

Neutron Sciences in Support of Nuclear Power

2019 Workshop



Thursday, May 16: Day 1

1:00 p.m.	Registration Opens
2:00 p.m.	Welcome Ken Littrell , Workshop Chair, Oak Ridge National Laboratory
2:30 p.m.	SNS Tours—Meet in Building 8600 lobby HFIR & LAMDA Tours--Vans outside main entrance of Building 8600
3:30 p.m.	SNS Tours—Meet in Building 8600 lobby HFIR & LAMDA Tours--Vans outside main entrance of Building 8600
4:30 p.m.	<i>Poster Reception-Ken Littrell, Host (in lieu of working dinner)</i>
6:30 p.m.	Close of Day

Friday, May 17: Day 2

8:00 a.m.	Registration Begins
9:00 a.m.	Welcome Tim Powers , Division Director, Research Reactors Division Oak Ridge National Laboratory
9:30 a.m.	<i>“Thermal Neutron Scattering: Defining the Physics of Power Reactors”</i> Ayman Hawari , North Carolina University
10:00 a.m.	<i>“SANS and Neutron Diffraction Studies of Fusion Materials and Components”</i> Roberto Coppola , ENEA Research Center
10:30 a.m.	<i>Collaboration Break-Photo</i>
11:00 a.m.	<i>“Using Good Neutrons (SANS) to Fight Bad Neutrons (Radiation Damage)”</i> Brian Wirth , University of Tennessee Knoxville

11:30 a.m.	<p><i>“Unraveling the Spectroscopic Signatures of Nuclear Waste: What’s Next with Neutrons?”</i></p> <p>Carolyn Pearce, Pacific Northwest National Laboratory</p>
12:00 p.m.	Round Robin Working Lunch*:
12:00 p.m.	<p>Speakers include:</p> <p>Ke An, Neutron Scattering Division, Oak Ridge National Laboratory – <i>Diffraction</i></p> <p>Hassina Bilheux, Neutron Scattering Division, Oak Ridge National Laboratory –<i>Imaging</i></p> <p>Richard Howard, Reactor and Nuclear Systems Division, Oak Ridge National Laboratory –<i>Irradiation Testing</i></p> <p>Alexander Kolesnikov, Neutron Scattering Division, Oak Ridge National Laboratory–<i>Inelastic and Quasielastic</i></p> <p>Ken Littrell, Neutron Scattering Division, Oak Ridge National Laboratory–<i>SANS</i></p> <p>Chad Parish, Oak Ridge National Laboratory–Low Activation Materials Development and Analysis Laboratory (LAMDA),</p>
1:00 p.m.	<p><i>“The Fertile Yet Untilled Ground of Neutron Scattering Applied to Hydrogen in Zr-based LWR Alloys”</i></p> <p>Brent Heuser, University of Illinois</p>
1:30 p.m.	<p><i>“Characterization of Solvating Extractants in f-Element Separations”</i></p> <p>Jenifer Shafer, Colorado School of Mines</p>
2:00 p.m.	Collaboration Break
2:30 p.m.	<p><i>“The Application of Advanced Microstructural Characterization Techniques for Investigating the Performance of Neutron-irradiated U-Mo Alloys”</i></p> <p>Dennis Keiser, Idaho National Laboratory</p>
3:00 p.m.	<p><i>“Fundamental Molten Salt Research and the Importance of Neutron Studies of Salt Structure”</i></p> <p>Jim Wishart, Brookhaven National Laboratory</p>

3:30 p.m.	<i>“Connecting Processing, Structure, Properties, and Performance in Metallic Nuclear Fuels by Using Neutrons as a Diagnostic Tool and to Create Damage”</i> Maria Okuniewski, Purdue University
4:00 p.m.	Open Discussion
5:00 p.m.	Adjourn

*Round Robin Lunch: 10-minute talks given by subject matter experts to lead lunch discussion.