

## 2022 Past NCNR Seminars – Abstracts available upon request

Date	Speaker	Title and host
Jan 24	<b>Carlos Marques</b> , Institut Charles Sadron, France	<b>Accumulation of styrene oligomers alters lipid membrane phase order and miscibility.</b> Contact: <a href="#">Susana Teixeira</a>
Feb 10	<b>Mingda Li</b> , Massachusetts Inst. of Technology	<b>Probing quantum materials with the lens of machine learning.</b> Contact: <a href="#">Jeff Lynn</a>
Feb 28	<b>Jennifer Gilbert</b> , Lund University/ Sweden	<b>Lipid sponge phase as a matrix for enzyme encapsulation: structure and dynamics.</b> Contact: <a href="#">Susana Teixeira</a>
Mar 4	<b>Miguel Cerqueira</b> , International Iberian Nanotech. Lab/ Portugal	<b>Nanotechnology in the food industry: plenty of room to innovate.</b> Contact: <a href="#">Susana Teixeira</a>
Mar 31	<b>Emilia Morosan</b> , Department of Physics, Rice University	<b>The rich physics of a square lattice: correlations and topology in the Eu(Al,Ga)4 compounds.</b> Joint seminar with the Quantum Materials Center at the Univ. Maryland. Contact: <a href="#">Jeff Lynn</a>
Apr 21	<b>David Hoogerheide</b> , NIST Center for Neutron Research	<b>Towards higher-resolution neutron reflectometry measurements with CANDOR.</b> Contact: <a href="#">Susana Teixeira</a>
Apr 28	<b>Steve Granick</b> , Institute of Basic Science, South Korea	<b>The enzyme problem in active matter: puzzles and research opportunities.</b> Contact: <a href="#">Antonio Faraone</a> or <a href="#">Yun Liu</a>
May 31	<b>Rony Granek</b> , Ben-Gurion Univ., Negev & The Ilse Katz Inst. Meso and Nano. Sc. Tech.   Israel	<b>Dynamic Structure Factor of Membranes and Proteins: Past, Present and Future.</b> Contact: <a href="#">E. Kelley</a> or <a href="#">M. Nagao</a>
Jun 15	<b>Jacob Gayles</b> , Quantum Chiraltronics Group, Univ. South Florida in Tampa	<b>Multi-band topological Semimetals .</b> Contact: <a href="#">William Ratcliff</a>
Jun 21	<b>Amy Xu</b> , Louisiana State University	<b>How neutron scattering can aid the formulation development of biopharmaceuticals.</b> Contact: <a href="#">Susana Teixeira</a>
Jun 23	<b>Norman Wagner</b> , University of Delaware	<b>Exploring Soft Matter and Biological Materials using Neutron Spin Echo.</b> Contact: <a href="#">Susana Teixeira</a>
Jun 29	<b>Ryan Murphy</b> , NIST Center for Neutron Research	<b>Scattering: looking at everything while looking at nothing.</b> Contact: <a href="#">Susana Teixeira</a>
July 29	<b>Andrea Scotti</b> , RWTH Aachen University, Germany	<b>Phase behavior and structure of super soft spheres in two and three dimensions.</b> Organized by the Center for Neutron Science, University of Delaware.
July 29	<b>Peter Falus</b> , Institut Laue Langevin, France	<b>WASP the Wide Angle Spin Echo instrument is in user operation.</b> Contact: <a href="#">Yun Liu</a>
Aug 1	<b>Judith Houston</b> , European Spallation Source, Sweden	<b>Harnessing SANS for spatially and time-resolved soft matter experiments: LoKI at the ESS.</b> Contact: <a href="#">Paul Butler</a>
Aug 15	<b>Xin Gu</b> , Oak Ridge National Laboratory	<b>Probing porosity in organic-rich shale by neutron scattering: from energy reservoir to weathering.</b> Contact: <a href="#">Susana Teixeira</a>
Aug 22	<b>Matthew Helgeson</b> , Univ. California, Santa Barbara	<b>New tools to analyze, model and interpret scattering anisotropy in field-driven soft matter.</b> Contact: <a href="#">Peter Gilbert</a>
Aug 26	<b>Isaiah Borne</b> , Georgia Institute of Technology	<b>Engineering Porous Organic Cages into Porous Liquids.</b> Contact: <a href="#">Craig Brown</a>
Sep 19	<b>Michael E. Flatté</b> , Dep. Physics and Astronomy, University of Iowa	<b>IEEE Magnetics Society Distinguished Speaker.</b> Contact: <a href="#">Dan Gopmann</a> or <a href="#">Julie Borchers</a>

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Sep 21	<b>Devin Burke</b> , McMaster University, Ontario, Canada	<b>Commissioning the Small Angle Neutron Scattering laboratory at the McMaster Nuclear Reactor.</b> Contact: <a href="#">Peter Gilbert</a>
Oct 6	<b>Tiffany Santos</b> , Western Digital, California	IEEE Magnetics Society Distinguished Lecture: <b>Spins, Bits, and Flips: Essentials for High-Density Magnetic Random Access Memory.</b> Contact: <a href="#">Dan Gopmann</a>
Oct 24	<b>Yaniv Shaposhnik</b> , NRCN, Israel/NCNR	<b>The SL1 nuclear reactor accident.</b> Contact: <a href="#">Dagistan Sahin</a>
Nov 3	<b>Stephen Wilson</b> , Univ. California-Santa Barbara	<b>Intertwined Charge Density Wave Order and Superconductivity in New Classes of Kagome Metals.</b> Organized by UMD/NCNR. Contact: <a href="#">Jeffrey Lynn</a>
Nov 7	<b>Stephen Wilke</b> , Materials Development Inc., Evanston, Illinois	<b>Levitation opens experimental doors to nonequilibrium and extreme conditions.</b> Contact: <a href="#">Antonio Faraone</a>
Nov 18	<b>Michael Shulz</b> , Virginia Tech	<b>Exploring the connections between chelating polymer structure and rare-earth element binding thermodynamics.</b> Contact: <a href="#">Rachel Ford</a>
Dec 14	<b>Roger Pynn</b> , Indiana University, Bloomington	<b>Neutron Entanglement and Coherence,</b> Contact: <a href="#">Charles Majkrzak</a>