

Thursday, June 5th 2025

8:30-8:50	Visitor Check in at Badging Office
8:50-9:00	Coffee and pastries
9:00-9:10	Welcome messages from AMES CRO Jaime Morris
9:10-9:50	Marek Pruski (AMES) Solid State NMR Spectroscopy at the Ames Laboratory: A Brief History
9:50-10:10	Julian Chen (LANL) Overview of biological NMR capabilities at LANL
10:10-10:30	Bennett Addison (NREL) NMR at NREL: A Cross-Cutting Capability for Energy Innovation (<i>Frédéric A. Perras presiding</i>)
10:30-10:45	Coffee Break
10:45-11:05	Keith Fritzsche (SNL) NMR inside metal coin cell and pouch cell batteries: removing artifacts and increasing sensitivity
11:05-11:25	Evelyna Wang (ANL) Solid-State NMR Applications in Electrochemical Energy Storage Materials at ANL
11:25-11:45	Michi Hirata (LANL) Overview of Solid-State Physics NMR Capabilities at LANL
11:45-12:05	Aaron J. Rossini (AMES) Advancing the Science of Semiconductor Nanomaterials by Sensitivity-Enhanced Solid-State NMR Spectroscopy (<i>Frédéric A. Perras presiding</i>)
12:05-1:30	Working Lunch and Open Discussion
1:30-2:30	Poster Session
2:30-2:50	Maxwell Marple (LLNL) Development of Low-field, Single-Sided Nuclear Magnetic Resonance Methods for Tritium Measurements
2:50-3:10	Yuji Furukawa (AMES) Ongoing research projects from my low-temperature and high-pressure NMR laboratory
3:10-3:30	Corey Pilgrim (INL) Overview of the Magnetic Resonance Capabilities at INL
3:30-3:50	Harris E. Mason (LANL) Recent advances in solid-state NMR spectroscopy of actinides (<i>Aaron J. Rossini presiding</i>)
3:50-4:05	Coffee Break
4:05-4:25	Derrick C. Kaseman (LLNL) Comparison of Synthesis and Chemical Attribution Signatures of Novichok Agent A-232

4:25-4:45	Josh Damron (ORNL) Molecular Dynamics Unveiled: NMR Characterization of Composite Interfaces and Vitrimer Networks
4:45-5:05	Adam Dioguardi (LANL) ^{239}Pu NMR in PuB_4
5:05pm	Closing remarks

Friday, June 6th 2025

8:30-8:40	Welcome to day 2 of the meeting
8:40-9:00	Frédéric A. Perras (AMES) Methyl-Driven Overhauser DNP
9:00-9:20	Sejun Park (LANL) NMR study of V Kagome lattice YbV_6Sn_6
9:20-9:40	Leah Rynearson (ANL) Real-Time and Operando NMR of Lithium- and Sodium-Ion Batteries
9:40-10:00	Noella D'Souza (LBNL) Quantum Sensing with Optically Hyperpolarized Spins (<i>Harris E. Mason presiding</i>)
10:00-10:15	Coffee Break
10:15-10:35	Benjamin A. Atterberry (AMES) Enhancing Solid-State NMR Sensitivity: Indirect Detection Methods for Platinum and Rhodium
10:35-10:55	Herman Cho (PNNL) Solid State NMR Spectroscopy of Actinide Systems: The Why and How
10:55-11:35	Robert Schurko (NHMFL) High Magnetic Fields, Tricky Nuclei: Pushing the Limits of Solid-State NMR Spectroscopy
11:35-11:40	Closing Remarks and Bagged Lunches (<i>Harris E. Mason presiding</i>)
11:40-12:20	Optional Tours of NMR Labs