

# NEUTRON DAY — 2019

*“Solving Grand Challenge Problems in Science & Engineering with Neutrons”*

Co-sponsored by

Center for Neutron Science (CNS)

National Institute for Standards & Technology Center for Neutron Research (NCNR)

University of Delaware College of Engineering

Wednesday, October 30<sup>th</sup>, 2019

Clayton Hall, University of Delaware, Newark DE

TIME	EVENT/SPEAKER	PRESENTATION TITLE	LOCATION
9:00 a.m.	<b>Registration Opens, Continental Breakfast &amp; Poster Set-Up</b>		Clayton Hall Lobby
10:00 a.m.	<b>Welcome Remarks by Norman Wagner</b> Director, Center for Neutron Science & NIST Center for Neutron Research		Clayton Hall Auditorium 125
10:05 a.m.	<b>Welcome Remarks by Charles Riordan</b> Vice-President, Research, Scholarship & Innovation		Clayton Hall Auditorium 125
10:10 a.m.	<b>Dr. Tessema Guebre</b> Program Director, NSF	<i>“NSF support for Neutron Scattering Instrumentation and Facilities”</i>	Clayton Hall Auditorium 125
10:20 a.m.	<b>Dan Neumann</b> Group Leader for Neutron Condensed Matter Science NCNR	<i>“Advances in Neutron Scattering Instrumentation and Methods at the NCNR”</i>	Clayton Hall Auditorium 125
10:30 a.m.	<b>Antonio Faraone</b> NCNR	<i>“A World-Class NSE at the NCNR funded by the NSF”</i>	Clayton Hall Auditorium 125
10:50 p.m. <b>KEYNOTE</b>	<b>Mike Hore</b> CWRU	<i>“Local Structure and Relaxation Dynamics of Poly(methyl acrylate)-Grafted SiO<sub>2</sub> Nanoparticles”</i>	Clayton Hall Auditorium 125
11:10 a.m.	<b>Break</b>		Clayton Hall Lobby
11:30 a.m.	<b>Jannat Nayem</b> CNS, CBE	<i>“Measuring Temperature Activated Internal Dynamics of NISTmAb via NSE”</i>	Clayton Hall Auditorium 125
11:50 a.m.	<b>Liz Kelley</b>	<i>“Measuring Lipid Membrane Dynamics with NSE”</i>	Clayton Hall Auditorium 125
12:10 a.m. –1:40 p.m.	<b>Lunch &amp; Poster Session</b>		Clayton Hall 101A & Lobby
1:40 p.m.	<b>Craig Brown</b> CNS-NCNR	<i>“Using Neutrons to Find H<sub>2</sub> Adsorbed in Highly Porous Materials”</i>	Clayton Hall Auditorium 125
2:00 p.m.	<b>Darrin Pochan</b> CNS-MSE	<i>“Biomolecules for Non-Biological Things: SANS Exploration of Synthetic Peptide Nanostructures”</i>	Clayton Hall Auditorium 125
2:20 p.m.	<b>Ryan Murphy</b> NCNR	<i>“Capillary Rheosans: Measuring Rheology and Nanostructure at High Shear Rates”</i>	Clayton Hall Auditorium 125
2.40 p.m.	<b>Chris Roberts</b> CNS-CBE & NIIMBL	<i>“Protein Stability, Structural Changes, and Pressure at Cold Temperatures: In Situ Approaches With Neutrons”</i>	Clayton Hall Auditorium 125
3:00 p.m.	<b>Closing Remarks by Norman Wagner &amp; Dan Neumann</b>		Clayton Hall Auditorium 125
3:05 p.m. 3:30+ p.m.	<b>Posters and UD Creamery</b>		Clayton Hall Lobby

