2024 Vehicle Technologies Office Annual Merit Review Electrification R&D (ELT) Oral Presentation Detailed Schedule

Tuesday, June 4, 2024	Wednesday, June 5, 2024	Thursday, June 6, 2024
Tuesday, June 4, 20249:00 AMELT209: High-Voltage, High-Power Density Traction-Drive9:15 AMInverter, Gui-Jia Su, ORNL9:30 AMELT210: Development of Next-Generation Vertical Gallium- Nitride Devices for High-Power Density Electric Drivetrain, Andrew Binder, Sandia9:45 AMNitride Devices for High-Power Density Electric Drivetrain, Andrew Binder, Sandia10:00 AMELT218: Advanced Power Electronics Packages, Douglas 10:15 AM DeVoto, NREL10:30 AMELT212: Non-Heavy Rare-Earth High-Speed Motors, 10:45 AM Vandana P Rallabandi, ORNL11:00 PMELT221: Integrated Electric Drive System, Shajjad 11:15 PM Chowdhury, ORNL11:30 PMTime Buffer11:40 PMLunch Break1:10 PMELT179: Low Cost, High-Performance, Heavy Rare-Earth- Free 3-In-1 Electric Drive Unit, David Crecelius, American Axle & Manufacturing1:40 PMELT288: Scalable Ultra Power-Dense Extended Range	Wednesday, June 5, 20249:00 AMELT282: Technology & Design Innovations to Maximize the Reduction Effect on DCFC Unit Cost Economics (Max- REDUCE), Luca Di Carlo, BorgWarner9:15 AMREDUCE), Luca Di Carlo, BorgWarner9:30 AMELT283: A Solid State Technology Enabled Compact, Modular Design to Reduce DC Fast Charging Cost and Footprint, Bogdan Borowy, Eaton10:00 AMELT238: Intelligent, Grid-Friendly, Modular Extreme Fast Charging System with Solid-State Direct-Current Protection, Srdjan Lukic, North Carolina State University10:30 AMELT293: Ruggedized Mobile Fast Charger for Off-Road 10:45 AM Vehicles, Brij Singh, John Deere11:00 PMELT294: Modular Direct Current (DC) Back Bone Recharging System for Non-Road Vehicles in Austere Environments, Leandro Della Flora, Beta Technologies11:30 PMTime Buffer11:40 PMLunch Break1:10 PMELT295: EVs@Scale VGI & SCM, Jesse Bennett, NREL	Inursday, June 6, 2024 9:00 AM ELT298: Bidirectional Power Flow for Medium-duty Vehicle- 9:15 AM 9:15 AM Connectivity, Steven Sokolsky, CALSTART 9:30 AM ELT239: High-Power Inductive Charging System Development and Integration for Mobility, Omer Onar, ORNL 10:00 AM ELT262: Long-Range, Heavy-Duty Battery-Electric Vehicle 10:15 AM with Megawatt Wireless Charging, Ryan Reed, Kenworth 10:30 AM ELT286: A Zero Emission Freight Future (SuperTruck 3), 10:45 AM Eric Bond, Volvo 11:00 PM ELT285: Development and Demonstration of Zero-Emission 11:15 PM Time Buffer 11:30 PM Time Buffer 11:40 PM Lunch Break 1:10 PM ELT299: EVs@Scale High Power Charging Pillar, John 1:25 PM Kisacikoglu, NREL 1:40 PM ELT300: EVs@Scale Codes and Standards Pillar, Ted
 1:55 PM (SUPER) Inverter, Harsha Nanjundaswamy, BorgWarner 2:10 PM ELT287: Cummins High Power Density Inverter, Santhosh 2:25 PM Krishnamoorthi, Cummins 2:40 PM ELT 275: Low-Cost Rare-Earth Free Electric Drivetrain Enabled by Novel Permanent Magnets, Inverter, Integrated 2:55 PM Design and Advanced Thermal Management, Ayman El- Refaie, Marquette University 	 1:40 PM ELT265: A Secure and Resilient Interoperable SCM Control System Architecture for Electric Vehicle's-At-Scale, Duncan Woodbury, Liberas 2:10 PM ELT264: Demonstration of Utility Managed Smart Charging For Multiple Benefit Streams, Stephanie Leach, Exelon/Pepco Holdings Inc. 	1:55 PMBohn, ANL2:10 PMELT301: EVs@Scale Cyber-Physical Security Pillar,2:25 PMRichard Carlson, INL2:40 PMELT302: EVs@Scale EV Modeling Toolkit, Andrew2:55 PMSatchwell, LBNL3:10 PMTime Buffer3:15 PMBreak
3:10 PM Time Buffer 3:15 PM Break 3:45 PM ELT217: Integrated/Traction Drive Thermal Management,	2:40 PM ELT274: eMosaic: Electrification Mosaic Platform for Grid- 2:55 PM Informed Smart Charging Management, James Stoupis, ABB 3:10 PM Time Buffer 3:15 PM Break	3:45 PM ELT290: Behind-the-Meter-Storage, Anthony Burrell, NREL 4:15 PM Day 3 Ends
 4:00 PM Bidzina Kekelia, NREL 4:15 PM ELT 215: Develop fine-grain RE permanent magnet with high coercivity at high temperature AND cost-effective 4:30 PM manufacturing process for high performance soft magnetic materials in thin sheet form, Iver Anderson, Ames 4:45 PM ELT216: Isotropic, Bottom-Up Soft Magnetic Composites 5:00 PM for Rotating Machines, Todd Monson, Sandia 5:15 PM Day 1 Ends 	3:13 PMBreak3:45 PMELT296: Charging Infrastructure Interconnection4:00 PMSimplification Resource CIISR, Watson Collins, EPRI4:15 PMELT297: Electric Vehicle Smart Program Management:4:30 PMSupporting Local Governments to Achieve Equitable Access to Electric Mobility, Ed Gilliland, IREC4:45 PMELT236: Direct-Current Conversion Equipment Connected to the Medium-Voltage Grid for Extreme Fast Charging Utilizing Modular and Interoperable Architecture, Watson Collins, EPRI5:15 PMDay 2 Ends	