Contributed Talk
Title: *Measurement of grain-orientation-dependent stress using pulsed neutron source*
Presenter Yandong Wang, SNS

Oral Session DD: Neutron Optics

Date: Monday Afternoon 6/24/02
Room: Cumberland Room
Chair: Ian Anderson, Spallation Neutron Source

DD-01 3:45 PM Contributed Talk
Title: *Design of the Incident Optics of the SNS Liquids Reflectometer*
Presenter John F. Ankner, SNS

DD-02 4:00 PM Contributed Talk
Title: *Solid state elements for neutron optics*
Presenter Thomas Krist, HMI

DD-03 4:15 PM Contributed Talk
Title: *Using Multiple Refractive Optics for Focusing and Gravity Cancellation on a SANS Instrument*
Presenter Charles Glinka, NIST

DD-04 4:30 PM Contributed Talk
Title: *Multi-wafer focusing monochromators for neutron scattering*
Presenter Mihai P. Popovici, Univ. Missouri

DD-05 4:45 PM Invited Talk
Title: *Doubly Focusing Neutron Monochromator for MACS*
Presenter Collin Leslie Broholm, Johns Hopkins

DD-06 5:00 PM KeynoteTalk
Title: *The Free Lunch Theorem in Pulsed Source Instrument Optimization*
Presenter Ferenc Mezei, Los Alamos

Poster Session EP: Instrumentation

Date: Monday Evening 6/24/02 8:00 - 9:30 PM

Room: Summit Grand Ballroom II

EP-01 Poster
Title: *The design of a dedicated high-pressure diffractometer for the Spallation Neutron Source*
Presenter Chris A Tulk, SNS

EP-02 Poster
Title: *MACS –a High Intensity Cold Neutron Spectrometer for NIST*
Presenter Collin Leslie Broholm, Johns Hopkins

EP-03 Poster
Title: *A High Resolution Fermi Chopper Spectrometer for the SNS*
Presenter Garrett Earl Granroth, SNS

EP-04 Poster
Title: *New High Flux SANS Instrumentation and the Center for Structural and Molecular Biology at Oak Ridge National*
Presenter Gary W. Lynn, Oak Ridge

EP-05 Poster
Title: *The Extended Q-Range Small Angle Diffractometer*
Presenter Jinkui Zhao, SNS

EP-06 Poster
Title: *High resolution NSE spectrometer for spallation sources: a feasibility study*
Presenter Michael Ohl, Juelich

EP-07 Poster
Title: *Building a high resolution total scattering powder diffractometer - Upgrade of NPD at LANSCE*
Presenter Thomas E Proffen, Los Alamos

EP-08 Poster
Title: *A Flexible Representation for Time-of-Flight Neutron Scattering Data*
Presenter Dennis John Mikkelsen, Univ. Wisconsin-Stout

EP-09 Poster
Title: *Data Collection Strategies and Data Evaluation Techniques for Next Generation Neutron Spectrometers*
Presenter Ferenc Mezei, Los Alamos

EP-10 Poster
Title: *Maximum Likelihood Method in Operation at the Scintillation Detector of the SANS Instrument at FRJ-2*
Presenter Guenter Kemmerling, Juelich GmbH

EP-11 Poster
Title: *Development of a Flexible Data Acquisition System Upgrade for IPNS*
Presenter John P. Hammonds, Argonne

EP-12 Poster
Title: *Modular, pixel-cell neutron detectors meeting requirements of neutron scattering facilities.*
Presenter Manfred K. Kopp, Ordela

EP-13 Poster
Title: *Advances in Scintillation Neutron Detectors*
Presenter Ralf Engels, Juelich GmbH

EP-14 Poster
Title: *Remote Access and Display of Neutron Data*
Presenter Thomas G Worlton, Argonne

EP-15 Poster

Title: *Personal Computer Based Timing Reference Generator*

Presenter Chris R. Rose, Los Alamos

EP-16 Poster

Title: *The Lujan VME Phase Controller*

Presenter Robert B. Merl, Los Alamos

EP-17 Poster

Title: *Dynamic Theory of the Neutron Spin Pendellösung Resonance in the Spherical Wave Approximation*

Presenter Eugene Iolin, Latvian Academy of Sciences

Poster Session EQ: Chemistry

Date: Monday Evening 6/24/02 8:00 - 9:30 PM

Room: Summit Grand Ballroom II

EQ-01 Poster

Title: *Investigation of Catalytic Reaction Intermediates by Neutron Vibrational Spectroscopy*

Presenter Sivadinarayana Chinta, Texas A and M

EQ-02 Poster

Title: *Inelastic Neutron Scattering on co-crystals*

Presenter Jennifer AnneMarie Ciezak, Syracuse Univ.

EQ-03 Poster

Title: *Short, Strong, Low-Barrier Hydrogen Bonds*

Presenter Timothy A Jenkins, Syracuse Univ.

EQ-04 Poster

Title: *Neutron Scattering Study of 1,3-Cyclohexanedione and It's Benzene Complex*

Presenter Yanmei Lan, Syracuse Univ.

EQ-05 Poster

Title: *Inelastic Neutron Scattering Studies of Hydrocarbons*

Presenter Chris Middleton, Syracuse Univ.

