

User Meeting 2015 - Talk Schedule

Plenary Session - Monday Morning, Iran Thomas Auditorium

9:00 AM	Mike Crawford	DuPont	<i>Neutron and X-Ray Scattering Studies of Hybrid Perovskites for Photovoltaic Applications</i>
10:00 AM	Despina Louca	University of Virginia	<i>The structure of the LaOBiS2 superconductor exposed</i>
11:15 AM	Ken Herwig	ORNL	<i>Science Productivity Process and Major Instrument Upgrades</i>

Soft Matter - Monday Afternoon, Iran Thomas Auditorium

1:45 PM	Emiliano Fratini	University of Florence/CSGI	<i>Investigation of physical and chemical hydrogels by neutron scattering</i>
2:15 PM	Xiang-qiang Chu	Wayne State University	<i>Effect of Nanodiamond Surfaces on tRNA Dynamics Studied by Neutron Scattering and MD Simulations</i>
3:15 PM	Antonio Faraone	NIST Center for Neutron Research	<i>Dynamics of Molecular Associates in Hydrogen Bonding Liquids</i>
3:45 PM	Anthony Banks	Florida State University	<i>Small angle neutron scattering of the intrinsically disordered protein flgm under crowded conditions</i>
4:00 PM	Jan-Michael Carrillo	Oak Ridge National Laboratory	<i>Unraveling the dynamics of aminopolymer/silica composites</i>
4:15 PM	Jyotsana LAL	Louisiana State University	<i>Using Small-Angle Neutron Scattering (SANS) to Investigate the Supramolecular Organization of Stimuli-Responsive Amphiphilic Polythiophene Block Copolymers</i>
4:45 PM	Venu Gopal Vandavasi	ORNL	<i>A low resolution structure of CESA1 catalytic domain of Arabidopsis thaliana Cellulose Synthase Complex: Evidence for CESA trimers</i>
5:00 PM	Kai Xiao	Center for Nanophase Materials Sciences, Oak Ridge National Laboratory	<i>Understanding the effect of deuterated conducting polymer and solvent additive on the performance of organic photovoltaics</i>
5:15 PM	Pat Collier	CNMS	<i>Membrane Domain Formation on Nanostructured Scaffolds</i>

Chemical and Engineering Materials - Monday Afternoon, C-156

1:45 PM	Dayakar Penumadu	University of Tennessee	<i>3D mapping of crystallographic phase distribution by energy-selective neutron tomography</i>
2:15 PM	Kate Page	ORNL	<i>TBA</i>
3:15 PM	Adam Moule	University of California, Davis	<i>Dopant Induced Solubility Control in Semiconducting Polymers</i>
3:45 PM	Alan Druschitz	Virginia Tech	<i>The Effects of Chemistry and Particle Morphology on the Transformation Characteristics of Metastable Austenite in Ductile Iron</i>
4:00 PM	Lawrence Falvello	University of Zaragoza / Aragn Materials Science Institute	<i>Molecular Shape Tuning with Pressure in a system coupled to a continuous phase transition: A neutron diffraction study</i>
4:15 PM	Jiahua Zhu	Oak Ridge National Laboratory	<i>Self-assembly and molecular ordering of solution-state conjugated polymers</i>
4:45 PM	Joanna McFarlane	Oak Ridge National Laboratory	<i>Using Neutrons to Study Fluid-Rock Interactions</i>
5:00 PM	Todd Toops	Oak Ridge National Laboratory (ETSD)	<i>Neutron Imaging of Intra-nozzle Fluid Dynamics of Fuel Injectors</i>
5:15 PM	Nick Lavrik	Oak Ridge National Laboratory	<i>Deterministically Nanostructured Surfaces for SANS Investigation of Trapped Nanobubbles</i>

