2025 Vehicle Technologies Office Annual Merit Review
Batteries R&D (BAT) Oral Presentation Detailed Schedule

Tuesday, June 3, 2025	
9:00 AM	**BAT054:** Modeling of Amorphous Solid-State Conductors, Gerd Ceder, LBNL
9:15 AM	
9:30 AM	**BAT091:** Characterization and Modeling of Li-Metal Batteries, First Principles Modeling and Machine Learning, Kristin Ceder-Persson, LBNL
9:45 AM	
10:00 AM	**Bat309:** Mathematical Modeling of Beyond Lithium-ion Batteries, Venkat Srinivasan, ANL
10:15 AM	
10:30 AM	**Bat085**: Interfacial Processes- Diagnostics: Characterization and Modeling of Lithium-Metal Batteries, Robert Kostecki, LBNL
10:45 AM	
11:00 PM	**BAT619:** The Role of Thermodynamics and Kinectics on the Coulombic Efficiency of Lithium Metal Batteries with FEC and DME-based Electrolytes, Yang Shaohorn, MIT
11:15 PM	
11:30 PM	**Time Buffer**
11:40 PM	**Lunch Break**
1:10 PM	**BAT620:** Lithium Metal Anode Stability Against Soft and Hard Solid Electrolytes, Nitash Balsara, LBNL
1:25 PM	
1:40 PM	**BAT285:** Investigation of Sulfur Reaction Mechanisms, Enyuan Hu, BNL
1:55 PM	
2:10 PM	**BAT280:** Novel Chemistry Lithium -Selenium and Selenium-Sulfur Couple, Khalil Amine, ANL
2:25 PM	
2:40 PM	**BAT555:** Advanced Polymer Materials for Batteries, Zhenan Bao, Stanford University
2:55 PM	
3:10 PM	**Time Buffer**
3:15 PM	**Break**
3:45 PM	**BAT621:** overview of cathode portfolio, Carine Steinway, U.S. Department of Energy
3:50 PM	**BAT569:** Earth-abundant Cathode Active Materials for Li-Ion Batteries: Program Overview, Jason Croy, ANL
4:10 PM	**BAT570:** Cation-disordered Cathode Materials (DRX+) - Overview and Progress Update, Gerd Ceder, LBNL
4:30 PM	Q & A for BAT569 & BAT570
4:45 PM	**BAT167**: Process Development and Scale-Up of Advanced Active Battery Materials, Ozge Kahvecioglu, ANL
5:00 PM	
5:15 PM	**Day 1 Ends**

Wednesday, June 4, 2025	
9:00 AM	**BAT470:** Process R&D Using Supercritical Fluid Reactors, Youngho Shin, ANL
9:15 AM	
9:30 AM	**BAT607:** Processing and scale-up of high energy density cobalt-free cathodes, Ilias Belharouak, Oak Ridge National Laboratory
9:45 AM	
10:00 AM	**BAT315:** Process R&D for Droplet-Produced Powdered Materials, Joe Libera, ANL
10:15 AM	
10:30 AM	**BAT168:** Process Development and Scale-Up of Critical Battery Materials - Continuous Flow-Produced Materials, Trevor Dzwiniel, ANL
10:45 AM	
11:00 PM	**BAT028:** Materials Benchmarking Activities for Cell Analysis, Modeling, and Prototyping (CAMP) Facility Wenquan Lu, ANL
11:15 PM	
11:30 PM	**Time Buffer**
11:40 PM	**Lunch Break**
1:10 PM	**BAT631:** Overview of VTO Battery Recycling Activities, Tina Chen and Jake Herb, VTO
1:25 PM	
1:40 PM	**BAT377:** ReCell–Overview and Update, Jeffrey Spangenberger, Argonne National Laboratory
1:55 PM	
2:10 PM	**BAT573:** ReCell Center-Design for Sustainability, Kandler Smith, National Renewable Energy Laboratory
2:25 PM	
2:40 PM	**BAT572:** ReCell Center-Advanced Resource Recovery, Yaocai Bai, Oak Ridge National Laboratory
2:55 PM	
3:10 PM	**Time Buffer**
3:15 PM	**Break**
3:45 PM	**BAT571:** ReCell Center-Direct Recycling of Materials, Albert Lipson , Argonne National Laboratory
4:00 PM	
4:15 PM	**BAT574:** ReCell Center-Modeling and Analysis, Sabine Gallger and Fulya Dogan Key, Argonne National Laboratory
4:30 PM	
4:45 PM	
5:00 PM	
5:15 PM	**Day 2 Ends**