EQ-06 Poster

Title: *INS study of solid methanol and DFT modeling of differently deuterated molecular clusters*

Presenter Ireneusz Natkaniec, Frank Laboratory

EQ-07 Poster

Title: *Intermediate Density Amorphous Ices*

Presenter Jacob Urquidi, Argonne

EQ-08 Poster

Title: *Formation and Gas Exchange in Methane Hydrate*

Presenter Arthur J. Schultz, Argonne

EQ-09 Poster

Title: *Inelastic neutron scattering from NH₃ rotors in Hofmann clathrates*

Presenter Peter W. Vorderwisch, HMI

EQ-10 Poster

Title: *Measuring D₂O nucleation rates in supersonic nozzles*

Presenter Barbara E. Wyslouzil, Worcester Polytechnic

Poster Session ER: Materials

Date: Monday Evening 6/24/02 8:00 - 9:30 PM

Room: Summit Grand Ballroom II

ER-01 Poster

Title: *Neutron Scattering of Nanofoams*

Presenter Bryan Spraul, Clemson

ER-02 Poster

Title: *Thermal Expansion of Structure I and Structure II Clath*

Presenter Claudia Jeanette Rawn, Oak Ridge

ER-03 Poster

Title: *Neutron Diffraction for Liquids Under Extreme Conditions*

Presenter Richard Weber, Containerless Research

ER-04 Poster

Title: *Residual Stress Measurement in a Co-based Haynes-25 cylinder*

Presenter Cecilia Larsson, Linköping University

ER-05 Poster

Title: *Anisotropic thermal expansion behavior of a Ti-6Al-4V/SiC composite*

Presenter Hahn Choo, Univ. Tennessee

ER-06 Poster

Title: *Structural characterization of Near Frictionless Carbon (NFC) films for Tribological Applications*

Presenter Jacqueline Anne Johnson, Argonne

ER-07 Poster

Title: *Neutron irradiation of boron-10 isotope doped diamond*

Presenter Jag Kasichainula, North Carolina State

ER-08 Poster

Title: *Neutron Diffraction Study of Phase Evolution of Ball Milled Fe-Zn Alloys*

Presenter Oswald N. C. Uwakweh, University of Puerto Rico

ER-09 Poster

Title: *Review of some new investigations on different oxide based advanced materials*

Presenter Udayan De, Govt. of India

ER-10 Poster

Title: *In-situ Neutron Diffraction Study of High-Temperature Intermetallic Composites*

Presenter Xun-Li Wang, SNS

ER-11 Poster

Title: *Residual Strain Distribution in a Bent Composite Boiler Tube*

Presenter Edward Andrew Payzant, Oak Ridge

Poster Session ES: Soft Condensed Matter

Date: Monday Evening 6/24/02 8:00 - 9:30 PM

Room: Summit Grand Ballroom II

ES-01 Poster

Title: *Study of the Dicapnic Sugar Surfactant C12-DLA (N-alkyl-N,N'-bis[(3-lactabionylamido)propyl]amine with the SANS*

Presenter Aldona Rajewska, Institute of Atomic Energy

ES-02 Poster

Title: *Supramolecular structure of gemini surfactants with flexible and rigid spacers*

Presenter Vinod Kumar Aswal, Paul Scherrer

ES-03 Poster

Title: *Membrane ordering of sponge phases at a solid-soluton interface*

Presenter William Anthony Hamilton, Oak Ridge

ES-04 Poster

Title: *Solvent Diffusion into Complex Perfluorinated Ionomer Thin Films*

Presenter Teresa Anne Hill, Clemson

ES-05 Poster

Title: *Bulk Thermodynamics of Blends of Linear and Branched Functionalized Polymers*

Presenter Jonghwi Hwang, Univ. Akron

ES-06 Poster

Title: *The Effect of a Triblock Copolymer on the Structure of a Water-in-oil Microemulsion*

Presenter Xuesong Jiao, Clemson

ES-07 Poster

Title: *Using small-angle neutron scattering to study the conformation of polyions in aqueous solutions*

Presenter Yue Shen, Univ. of Tennessee

ES-08 Poster

Title: *Neutron Reflectivity Study of Layer-by-Layer Processing of Polyelectrolyte Multilayer Films*

Presenter Stella Yoon-Sun Park, Massachusetts Institute of Tech.

ES-09 Poster

Title: *Phase behavior in Thin Polymer Blend Films*

Presenter Ananth Indrakanti, Pennsylvania State University

Oral Session FA: Soft Matter Dynamics

Date: Tuesday Morning 6/25/02

Room: Tennessee Ballroom A

Chair: Darrin Pochan, University of Delaware

FA-01 8:30 AM KeynoteTalk

Title: *Polymer Dynamics from the global to the local scale as revealed by high resolution neutron spectroscopy*

Presenter Dieter Richter, Juelich

FA-02 9:00 AM Invited Talk

Title: *Self-Motion and the Alpha Relaxation in Glass-Forming Polymers; MD-Simulation by Molecular Dynamics Simulations*

Presenter Juan Colmenero, Universidad Del Pais Vasco

FA-03 9:15 AM Invited Talk

Title: *Nanoscale dynamic correlations near the glass transition*

Presenter Margarita Russina, Los Alamos

FA-04 9:30 AM Contributed Talk

Title: *Dynamics and Structure of Interacting Rodlike Particles Revealed by Neutron Spin Echo Spectroscopy*

Presenter Steven R Kline, NIST

FA-05 9:45 AM Contributed Talk

Title: *Interaction between Hydrophobically Modified Polymer and Surfactant Mesophases*

Presenter Jyotsana Lal, Argonne

FA-06 10:00 AM Contributed Talk

Title: *Neutron Spin-Echo Study on the Modification of Surfactant Membrane Properties due to Polymer Addition*

