2023 Vehicle Technologies Office Annual Merit Review
Energy Efficient Mobility Systems (EEMS) Detailed Schedule

Tuesday, June 13, 2023	
10:00 AM	**EEMS093**: Transportation System Impact: POLARIS Workflow Development, Implementation and Deployment, Joshua Auld, ANL
10:15 AM	
10:30 AM	
10:45 AM	**EEMS092**: BEAM CORE, Anna Spurlock, LBNL
11:00 AM	
11:15 AM	
11:30 AM	**EEMS096**: Characterizing Behaviors and Capabilities for Emerging Connected and Automated Vehicle Technologies and Sensors, Thomas Wallner, ANL
11:45 AM	
12:00 PM	**EEMS095**: Integrated Control of Vehicle Speeds and Traffic Signals for Reducing Congestion and Energy Use, Jinghui Yuan, ORNL
12:15 PM	
12:30 PM	**Time Buffer**
12:40 PM	**Lunch Break**
1:40 PM	**EEMS089**: Energy Efficient CAVs: Workflow Development and Deployment, Dominik Karbowski, ANL
1:55 PM	
2:10 PM	**EEMS094**: Development and Validation of Intelligent CAV Controls for Energy-Efficiency, Dominik Karbowski, ANL
2:25 PM	
2:40 PM	**EEMS098**: Optimizing Drone Deployment for More Effective Movement of Goods, Victor Walker, INL
2:55 PM	**EEMS097**: Micromobility-Integrated Transit and Infrastructure for Efficiency (MITIE), Andrew Duvall, NREL
3:10 PM	**Time Buffer**
3:15 PM	**Break**
3:45 PM	**EEMS100**: Dynamic Curb Allocation, Nawaf Mohammed, PNNL
4:00 PM	
4:15 PM	**EEMS113**: Testing and Evaluation of Curb Management and Integrated Strategies to Catalyze Market Adoption of Electric Vehicles, Lauren Harper, LACI
4:30 PM	
4:45 PM	**EEMS110**: Human Factors and Technologies Design to Improve User Acceptance of Pooled Rideshare (PR) for Increasing Transportation System Energy Efficiency, Yunyi Jia & Johnell Brooks, Clemson
5:00 PM	
5:15 PM	**Day 1 Ends**

Wednesday, June 14, 2023	
10:00 AM	**EEMS101**: RealSim, An Anything-in-the-loop Platform for Mobility Technologies, Yunli Shao, ORNL
10:15 AM	
10:30 AM	**EEMS114**: Real Twin, Yunli Shao, ORNL
10:45 AM	
11:00 AM	**EEMS066**: Livewire Data Platform-A Solution for Energy Efficient Mobility Systems (EEMS) Data Sharing, Lauren Spath-Luhring, NREL
11:15 AM	**EEMS115**: Modeling Connected and Automated (CAV) Compute Power, Ben Feinberg, SNL
11:30 AM	**EEMS099**: Metrics for Assessing the Impacts of Energy-Efficient Mobility Systems, Venu Garikapati, NREL
11:45 AM	
12:00 PM	**EEMS112**: NREL Core Modeling & Decision Support Capabilities (RouteE, FASTSim, OpenPATH, T3CO), Jeff Gonder, NREL
12:15 PM	
12:30 PM	**Time Buffer**
12:40 PM	**Lunch Break**
1:40 PM	**EEMS013**: ANL Core Tools-Simulation, Phil Sharer, ANL
1:55 PM	
2:10 PM	**EEMS041**: ANL Everything-in-the-loop (XIL) Capabilities, Kevin Stutenberg, ANL
2:25 PM	
2:40 PM	**EEMS116**: High-Quality Perception Data, Zach Asher, Western Michigan
2:55 PM	**EEMS117**: Visual-Enhanced Cooperative Traffic Operations (VECTOR) System, "Cami" Qianwen Li, University of South Florida
3:10 PM	**Time Buffer**
3:15 PM	**Break**
3:45 PM	**EEMS090**: Applying Artificial Intelligence (AI) Based Signal Coordination and Controls for Optimized Mobility for the Nimitz Highway, Hong Wang, ORNL
4:00 PM	
4:15 PM	**EEMS109**: Connected and Learning Based Optimal Freight Management for Efficiency, Ali Borhan, Cummins
4:30 PM	
4:45 PM	**EEMS108**: Co-Otimization of Vehicles and Routes, Nick Hertlein, PACCAR
5:00 PM	
5:15 PM	**Day 2 Ends**

Thursday, June 15, 2023	
10:00 AM	**EEMS106**: Developing an Energy-Conscious Traffic Signal Control System for Optimized Fuel Consumption in Connected Vehicle Environments, Mina Sartipi, University of Tennessee, Chattanooga
10:15 AM	
10:30 AM	**EEMS105**: Energy Optimization of Light and Heavy Duty Vehicle Cohorts of Mixed Connectivity, Automation and Propulsion System Capabilities via Meshed V2V-V2I and Expanded Data Sharing, Darrell Robinette, Michigan Technological University
10:45 AM	
11:00 AM	**EEMS107**: Improving network-wide fuel economy and enabling traffic signal optimization using infrastructure and vehicle-based sensing and connectivity, Joshua Bittle, University of Alabama
11:15 AM	
11:30 AM	**EEMS121:** Decentralized and Cooperative Traffic Signal Network for Freight Energy Efficiency, Safety, Sustainability, and Public Health, Michael Lim, Xtelligent
11:45 AM	
12:00 PM	**EEMS118**: AI-Based Mobility Monitoring System and Analytics Demonstration Pilot, Scott Samuelson, UC-Irvine
12:15 PM	
12:30 PM	**Time Buffer**
12:40 PM	**Lunch Break**
1:40 PM	**EEMS119**: Improved Mobility and Energy Savings Through Optimization of Cooperative Driving Automation (CDA) Application for Signal Controls for Arterial Mixed Traffic Scenarios, Xiao-Yun Lu, LBNL
1:55 PM	
2:10 PM	**EEMS120**: A Cooperative Driving Automation (CDA) Framework for Communications, Adian Cook, ORNL
2:25 PM	
2:40 PM	**EEMS111**: Contextual Predictions and Eco Services for Electrified Vehicles, Jacopo Guanetti, AV-Connect, Inc.
2:55 PM	
3:10 PM	**Time Buffer**
3:15 PM	**Break**
3:45 PM	**EEMS103**: Transit-Centric Smart Mobility System for High-Growth Urban Activity Centers: Improving Energy Efficiency through Machine Learning, Jinhua Zhao, MIT
4:00 PM	
4:15 PM	**EEMS102**: AI-Engine for Optimizing Integrated Service in Mixed Fleet Transit Operations, Philip Pugliese, Go Carta
4:30 PM	
4:45 PM	**EEMS104**: Increasing Affordability, Energy Efficiency, and Ridership of Transit Bus Systems through Large-Scale Electrification, Ziqi Song, USU
5:00 PM	
5:15 PM	**AMR Ends**