

Tuesday, June 2 Poster Presentations, 6:00–8:00 p.m.		
Advanced Motors and Power Systems (AMPS)		
AMP344	Scaled Smart Charge Management (SCM)	Eric Wood, National Laboratory of the Rockies
AMP345	EVolve	Jason Harper, Argonne National Laboratory
AMP346	Stakeholder Toolkit for Vehicles and Grid	Elizabeth Jackson, DOE Fellow (ORISE)
Battery R&D (BAT)		
BAT028	Materials Benchmarking Activities for Cell Analysis, Modeling, and Prototyping (CAMP) Facility	Wenquan Lu, Argonne National Laboratory
BAT054	Modeling of Amorphous Solid-State Conductors	Gerbrand Ceder, University of California-Berkeley
BAT085	Interfacial Processes	Robert Kostecki, Lawrence Berkeley National Laboratory
BAT091	Characterization and Modeling of Lithium-Metal Batteries: First-Principles Modeling and Machine Learning	Kristin Persson, Lawrence Berkeley National Laboratory
BAT167	Process Development and Scale-Up of Advanced Active Battery Materials	Ozge Kahvecioglu, Argonne National Laboratory
BAT168	Process Development and Scale-Up of Critical Battery Materials - Continuous Flow-Produced Materials	Trevor L. Dzwiniel, Argonne National Laboratory
BAT225	Model System Diagnostics for High-Energy Cathode Development	Guoying Chen, Lawrence Berkeley National Laboratory
BAT226	Probing Interfacial Processes Controlled Electrode Stability in Rechargeable Batteries	Chongmin Wang, Pacific Northwest National Laboratory; National Laboratory of the Rockies
BAT230	Nanostructured Design of Sulfur Cathode for High-Energy Lithium-Sulfur Batteries	Yi Cui, Stanford University/SLAC
BAT272	Pre-Lithiation of High-Capacity Battery Electrodes	Yi Cui, Stanford University/SLAC
BAT275	Lithium Dendrite Prevention for Lithium Batteries	Jie Xiao, Pacific Northwest National Laboratory; National Laboratory of the Rockies
BAT280	Novel Chemistry: Lithium-Selenium and Selenium-Sulfur Couple	Khalil Amine, Argonne National Laboratory
BAT282	Development of High-Energy Lithium-Sulfur Batteries	Dongping Lu, Pacific Northwest National Laboratory; National Laboratory of the Rockies
BAT285	Investigation of Sulfur Reaction Mechanisms	Enyuan Hu, Brookhaven National Laboratory
BAT286	Lithium-Air Batteries	Khalil Amine, Argonne National Laboratory
BAT287	Advanced In Situ Diagnostic Techniques for Battery Materials	Xiao-Qing Yang, Brookhaven National Laboratory
BAT309	Mathematical Modeling of Beyond Lithium-Ion Batteries	Venkat Srinivasan, Argonne National Laboratory
BAT315	Process R&D for Droplet-Produced Powdered Materials	Joseph Libera, Argonne National Laboratory
BAT377	ReCell – Overview and Update	Jeffrey Spangenberg, Argonne National Laboratory
BAT420	Lithium Oxygen Battery Design and Predictions	Larry Curtiss, Argonne National Laboratory
BAT423	Development of New Electrolytes for Lithium-Sulfur Batteries	Gao Liu, Lawrence Berkeley National Laboratory
BAT424	Multiscale Modeling of Solid-State Electrolytes for Next-Generation Lithium Batteries	Anh Ngo, Larry Curtiss & Venkat Srinivasan, Argonne National Laboratory
BAT427	In Situ and Operando Thermal Diagnostics of Buried Interfaces in Beyond Lithium-Ion Cells	Sumajeet Kaur, Lawrence Berkeley National Laboratory
BAT470	Process R&D Using Supercritical Fluid Reactors	Youngho Shin, Argonne National Laboratory
BAT571	ReCell Center-Direct Recycling of Materials	Albert Lipson, Argonne National Laboratory
BAT572	ReCell Center-Advanced Resource Recovery	Jaclyn Coyle, National Laboratory of the Rockies
BAT574	ReCell Center-Modeling and Analysis	Sabine Key & Fulya Dogan Key, Argonne National Laboratory
BAT576	Solid State Batteries with Long Cycle Life and High Energy Density	Haegyum Kim, Lawrence Berkeley National Laboratory
BAT577	Low-Pressure All-Solid State Cells	Anthony Burrell, National Laboratory of the Rockies
BAT578	Stable Solid-State Electrolyte and Interface for High-Energy Density Lithium-Sulfur Battery	Dongping Lu, Pacific Northwest National Laboratory
BAT579	Multifunctional Gradient Coatings for Scalable High-Energy Density Sulfide-Based Solid-State Batteries	Justin Connell, Argonne National Laboratory
BAT580	Thick Selenium-Sulfur Cathode Supported Ultra-thin Sulfide Electrolytes for High-Energy All-Solid-State Batteries	Guiliang Xu, Argonne National Laboratory
BAT581	Precision Control of the Lithium Surface for Solid-State Batteries	Andrew Westover, Oak Ridge National Laboratory
BAT582	Inorganic-Polymer Composite Electrolytes with Architecture Design for Lithium Metal Solid-State Batteries	Enyuan Hu, Brookhaven National Laboratory