Thursday, June 5, 2025	
9:00 AM	**BAT576:** Solid State Batteries with Long Cycle Life and High Energy Density, Haegyum Lawrence Berkeley National Laboratory
9:15 AM	
9:25 AM	**BAT577:** Low-Pressure All-Solid State Cells, Tony Burrell, National Renewable Energy Laboratory
9:40 AM	
9:50 AM	**BAT578:** Stable Solid-State Electrolyte and Interface for High-Energy Density Lithium-Sulfur Battery, Dongping Lu, Pacific Northwest National Laboratory
10:05 AM	
10:15 AM	**BAT579:** Multifunctional Gradient Coatings for Scalable High-Energy Density Sulfide-Based Solid-State Batteries, Justin Connell, Argonne National Laboratory
10:30 AM	
10:40 AM	**BAT580:** Thick Selenium-Sulfur Cathode Supported Ultra-thin Sulfide Electrolytes for High-Energy All-Solid-State Batteries, Guiliang Xu, Argonne National Laboratory
10:55 AM	
11:05 PM	**BAT581:** Precision Control of the Lithium Surface for Solid-State Batteries, Andrew Westover, Oak Ridge National Laboratory
11:20 PM	
11:30 PM	**Time Buffer**
11:40 PM	**Lunch Break**
1:10 PM	**BAT582:** Inorganic-Polymer Composite Electrolytes with Architecture Design for Lithium Metal Solid-State Batteries, Enyuan Hu, Brookhaven National Laboratory
1:25 PM	
1:40 PM	**BAT583:** Development of All-Solid-State Battery Using Anti-Perovskite Electrolyte, Zonghai Chen, Argonne National Laboratory
1:55 PM	
2:10 PM	**BAT622:** Thin Composite Solid Electrolyte for Li Metal Batteries, Chunsheng Wang, University of Maryland
2:25 PM	**BAT623:** Optimizing Cathode Architecture for Solid-State Li metal-Sulfur Batteries, Eric Wachsman, University of Maryland
2:40 PM	**BAT624:** Scalable Noble-metal-free Interlayer Design for Sheet-type Dendrite-free Solid-state Lithium Metal Batteries, Yan Yao, University of Houston
2:55 PM	**BAT625:** Development of High Energy Density All Solid-State Li Batteries Enabled through Optimized Electrochemical Interface and Enginee Wisconsin Milwaukee
3:10 PM	**Break**
3:45 PM	**BAT626:** Development of Thin, Robust, Lithium-Impenetrable, High-Conductivity, Electrochemically Stable, Scalable, and Low-Cost Glassy Solid Electrolytes, Steve W. Martin, Iowa State
4:00 PM	**BAT627:** Developing Materials to Enable High-Energy- for Solid-State Li-S Batteries, Donghai Wang, SMU
4:15 PM	**BAT628:** Molecular Ionic Composite Solid Electrolytes for Long-Cycling and High Voltage Li-Metal Batteries, Louis Madsen, Virginia Polytechnic Institute
4:30 PM	**BAT629:** Stable Sulfide-based Anode-Free and Anode-Limited All-Solid-State Lithium Battery, Puru Jena, Virginia Commonwealth University
4:45 PM	**BAT630:** Blocking Li Metal Dendrites In Solid Electrolytes With Ion-Exchange Induced Residual Stresses, Brian W. Sheldon, Brown University
5:00 PM	
5:15 PM	**Day 3 Ends**