Presenter Michael Monkenbusch, Juelich

Oral Session FB: Neutron Techniques

Date: Tuesday Morning 6/25/02

Room: Tennessee Ballroom B

Chair: Patrick Gallagher, NIST

FB-01 8:30 AM Invited Talk

Title: *University-based Pulsed Neutron Sources: the LENS project*

Presenter David V Baxter, Indiana University

FB-02 8:45 AM Contributed Talk

Title: *Deep Inelastic Neutron Scattering as a Probe of Hydrogen Bonded Systems*

Presenter George F Reiter, University of Houston

FB-03 9:00 AM Invited Talk

Title: *Atomic Resolution Holography Using Thermal Neutrons*

Presenter Ron Rogge, National Research Council of Canada

FB-04 9:15 AM Contributed Talk

Title: *Monte Carlo Simulation of a Prototype Time Focused Crystal Analyzer Spectrometer for IPNS*

Presenter John Marland Carpenter, Argonne

FB-05 9:30 AM Contributed Talk

Title: *Time-of-Flight Ultra-Small-Angle Neutron Scattering Instrument (TOF-USANS) for SNS*

Presenter Michael Agamalian, SNS

FB-06 9:45 AM KeynoteTalk

Title: *Enhancing Reflectometry and SANS using Neutron Spin Echo*

Presenter Roger Pynn, Los Alamos

Oral Session FC: Materials II

Date: Tuesday Morning 6/25/02

Room: Tennessee Ballroom C

Chair: Arthur Schultz, Argonne National Laboratory

FC-01 8:30 AM Contributed Talk

Title: *High resolution study of roton excitations in superfluid 4He*

Presenter Géza Zsigmond, HMI

FC-02 8:45 AM Contributed Talk

Title: *Layer excitations of superfluid helium-4 in confined geometries*

Presenter Jonathan Vaughan Pearce, Pennsylvania State University

FC-03 9:00 AM Contributed Talk

Title: *Characterization of Nanophases of Lanthanides in Vitreous Silica*

Presenter P Thiyagarajan, Argonne

FC-04 9:15 AM Contributed Talk
Title: *High Pressure Neutron Scattering Study of Ce gamma - alpha Phase Transition*
Presenter Il-Kyoung Jeong, Los Alamos

FC-05 9:30 AM Invited Talk
Title: *Physical and Thermodynamic Properties of Gas Clathrate Hydrates Determined by In Situ Neutron Scattering*
Presenter Bryan C Chakoumakos, Oak Ridge

FC-06 9:45 AM KeynoteTalk
Title: *Chemistry and Structural Properties of the Superconductor MgB₂*
Presenter James D. Jorgensen, Argonne

Oral Session FD: Nuclear/Particle/Astrophysics with Neutrons I

Date: Tuesday Morning 6/25/02

Room: Cumberland Room

Chair: Mike Snow, Indiana University

FD-01 8:30 AM KeynoteTalk
Title: *The Neutron as a Fundamental Physics Laboratory*
Presenter Fred E Wiefefeld, Tulane University

FD-02 9:00 AM Invited Talk
Title: *Parity violation in the n-p system: An update from the {n + p -> d + gamma} collaboration.*
Presenter Mark Leuschner, Univ. New Hampshire

FD-03 9:15 AM Invited Talk
Title: *Using Magnetically Trapped Ultracold Neutrons (UCN) to Measure the Neutron Lifetime*
Presenter Paul R. Huffman, NIST

FD-04 9:30 AM Invited Talk
Title: *High energy physics with ultra-cold neutrons*
Presenter Albert R. Young, North Carolina State

FD-05 9:45 AM Contributed Talk
Title: *Measurement of the Free Neutron Lifetime*
Presenter Jeffrey S. Nico, NIST

FD-06 10:00 AM Contributed Talk
Title: *Testing Time Reversal in Neutron Beta Decay- the emIT Experiment*
Presenter Kevin Patrick Coulter, Univ. Michigan

Poster Session GP: Instrumentation

Date: Tuesday Morning 6/25/02 10:30 AM - 12:00 PM

Room: Summit Grand Ballroom II

GP-01 Poster
Title: *US-Japan Triple Axis Spectrometer: HFIR's TAS on Cold Guide 4*
Presenter Barry L Winn, Brookhaven

GP-02 Poster
Title: *The design of a disordered materials diffractometer for the Spallation Neutron Source*
Presenter Chris A. Tulk, SNS

GP-03 Poster
Title: *The Neutron Optics Test Station NOTS*
Presenter Christine Rehm, SNS

GP-04 Poster
Title: *Conceptual Design for the Small-Angle Neutron Scattering Instrument at the Australian Replacement Research*
Presenter Elliot Paul Gilbert, ANSTO

GP-05 Poster
Title: *New paradigm in pulsed source cold neutron spectroscopy*
Presenter Ferenc Mezei, Los Alamos

GP-06 Poster
Title: *Low-Q Time-Of-Flight Neutron Diffraction on a Partially Coupled Cold Moderator: The Use of Choppers and Gravity*
Presenter Rex Paul Hjelm, Los Alamos

GP-07 Poster
Title: *The New QENS: A successful upgrade of the Quasielastic Neutron Spectrometer of IPNS*
Presenter Robert W. Connatser, Jr., Argonne