BAT583	Development of All-Solid-State Battery Using Anti-Perovskite Electrolyte	Tao Li, Argonne National Laboratory
BAT584	Integrated Atomic-, Meso-, and Micro-Scale Diagnostics of Solid-State Batteries	Will Chueh, Stanford University/SLAC
BAT585	Anode-Free Lithium Batteries	Jun Liu, Pacific Northwest National Laboratory
BAT587	Earth-abundant Cathode Active Materials for Li-Ion Batteries: Theory and Modeling	Hakim Iddir, Argonne National Laboratory
BAT588	Earth-abundant Cathode Active Materials for Li-Ion Batteries: System Analysis	Daniel Abraham, Argonne National Laboratory
BAT589	Cation-disordered Cathode Materials (DRX+) - Synthesis, Scale-up and Cell Testing	Lawrence Berkeley National Laboratory and Argonne National Laboratory
BAT597	Cation-disordered Cathode Materials (DRX+) - Electrolyte Innovation and High-voltage Stability	Bryan McCloskey & Kristin Persson, Lawrence Berkeley National Laboratory
BAT598	Cation-disordered Cathode Materials (DRX+) - Coatings and Electrode Design	Vincent Battaglia & Haegyum Kim, Lawrence Berkeley National Laboratory
BAT607	Processing and scale-up of high energy density cobalt-free cathodes	Ilias Belharouak, Oak Ridge National Laboratory
BAT608	Cathode-Electrolyte Interphase (CEI) Consortium (Thrust 1): Model cathode materials for next-generation Li-ion batteries	Jie Xiao, Pacific Northwest National Laboratory
BAT609	Cathode-Electrolyte Interphase (CEI) Consortium (Thrust 2): Electrolytes and CEI at high voltages	Jordi Cabana, Argonne National Laboratory
BAT610	Cathode-Electrolyte Interphase (CEI) Consortium (Thrust 3): Characterization and modeling to understand CEI	Amy Marschlok, Brookhaven National Laboratory
BAT637	High Entropy Layered Mn-rich Cathode Materials	Amy Marschlok, Brookhaven National Laboratory
BAT650	Comparing strategies to collect battery-containing devices in states with and without electronics recycling laws	Ruby Nguyen, Idaho National Laboratory
BAT652	Aqueous Battery Consortium (ABC) Hub: Probing hydrotrope-driven high concentration aqueous electrolytes for reversible metal anodes using advanced X-ray spectroscopy	Xueli (Sherry) Zheng, SLAC National Accelerator Laboratory (ABC Hub)
BAT653	Energy Storage Research Alliance (ESRA) Hub: Accelerating solid state electrochemistry with correlative characterization and machine learning	Shirley Meng, Argonne National Laboratory (ESRA Hub)
BAT654	Fast and Cooperative Ion Transport in Polymer Electrolytes (FaCT): Mechanistic Studies of Ion Transport Enhancement in Composite Polymer Electrolytes	Chelsea Chen, Oak Ridge National Laboratory (FaCT EFRC)
BAT655	Mechano-chemical Understanding of Solid Ion Conductors (MUSIC): Bridging mechano-chemical knowledge gaps to enable advanced energy storage solutions	Jeff Sakamoto, Michigan (MUSIC EFRC)
BAT680	Development towards Safe Low-Cost Transportation and Processing of Consumer Electronic Devices	Albert Lipson, Argonne National Laboratory
Materials Technology (MAT)-Composites and Joining		
MAT174	Carbon-Fiber Technology Facility (CFTF)	Theodore Merlin, Oak Ridge National Laboratory
MAT198	Development of Tailored Fiber Placement, Multi-Functional, High-Performance Composite Material Systems for High Volume Manufacture of Structural Battery Enclosure	Venkat Aitharaju, General Motors Company
MAT204	New Frontier in Polymer Matrix Composites via Tailored Vitrimers Chemistry	Tomonori Saito, Oak Ridge National Laboratory
MAT211	Sustainable Lightweight Intelligent Composites (SLIC) for Next-Generation Vehicles	Masato Mizuta, Newport Sensors, Inc.
MAT212	Integrated Self sufficient Structurally Integrated Multifunctional Sensors for Autonomous Vehicles	Serena Wang, Acellent Technologies, Inc.
MAT265	Low-Cost Multifunctional Composites from Recycled Materials for Lighter and Smarter Vehicles	Xiaodong Li, University of Virginia
MAT266	Development and Manufacturing of Multifunctional Energy Storage Composites (MES) for Automotive Vehicles	Amrita Kumar, Acellent Technologies, Inc.
MAT267	Multiscale Bioinspired Enhancement of Natural-Fiber Composites for Green Vehicles	Lorenzo Mencatteli, Helicoid Industries, Inc.
MAT311	Transforming Carbon Fiber-Reinforced Polymer Wastes into Recyclable Structural Automotive Components	Jinwen Zhang, Washington State University
MAT312	Cost-effective Circular Manufacturing of Lightweight Vehicle Shells and Battery casing by Recyclable-by-Design Polymer Composites	Chen Wang, University of Utah
MAT313	Sustainable Circular Manufacturing of Automotive Composites	Brett Helms, Lawrence Berkeley National Laboratory