





ORNL/Virginia Tech/University of Virginia Joint Workshop on Neutron Scattering for Science and Engineering

Wednesday, September 27, 2017

The Inn at Virginia Tech and Skelton Conference Center

Objective: Establish stronger links between ORNL Neutron Sciences Directorate and Science and Engineering Researchers at Virginia Tech and the University of Virginia.

Time	Event
8:00-8:30 a.m.	Continental Breakfast, Registration
8:30-8:40 a.m.	Welcome by Theresa Mayer Vice President for Research and Innovation Virginia Tech
	OR
	Terry Herdman Virginia Tech Liaison to ORNL Virginia Tech
8:40-9:00 a.m.	Welcome by Andrew Payzant Neutron Sciences Oak Ridge National Laboratory
9:00-9:25 a.m.	Understanding Mechanical Behaviors of Materials by Neutron Scattering Ke An, Neutron Sciences, ORNL
9:25-9:50 a.m.	Neutron Imaging and Tomography Lou Santodonato, Neutron Sciences, ORNL
9:50-10:15a.m.	Powder and Single Crystal Diffraction Bryan Chakoumakos, Neutron Sciences, ORNL
10:15-10:45 a.m.	Coffee Break
10:45-11:10 a.m.	Applications of Neutron Scattering in Geosciences Nancy Ross, Geosciences, VT
11:10-11:35 a.m.	Neutron Scattering as a Probe for Emergent Phenomena in Novel Materials Chunruo Duon, Physics, UVA
11:35 a.m12:00 p.m.	In-situ Neutron Diffraction during Deformation, Phase Transformation, and Crystallographic Texture Evolution Sean Agnew, Materials Science and Engineering, UVA

Time	Event
12:00–12:15 p.m.	Discussion of Future Opportunities for Collaborative Research
12:15-1:45 p.m.	Lunch and Poster Session
1:45-2:10 p.m.	SANS and Reflectometry Volker Urban, Neutron Sciences, ORNL
2:10-2:35 p.m.	Condensed Matter Physics with Neutrons Matt Stone, Neutron Sciences, ORNL
2:35-3:00 p.m.	How to Access Neutron Scattering Facilities Andrew Payzant, Neutron Sciences, ORNL
3:00-3:30 p.m.	Coffee Break
3:30-3:55 p.m.	Elevated Temperature Residual Stress Relaxation Scott Case, Engineering Science and Mechanics, VT
3:55-4:20 p.m.	Understanding Structure Property Relationships in Lead-Free Piezoelectric Materials Using Neutrons Deepam Maurya, Institute for Critical Technology and Applied Science, VT
4:20-4:45 p.m.	Martensitic Transformation in Granular Superelastic Ceramics Hang Yu, Materials Science and Engineering, VT
4:45-5:00 p.m.	Discussion of Future Opportunities for Collaborative Research All participants