GP-08 Poster
Title: *A High-Resolution Neutron Powder Diffractometer for the University of Michigan Ford Nuclear Reactor*
Presenter Ronald R. Berliner, Univ. Michigan

GP-09 Poster

Title: *A single-crystal sapphire cell for in situ neutron diffraction study of gas-hydrate*

Presenter Adam Justin Rondinone, Oak Ridge

GP-10 Poster

Title: *Pressure and Temperature: Pushing the Limits of Sample Environment for Neutron Scattering Experiments*

Presenter Kenneth James Volin, Argonne

GP-11 Poster

Title: *Stop Wasting Your Time on Sample Environments*

Presenter Louis Joseph Santodonato, SNS

GP-12 Poster

Title: *Neutron Diffraction from Levitated Liquids -- a Technique for Measurements under Extreme Conditions*

Presenter Richard Weber, Containerless Research

GP-13 Poster

Title: *The Polarization System of the SNS Magnetism Reflectometer*

Presenter Frank Klose, SNS

GP-14 Poster

Title: *An X-Y-Z magnet for polarized neutron reflectometry*

Presenter Gian P. Felcher, Argonne

GP-15 Poster

Title: *A dynamic neutron energy filter for spallation sources*

Presenter Andre de Azevedo Parizzi, SNS

GP-16 Poster

Title: *SNS Neutron Chopper Systems*

Presenter Chojnowski B David, Oak Ridge

GP-17 Poster

Title: *Performance of the PHAROS T-ZERO Chopper with DSP Control*

Presenter Chris R Rose, Los Alamos

GP-18 Poster

Title: *A High-Resolution Large-Aperture High-Speed Fermi Chopper--Advancing Technology*

Presenter Joseph S Fieramosca, Argonne

Poster Session GQ: Magnetism

Date: Tuesday Morning 6/25/02 10:30 AM - 12:00 PM

Room: Summit Grand Ballroom II

GQ-01 Poster

Title: *Antiferromagnetic polaron correlations in Nd_{0.6}Sr_{1.4}MnO₄*

Presenter Branton J Campbell, Argonne

GQ-02 Poster

Title: *Structural order/disorder and properties of RE_{1-x}BaxMnO[delta]*.

Presenter Omar Chmaissem, Northern Illinois Univ.

GQ-03 Poster

Title: *Magnetic Coupling in the CMR manganites*

Presenter Jaime A Fernandez-Baca, Oak Ridge

GQ-04 Poster

Title: *Mode Splitting in doped SmS*

Presenter Randy Scott Fishman, Oak Ridge

GQ-05 Poster

Title: *Enhancement of Long-Range Magnetic Order by Magnetic Field in Superconducting La₂CuO(4+y)*

Presenter Boris Khaykovich, Massachusetts Institute of Tech.

GQ-06 Poster

Title: *Longitudinal mode in a quasi-one-dimensional, spin-1/2 Heisenberg antiferromagnet*

Presenter Bella A Lake, Oak Ridge

GQ-07 Poster

Title: *Is CaRuO₃ Antiferromagnetic?*

Presenter Juscelino Batista Leao, Florida Atlantic University

GQ-08 Poster

Title: *Pressure dependence of magnetism and dynamic response in TbCu₂*

Presenter Michael B.Loewenhaupt, Dresden

GQ-09 Poster
Title: *Non Fermi-Liquid Behaviour in a Locally Disordered System*
Presenter Wouter Montfrooij, Univ. Michigan

GQ-10 Poster
Title: *Ilmenite-Hematite Ferromagnetic Semiconductors*
Presenter Rainer Schad, Univ. Alabama

GQ-11 Poster
Title: *The Stripe-Liquid Phase in Cuprates and Nickelates*
Presenter John M. Tranquada, Brookhaven

GQ-12 Poster
Title: *Longitudinal excitations and spin-flops in BaCu₂Si₂O₇*
Presenter Andrey Zheludev, Oak Ridge

GQ-13 Poster
Title: *Measuring Lateral Magnetic Structure in Thin Films Using Polarized Neutron Reflectometry*
Presenter Wai-Tung Lee, SNS

GQ-14 Poster
Title: *Magnetic switching of ferromagnetic films with strong out-of plane anisotropy*
Presenter Srinath Sanyadanam, Argonne

GQ-15 Poster
Title: *Epitaxial Ni films on GaAs(001) by electroplating*
Presenter Christian Scheck, Univ. Alabama

GQ-16 Poster
Title: *The Spin-flop Transition in Antiferromagnetic Superlattices*
Presenter Suzanne G.E. te Velthuis, Argonne

Poster Session GR: Materials

Date: Tuesday Morning 6/25/02 10:30 AM - 12:00 PM

Room: Summit Grand Ballroom II

GR-01 Poster
Title: *The influence of hydrostatic pressure on structural distortions in La_{1.48}Nd_{0.4}Sr_{0.12}CuO₄*
Presenter Irina Vasilyevna Pozdnyakova, University of Virginia

GR-02 Poster
Title: *High temperature structure refinement of Bi₂O₃-CaO by neutron diffraction*
Presenter Edward Andrew Payzant, Oak Ridge

GR-03 Poster
Title: *Phonon dispersion measurements of YBa₂Cu₃O_{6.15} and YBa₂Cu₃O_{6.95} by Time-of-Flight Neutron Spectroscopy*
Presenter Jae-Ho Chung, Univ. Pennsylvania

GR-04 Poster
Title: *Synthesis and characterization of the first 1:2 ordered perovskite ruthenate*
Presenter Job Thomas Rijssenbeek, Northwestern Univ.

