

2024 Vehicle Technologies Office Annual Merit Review

Energy Efficient Mobility Systems (EEMS) Oral Presentation Detailed Schedule

Tuesday, June 4, 2024	
9:00 AM	EEMS922: Energy Efficient Mobility Systems Program Overview, Alexis Zubrow, DOE
9:15 AM	
9:30 AM	
9:45 AM	
10:00 AM	EEMS092: BEAM CORE, Anna Spurlock, LBNL
10:15 AM	
10:30 AM	
10:45 AM	EEMS093: Transportation System Impact: POLARIS Workflow Development, Implementation and Deployment, Joshua Auld, ANL
11:00 PM	
11:15 PM	
11:30 PM	
11:40 PM	Time Buffer
	Lunch Break
1:10 PM	EEMS122: Pathways to Net Zero Mobility, Joshua Auld, ANL
1:25 PM	EEMS099: Metrics for Assessing the Impacts of Energy-Efficient Mobility Systems, Venu Garikapati, NREL
1:40 PM	EEMS097: Micromobility-Integrated Transit and Infrastructure for Efficiency (MITIE), Andrew Duvall, NREL
1:55 PM	EEMS115: Modeling Connected and Automated (CAV) Compute Power, Ben Feinberg, Sandia
2:10 PM	
2:25 PM	EEMS098: Optimizing Drone Deployment for More Effective Movement of Goods, Victor Walker, INL
2:40 PM	
2:55 PM	EEMS037: Big Data Solutions for Mobility 2.0, Jane Macfarlane, LBNL
3:10 PM	Time Buffer
3:15 PM	Break
3:45 PM	EEMS100: Dynamic Curb Allocation, Nawaf Mohammed, PNNL
4:00 PM	EEMS113: Testing and Evaluation of Curb Management and Integrated Strategies to Catalyze Market Adoption of Electric Vehicles, Lauren Harper, LACI
4:15 PM	
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 and Johnell Brooks, Clemson University
5:00 PM	EEMS066: Livewire Data Platform-A Solution for Energy Efficient Mobility Systems (EEMS) Data Sharing, Lauren Spath-Luhring, NREL
5:15 PM	Day 1 Ends

Wednesday, June 5, 2024	
9:00 AM	EEMS094: Development and Validation of Intelligent CAV Controls for Energy-Efficiency and ENACTED, Dominik Karbowski, ANL
9:15 AM	
9:30 AM	
9:45 AM	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 and Hao Liu, LBNL
10:00 AM	
10:15 AM	EEMS120: A Cooperative Driving Automation (CDA) Framework for Communications, Adian Cook, ORNL
10:30 AM	
10:45 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, Jungyun Bae, Michigan Technological University
11:00 PM	
11:15 PM	EEMS123: Freight in the Loop, Kevin Stutenberg, ANL
11:30 PM	Time Buffer
11:40 PM	Lunch Break
1:10 PM	EEMS106: Developing an Energy-Conscious Traffic Signal Control System for Optimized Fuel Consumption in Connected Vehicle Environments, Osama Osman, Leidos
1:25 PM	
1:40 PM	EEMS107: Improving network-wide fuel economy and enabling traffic signal optimization using infrastructure and vehicle-based sensing and connectivity, Joshua Bittle, University of Alabama
1:55 PM	
2:10 PM	EEMS118: AI-Based Mobility Monitoring System and Analytics Demonstration Pilot, Blake Lane, UC Irvine
2:25 PM	
2:40 PM	EEMS090: Applying Artificial Intelligence (AI) Based Signal Coordination and Controls for Optimized Mobility for the Nimitz Highway, Hong Wang, ORNL
2:55 PM	
3:10 PM	Time Buffer
3:15 PM	Break
3:45 PM	EEMS108: Co-Optimization of Vehicles and Routes, Nick Hertlein, PACCAR
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	EEMS116: High-Quality Perception Data, Zach Asher, Western Michigan
5:00 PM	
5:15 PM	Day 2 Ends

Thursday, June 6, 2024	
9:00 AM	EEMS041: ANL Everything-in-the-loop (XIL) Capabilities, Kevin Stutenberg, ANL
9:15 AM	
9:30 AM	EEMS101: RealSim, An Anything-in-the-loop Platform for Mobility Technologies, Max Chen, ORNL
9:45 AM	
10:00 AM	EEMS114: Real Twin, Ross Wang, ORNL
10:15 AM	
10:30 AM	EEMS124: Deployment of Real-Sim/Real-Twin Scenario Library Generation and Benchmark of Energy Centric CAV Controls, Ross Wang, ORNL
10:45 AM	
11:00 PM	EEMS125: Energy Metrics in Traffic Signal Performance Measures, Joseph Fish, NREL
11:15 PM	
11:30 PM	EEMS095: Integrated Control of Vehicle Speeds and Traffic Signals for Reducing Congestion and Energy Use, Jinghui Yuan, ORNL
11:40 PM	
11:50 PM	Time Buffer
12:00 PM	Lunch Break
1:10 PM	EEMS121: Decentralized and Cooperative Traffic Signal Network for Freight Energy Efficiency, Safety, Sustainability, and Public Health, Michael Lim, Xtelligent
1:25 PM	
1:40 PM	EEMS013: ANL Core Tools-Simulation, Phil Sharer, ANL
1:55 PM	
2:10 PM	EEMS112: NREL Core Modeling & Decision Support Capabilities (RouteE, FASTSim, OpenPATH, T3CO), Jeff Gonder, NREL
2:25 PM	
2:40 PM	EEMS126: Arena Mobility Hubs for an Equitable, Low-Carbon Future, Jeff Baer, ADL Ventures
2:55 PM	
3:10 PM	EEMS129: Using Artificial Intelligence to Predict Ridership and Optimize Shared Mobility, Josh Rands, Terracity
3:15 PM	
3:25 PM	Time Buffer
3:30 PM	Break
3:45 PM	EEMS127: Deploying Autonomous, On-Demand Energy Efficient Mobility Solutions in Tulsa's Underserved Communities, Samitha Samaranayake, Cornell University
4:00 PM	
4:15 PM	EEMS117: Visual-Enhanced Cooperative Traffic Operations (VECTOR) System, Achilleas Kourtellis, USF
4:30 PM	
4:45 PM	EEMS128: National Impacts of Community-Level Strategies to Decarbonize and Improve Convenience of Mobility, Chris Hoehne, NREL
5:00 PM	
5:15 PM	Day 3 Ends