New Advances in Sample Environment - Monday Afternoon, C-152

1:45 PM	Reinhard Boehler	ORNL/Carnegie	<i>Expanding Pressure Capabilities for Neutron Science</i>
2:15 PM	Chris Benmore	Argonne National Laboratory	<i>Ultra-high temperature neutron diffraction</i>
3:15 PM	Iain Dixon & Hub Webers	National High Magnetic Field Laboratory	<i>Magnet Technologies for Neutron Science in Magnetic Fields Over 25 T</i>
3:45 PM	Matthew Connolly	National Institute of Standards and Technology	<i>Chamber for Mechanical Testing in Gaseous Environments with Observation by Neutron or X-ray Scattering</i>
4:00 PM	Rosario Gerhardt	Georgia Institute of Technology	<i>In situ compaction of powders simultaneously characterized by GP-SANS and Impedance Spectroscopy Measurements</i>
4:15 PM	Gary Lynn	ORNL	<i>Sample Environment Panel Discussion Introduction</i>

Materials For Sustainability - Tuesday Morning, Iran Thomas Auditorium

9:00 AM	Jeff Sakamoto	University of Michigan	<i>Superionic conducting ceramic electrolyte enabling Li metal anodes and solid state batteries</i>
9:30 AM	Abhijit Pramanick	City University of Hong Kong	<i>Effect of nanoscale atomic displacement orderings on functional properties of lead-free ferroelectric ceramics</i>
10:30 AM	Steven McIntosh	Chemical and Biomolecular Engineering, Lehigh University	<i>Insights into Solid Oxide Fuel Cell Materials by In-Situ Neutron Diffraction</i>
11:00 AM	Hsiu-Wen Wang	Joint Institute for Neutron Sciences	<i>Resolving the structure of $Ti_3C_2T_x$ MXenes for energy storage applications and more</i>
11:30 AM	Nayomi Plaza	University of Wisconsin - Madison	<i>Informing the Improvement of Forest Products Durability using Small Angle Neutron Scattering</i>
11:45 AM	Janakiraman Balachandran	Postdoctoral Fellow, Center for Nanophase Material Sciences	<i>Proton Conducting Oxides - A Case Study of Disordered Fluorites</i>
12:00 PM	Steven Overbury	Oak ridge National Laboratory	<i>Probing intercalation in Ti MXene using neutron scattering</i>

Hard Matter and Magnetism - Tuesday Morning, C-156

9:00 AM	Sara Haravifard	Duke University	<i>Dimensional Crossover, Long-Range Order, and Magnetic Plateaus in Sheets of Magnetic Dimers</i>
9:30 AM	Marc Janoschek	Los Alamos National Laboratory	<i>Neutron Spectroscopy on the Most Complex Element: Plutonium</i>
10:30 AM	Martin Mourigal	Georgia Institute of Technology	<i>Block Magnetic Excitations in the Orbitally Selective Mott Insulator $BaFe_2Se_3$</i>
11:00 AM	Michael Manley	Oak Ridge National Laboratory	<i>Giant electromechanical coupling of ferroelectric relaxors controlled by local-structure vibrations</i>
11:15 AM	John DiTusa	Louisiana State University	<i>Science Productivity Process and Major Instrument Upgrades</i>
11:30 AM	Shelby Stavretis	University of Tennessee	<i>Probing Molecular Magnetism by Inelastic Neutron Scattering</i>
11:45 AM	Xiaojian Bai	Georgia Institute of Technology	<i>Collective Excitations in the Frustrated Classical Spin Liquid $MgCr_2O_4$</i>
12:00 PM	Maxim Ziatdinov	CNMS, ORNL	<i>Structural and Electronic Characterization of α-$RuCl_3$ Layered Compound</i>

Data Analysis and Visualization - Tuesday Morning, C-152

9:00 AM	Hillary Smith	Caltech	<i>High-temperature Sample Environment Template for Experiment Simulations on DGS Instruments</i>
9:30 AM	Rajeev Kumar	CNMS, ORNL	<i>Entropic effects in polymer thin films</i>
10:30 AM	Chris Chapman	Georgia Institute of Technology	<i>Thermal Neutron Scattering Evaluation Framework</i>
10:45 AM	Dipanshu Bansal	ORNL	<i>Modeling of time-of-flight INS intensity from phonons in single-crystals</i>
11:00 AM	Garrett Granroth	ORNL	<i>NDAV Panel Session Introduction</i>