GR-05 Poster
Title: *Neutron Powder Diffraction of Sr₂MnSbO₆, Sr₂MnNbO₆, Ca₂MnSbO₆, Ca₂MnNbO₆ and Ca₂MnRuO₆: Structure*
Presenter Michael Wayne Lufaso, Ohio State

GR-06 Poster
Title: *Structural Tuning in Layered Perovskites*
Presenter Nattamai S. P. Bhuvanesh, Ohio State

GR-07 Poster
Title: *Inelastic neutron scattering study of the phonon density of states of the vanadium-based alloys V_{93.75}Ni_{6.25}*
Presenter Olivier Delaire, California Institute of Technology

GR-08 Poster
Title: *In-situ neutron scattering studies of Bragg glass melting transition at the peak effect*
Presenter Sang Ryul Park, Brown University

GR-09 Poster
Title: *High Temperature Phases of Barium Indate*
Presenter Scott Misture, Alfred University

GR-10 Poster
Title: *Effects of Lattice Vacancies on the Phonon DOS of FeAl*
Presenter Tabitha Liana Swan-Wood, California Institute of Technology

Oral Session HA: Biological/Biomimetic Systems I

Date: Tuesday Afternoon 6/25/02

Room: Tennessee Ballroom A

Chair: Mathias Loesche, Leipzig University

HA-01 1:15 PM Invited Talk

Title: *Neutron and X-ray Scattering Studies of Biomimetic Ultrathin Films*

Presenter Tonya Lynn Kuhl, Univ. California Davis

HA-02 1:30 PM Contributed Talk

Title: *Neutron Reflectivity/Interferometry Studies of Vectorially-Oriented Single Monolayers of Membrane Proteins*

Presenter Larry R. Kneller, NIST

HA-03 1:45 AM Contributed Talk

Title: *Neutron Reflectometry Characterization of Planar Soft-Supported Membrane-Mimetic Films*

Presenter Ursula A Perez-Salas, NIST

HA-04 2:00 PM Contributed Talk

Title: *Small-Angle Neutron Scattering Characterization as a Tool for Tailoring Micelle Drug Delivery Systems*

Presenter Rex Paul Hjelm, Los Alamos

HA-05 2:15 PM Invited Talk

Title: *Diffraction Studies of Peptides in Membranes*

Presenter Kalina Hristova, Johns Hopkins

HA-06 2:30 PM KeynoteTalk

Title: *Hydrogen and hydration in proteins*

Presenter Nobuo Niimura, JAERI

Oral Session HB: Industrial Applications

Date: Tuesday Afternoon 6/25/02

Room: Tennessee Ballroom B

Chair: John Root, National Research Council of Canada

HB-01 1:15 PM KeynoteTalk

Title: *Putting Polymer Aggregates to Work: An Industrial Perspective on the Use of Neutron Scattering for Probing*

Presenter Hubert E King, Exxon

HB-02 1:45 PM Invited Talk

Title: *Creep Relaxation of Surface Flaws in Internally Pressurized Tubes*

Presenter Brian Leitch, AECL

HB-03 2:00 PM Invited Talk

Title: *Using Neutron Diffraction as a Complement to other Non-destructive Strain Probes*

Presenter Lynann Clapham, Queen's University

HB-04 2:15 PM Invited Talk

Title: *SANS characterization of nanoporous thin films for the next generation of integrated circuits*

Presenter Barry J. Bauer, NIST

HB-05 2:30 PM Contributed Talk

Title: *Characterization of the Controlled Production of the Pore Structure in Catalytic Carbons Prepared from Paper-Mill*

Presenter Kenneth C. Littrell, Argonne

HB-06 2:45 PM Contributed Talk

Title: *Strain Response to an Applied Compressive Stress Along the Axis of Rod-Textured Zircaloy-2*

Presenter Thomas M. Holden, Los Alamos

Oral Session HC: Surfaces and Adsorption

Date: Tuesday Afternoon 6/25/02

Room: Tennessee Ballroom C

Chair: Dan Neumann, NIST

HC-01 1:15 PM Invited Talk

Title: *SANS from aerosols*

Presenter Barbara E. Wyslouzil, Worcester Polytechnic

HC-02 1:30 PM Contributed Talk

Title: *Structure and dynamics of monolayer p-phenylene oligomer films on GRAFOIL*

Presenter Edward James Kintzel, Florida State University

HC-03 1:45 PM Contributed Talk

Title: *Quasielastic Study of H₂ in MCM-48*

Presenter Yvonne Glanville, Pennsylvania State University

HC-04 2:00 PM Contributed Talk
Title: *Quasielastic neutron scattering in nano-science*
Presenter Yang Ren, Northern Illinois Univ.

HC-05 2:15 PM Invited Talk
Title: *Quantum Rotations of Confined Methyl Iodide*
Presenter Robert Michael Dimeo, NIST

HC-06 2:30 PM KeynoteTalk
Title: *Structure and Rotational Dynamics of Methane films on MgO Surfaces*
Presenter John Larese, Univ. Tennessee

Oral Session HD: Research Frontiers in Artificially Structured

Date: Tuesday Afternoon 6/25/02

Room: Cumberland Room

Chair: Suzanne te Velthuis, Argonne National Laboratory

HD-01 1:15 PM KeynoteTalk
Title: *Nanomagnetism and Neutron Scattering*
Presenter Ivan Kohn Schuller, Univ. California, San Diego

HD-02 1:45 PM Invited Talk
Title: *Exchange Biased Co/CoO Bilayers Studied by Magnetization, Anisotropic Magnetoresistance, and Polarized Neutron*
Presenter E. Dan Dahlberg, Univ. Minnesota

HD-03 2:00 PM Invited Talk
Title: *Neutron reflectometry studies of interlayer coupling in all-semiconductor ferromagnetic superlattices*
Presenter Henryk Kepa, Warsaw University

HD-04 2:15 PM Invited Talk
Title: *Off-specular neutron reflectivity studies of magnetic thin films*
Presenter Sunil K. Sinha, UCSD

HD-05 2:30 PM Contributed Talk
Title: *Magnetic properties of ultrathin iron oxide layers in metal/native oxide multilayers*
Presenter Geoffrey S. D. Beach, Univ. California, San Diego

HD-06 2:45 PM Contributed Talk
Title: *Tailoring polarized neutron reflectometry for chiral magnetic structures*
Presenter Kevin V. O'Donovan, NIST

Moderated Discussion Session I

Date: Tuesday Afternoon 6/25/02

Room: Tennessee Ballroom A, B, C

IA-01 3:30 PM
Title: *Tales of a Seasoned User*
Presenter Thomas Russell, University of Massachusetts

IA-02 4:45 PM
Title: *Joint Institute for Neutron Sciences*
Presenter Lee Magid, University of Tennessee

Oral Session JA: Biological/Biomemetic Systems II

Date: Wednesday Morning 6/26/02

Room: Tennessee Ballroom A

Chair: Kalina Hristova, Johns Hopkins University

JA-01 8:30 AM KeynoteTalk
Title: *Neutrons in the Era of the "New" Biology*
Presenter Jill Trehwella, Los Alamos

JA-02 9:00 AM Contributed Talk
Title: *Microscopic views on the structure of lipid surface monolayers: The quest for surface-sensitive neutron scattering*
Presenter Mathias Lösche, Leipzig

JA-03 9:15 AM Invited Talk
Title: *Slow relaxation process: a key to the dynamic transition in DNA and proteins*
Presenter Alexei Sokolov, Univ. Akron

JA-04 9:30 AM Invited Talk
Title: *The dynamics of cytochrome c by quasielastic neutron scattering*
Presenter Adam Pivovar, NIST

JA-05 9:45 AM Contributed Talk
Title: *Influence of hydration and cation binding on a protein dynamics. A study from picosecond up to nanosecond*
Presenter Jean-Marc Zanotti, Argonne

Oral Session JB: Magnetism III

Date: Wednesday Morning 6/26/02
Room: Tennessee Ballroom B
Chair: Jaime Fernandez-Baca, Oakridge National Laboratory

JB-01 8:30 AM KeynoteTalk
Title: *Lattice polarons and pseudogap in colossal magnetoresistance manganites*
Presenter Pengcheng Dai, Univ. Tennessee

JB-02 9:00 AM Invited Talk
Title: *Competing Charge, Orbital, and Magnetic Order in Layered CMR Manganites*
Presenter Raymond Osborn, Argonne

JB-03 9:15 AM Invited Talk
Title: *Dynamics in single crystals measured on the MAPS spectrometer*
Presenter Toby George Perring, Rutherford Appleton Laboratory

JB-04 9:30 AM Invited Talk
Title: *Spin Dynamics of Frustrated Pyrochlore Magnets*
Presenter Jason Stewart Gardner, Chalk River

JB-05 9:45 AM Invited Talk
Title: *Protectorate in a geometrically frustrated magnet*
Presenter Seung-Hun Lee, Univ. Maryland

Oral Session JC: Hydrides and Hydrogen Bonds

Date: Wednesday Morning 6/26/02
Room: Tennessee Ballroom C
Chair: Juergen Eckert, University of California Santa Barbara/LANSCE

JC-01 8:30 AM KeynoteTalk
Title: *Single-Crystal Neutron Diffraction and the Study of Metal-Hydrogen Interactions*
Presenter Thomas F. Koetzle, Argonne

JC-02 9:00 AM Invited Talk
Title: *A Chemist's View of Inelastic Neutron Scattering*
Presenter Bruce Hudson, Syracuse Univ.

JC-03 9:15 AM Contributed Talk
Title: *Dynamics and structural phase transitions of solid mesitylene*
Presenter Ireneusz Natkaniec, Frank Laboratory

JC-04 9:30 AM Contributed Talk
Title: *Ternary Europium Hydrides*
Presenter Holger Kohlmann, Univ. Nevada

JC-05 9:45 AM Contributed Talk
Title: *Neutron scattering study of the high-pressure metal hydrides*
Presenter Alexander I. Kolesnikov, Argonne

Oral Session JD: Nuclear/Particle/Astrophysics with Neutrons II

Date: Wednesday Morning 6/26/02
Room: Cumberland Room
Chair: David Jacobson, NIST

JD-01 8:30 AM Contributed Talk
Title: *Inelastic Neutron Scattering by Ultrasound in Solids*
Presenter Eugene Iolin, Latvian Academy of Sciences

JD-02 8:45 AM Contributed Talk
Title: *Reflectivity measurement for multiple Bragg reflections off a channel-cut perfect Si-crystal*
Presenter Helmut Kaiser, Univ. Missouri

JD-03 9:00 AM Contributed Talk
Title: *A New Technique for Measuring the Electron-Antineutrino Correlation in Neutron Decay*
Presenter Alexander Karl Komives, NIST

JD-04 9:15 AM Contributed Talk
Title: *About radiative corrections in neutron beta-decay*
Presenter Vladimir Gudkov, University of South Carolina

JD-05 9:30 AM Keynote Talk
Title: *Quasi-elastic wall reflections of ultracold neutrons*
Presenter Albert Steyerl, Univ. Rhode Island

Poster Session KP: Instrumentation

Date: Wednesday Morning 6/26/02 10:15 AM - 12:00 PM
Room: Summit Grand Ballroom II

KP-01 Poster

Title: *A single Crystal Diffractometer for SNS*
Presenter Christina Hoffmann, SNS

KP-02 Poster

Title: *ARCS - a wide Angular Range Chopper Spectrometer at the SNS*
Presenter Douglas L. Abernathy, SNS

KP-03 Poster

Title: *A High Performance Hybrid Spectrometer for Single Crystal Inelastic Neutron Spectroscopy at SNS*
Presenter Igor Zaliznyak, Brookhaven

KP-04 Poster

Title: *POWGEN3 - A high-resolution third generation powder diffractometer at the SNS*
Presenter Jason Paul Hodges, SNS

KP-05 Poster

Title: *The SNS Liquids Reflectometer*
Presenter John Francis Ankner, SNS

KP-06 Poster

Title: *Design and Performance of the SNS Backscattering Spectrometer*
Presenter Kenneth W Herwig, SNS

KP-07 Poster

Title: *VULCAN, The Roman God of Fire and Metal Working*
Presenter Xunli Wang, SNS

KP-08 Poster

Title: *Development of Neutron Beam Facilities for the Australian Replacement Research Reactor*
Presenter Elliot Paul Gilbert, ANSTO

KP-09 Poster

Title: *Neutronic Performance of the Spallation Neutron Source*
Presenter Erik B Iverson, SNS

KP-10 Poster

Title: *Neutron Scattering Facilities at Budapest Research Reactor*
Presenter Mike Makai, KFKI Atomic Energy

KP-11 Poster

Title: *Novel investigations and new neutron sources*
Presenter Yuri Andreevich Alexandrov, Frank Laboratory

KP-12 Poster

Title: *Debye-Scherrer Cone Corrections for Linear Position Sensitive Detector Arrays in Neutron Powder Diffraction*
Presenter Ronald R. Berliner, Univ. Michigan

KP-13 Poster

Title: *A New Thermal Neutron Scattering Kernel for Liquid Hydrogen*
Presenter J. Rolando Granada, Argentine Atomic Energy

KP-14 Poster

Title: *IDEAS, Instrument Design and Experiment Assessment Suite*
Presenter W.-T. Lee, SNS

KP-15 Poster

Title: *Neutron Imaging by Reflection Superposition*
Presenter Alexandru D. Stoica, SNS

KP-16 Poster

Title: *Development of an 0.89 nm Monochromator for use with a Superthermal Helium Ultracold Neutron Source*
Presenter Paul R. Huffman, NIST

KP-17 Poster

Title: *Spallation with high energy protons as a source of high spin $178m2\text{Hf}$ isomeric nuclei*
Presenter Claudiu Rusu, Univ. Texas

Poster Session KQ: Chemistry

Date: Wednesday Morning 6/26/02 10:15 AM - 12:00 PM

Room: Summit Grand Ballroom II

KQ-01 Poster

Title: *Synthesis and Structure of Subnitrides and Their Intercalates*

Presenter Amy Bowman, Univ. Nottingham

KQ-02 Poster

Title: *Comparison of the Crystalline, Glass and Liquid Structures of a Sodalite-type Halozeotype*

Presenter Stephen Joseph Goettler, North Carolina State

KQ-03 Poster

Title: *Investigation of ^3He in Erbium Dinitride*

Presenter James F. Browning, Sandia

KQ-04 Poster

Title: *he Structure of Liquid Anhydrous Hydrogen Fluoride using Neutron Diffraction with H/D Substitution.*

Presenter Sylvia E McLain, Univ. Tennessee

KQ-05 Poster

Title: *The structures of molecular deuterium and oxygen adsorbed on carbon nanotube bundles*

Presenter Oscar Edgardo Vilches, University of Washington

KQ-06 Poster

Title: *Nature of the Ag_2S precipitate in $\text{Ag}_2\text{S-AgPO}_3$ amorphous electrolytes*

Presenter Malcolm Frank Collins, McMaster University

KQ-07 Poster

Title: *Optical Implications of Crystallite Symmetry, Structure and Texture in Potassium Niobate Tellurite Glass Ceramics*

Presenter Josef W. Zwanziger, Indiana University

KQ-08 Poster

Title: *Deep Inelastic Neutron Scattering of H_2 Adsorbed in Bristesorb*

Presenter David George Narehood, Pennsylvania State University

Poster Session KR: Soft Condensed Matter

Date: Wednesday Morning 6/26/02 10:15 AM - 12:00 PM

Room: Summit Grand Ballroom II

KR-01 Poster

Title: *Slow Diffusive Motions in Tetracosane Monolayers Adsorbed on Graphite*

Presenter Leah Criswell, Univ. Missouri

KR-02 Poster

Title: *Fast Diffusive Motion in Tetracosane Monolayers Adsorbed on Graphite*

Presenter Armand Diama, Univ. Missouri

KR-03 Poster

Title: *Neutron Investigations of Liquid Dynamics in the Polymer Gels*

Presenter Valeri V. Klepko, National Academy of Sciences of Ukraine

KR-04 Poster

Title: *Structure of PEO-PPO-PEO Gels in Mammalian Cell Medium for Tissue Engineering Applications*

Presenter Surita Rani Bhatia, Univ. Massachusetts

KR-05 Poster

Title: *SANS Study of Structure and Interaction of Triblock Copolymer Micelles: Effects of Molecular Weight and*

Presenter Lixin Fan, Argonne

KR-06 Poster

Title: *Using internal/external contrast variation to study the role of counterion binding in micellar structure*

Presenter Zhibin Li, Univ. Tennessee

KR-07 Poster

Title: *SANS study of the micellization of PEO-PPO-PEO triblock copolymers in aqueous electrolyte solutions*

Presenter Sathish K Sukumaran, Univ. Cincinnati

Poster Session KS: Biology

Date: Wednesday Morning 6/26/02 10:15 AM - 12:00 PM

Room: Summit Grand Ballroom II

KS-01 Poster

Title: *The Role of Binding Sites in Human Serum Albumin Adsorption to Self-Assembled Monolayers*

Presenter Eugene J. Choi, Univ. Akron

KS-02 Poster

Title: *Neutron Diffraction of Alpha, Beta and Gamma Cyclodextrins: Hydrogen Bonding Patterns*

Presenter Brian E Hingerty, ORNL

KS-03 Poster

Title: *Effect of Zinc (Zn²⁺) ions on self-assembly of β -amyloid(10-21) studied by Small Angle Neutron Scattering*

Presenter Jaby Jacob, IPNS

KS-04 Poster

Title: *Electron-Phonon Coupling in the Light-Harvesting Complex II of Green Plants*

Presenter Joerg Pieper, HMI

KS-05 Poster

Title: *Chlorophyll-b and the Regulation of Light-Harvesting Processes in Plants*

Presenter David Worcester, Univ. Missouri

KS-06 Poster

Title: *Small-angle scattering study of sml1 protein and its complex with RNR1 protein*

Presenter Peng Yuan, Oak Ridge

Oral Session LA: Polymer Structure and Thermodynamics II

Date: Wednesday Afternoon 6/26/02

Room: Tennessee Ballroom A

Chair: Rob Briber, University of Maryland

LA-01 1:15 PM KeynoteTalk

Title: *PNIPAM grafted chains at the silicon/water interface: Temperature-dependent conformational changes and protein*

Presenter Michael S. Kent, Sandia

LA-02 1:45 PM Invited Talk

Title: *Microstructure of High Pressure Polyolefin/n-Alkane Solutions*

Presenter John Hollis van Zanten, North Carolina State

LA-03 2:00 PM Contributed Talk

Title: *Polymer thin films in supercritical CO₂*

Presenter Miriam Rafailovich, SUNY Stony Brook

LA-04 2:15 PM Contributed Talk

Title: *The Dynamics of Copolymeric Surface Segregation using Neutron Reflectivity*

Presenter Mark D Dadmun, Univ. Tennessee

LA-05 2:30 PM Contributed Talk

Title: *Polymer Blends as Theta Systems: New SANS Data and Interpretation*

Presenter Yuri B Melnichenko, Oak Ridge

Oral Session LB: Sample Environment and Neutron Detection

Date: Wednesday Afternoon 6/26/02

Room: Tennessee Ballroom B

Chair: Jack Carpenter, Argonne National Laboratory

LB-01 1:15 PM KeynoteTalk

Title: *High-Pressure Techniques and Neutron Scattering*

Presenter Chris A Tulk, SNS

LB-02 1:45 PM Invited Talk

Title: *X-Ray and Neutron Scattering from Levitated Liquids*

Presenter David L. Price, Argonne

LB-03 2:00 PM Contributed Talk

Title: *Polarized ³He-Based Neutron Spin Filters*

Presenter Thomas Richard Gentile, NIST

LB-04 2:15 PM Invited Talk

Title: *Lithium Gadolinium Borate Scintillators*

Presenter J. Bart Czirr, MSI/Photogenics

LB-05 2:30 PM Contributed Talk
Title: *Exotic Concepts of Neutron Detectors For Spallation Neutron Sources*
Presenter Jim Schelten, Juelich GmbH

Oral Session LC: Materials III

Date: Wednesday Afternoon 6/26/02
Room: Tennessee Ballroom C
Chair: Rob McQueeney, LANSCE

LC-01 1:15 PM KeynoteTalk
Title: *First Principles Calculations to Guide and Interpret Neutron Spectroscopy of Materials*
Presenter Taner Yildirim, NIST

LC-02 1:45 PM Invited Talk
Title: *Phonon anomalies in relaxor Pb(Mg_{1/3}Nb_{2/3})O₃*
Presenter Shuichi Wakimoto, Univ. Toronto

LC-03 2:00 PM Invited Talk
Title: *Phonon densities of states and the electronic nature of the volume collapse transition in fcc Ce_{0.9}Th_{0.1}*
Presenter Michael Edward Manley, Los Alamos

LC-04 2:15 PM Invited Talk
Title: *Dynamic Local Jahn-Teller Fluctuations in Cobaltates*
Presenter Despina Louca, Univ. Virginia

LC-05 2:30 PM Invited Talk
Title: *Neutron Scattering Studies of Vortex Matter in Type-II Superconductors: Peak Effect and Bragg-Glass Melting*
Presenter Sean Ling, Brown University