

2025 Vehicle Technologies Office Annual Merit Review

Energy Efficient Mobility Systems (EEMS) Oral Presentation Detailed Schedule

Tuesday, June 3, 2025		Wednesday, June 4, 2025		Thursday, June 5, 2025	
9:00 AM	EEMS922: Energy Efficient Mobility Systems Program Overview, Alexis Zubrow, Department of Energy	9:00 AM	EEMS146: Distributed Artificial-intelligence (AI)-based Signal Control (DASiC), Ross Wang, Oak Ridge National Laboratory	9:00 AM	EEMS115: Developing a Multiscale Simulation Framework to Evaluate Autonomous Vehicle On-Board
9:15 AM		9:15 AM	EEMS101: Core Tools: Real Sim, Max Chen, Oak Ridge National laboratory	9:15 AM	Compute Energy-Efficiency, Performance, and Reliability, Ben Feinberg, Sandia National Laboratories
9:30 AM	EEMS145: BEAM CORE Core Tools, Anna Spurlock, Lawrence Berkeley National Laboratory	9:30 AM	EEMS041: AVATAR Dominik Karbowski, Argonne National Laboratory	9:30 AM	EEMS143: Energy Efficient Sensing and Computing for AVs, Robert Patton, ORNL
9:45 AM	EEMS092: Multiregion Stakeholder Driven BEAM CORE Application, Anna Spurlock, Lawrence Berkeley National Laboratory	9:45 AM		9:45 AM	EEMS125: Energy Metrics in Traffic Signal Performance Measures, Joseph Fish, National Renewable Energy Laboratory
10:00 AM		10:00 AM	EEMS114: Real Twin, Ross Wang, Oak Ridge National Laboratory	10:00 AM	
10:15 AM	EEMS132: POLARIS - Transportation Systems and Mobility Tools Core Maintenance, Joshua Auld, Argonne National Laboratory	10:15 AM		10:15 AM	EEMS116: High-Quality Perception Data, Zach Asher, Western Michigan
10:30 AM	EEMS133: ITES4: Integrated Transportation and Energy cross-Sectoral System of Systems at Scale, Josh Auld, ANL	10:30 AM	EEMS124: Deployment of Real-Sim/Real-Twin Scenario Library Generation and Benchmark of Energy Centric CAV Controls, Ross Wang Oak Ridge National Laboratory	10:30 AM	
10:45 AM		10:45 AM		10:45 AM	EEMS117: Visual-Enhanced Cooperative Traffic Operations (VECTOR) System, Achilles Kourtellis, University of South Florida
11:00 PM	EEMS128: National Impacts of Community-Level Strategies to Improve Convenience of Mobility, Chris Hoehne, National Renewable Energy Laboratory	11:00 PM	EEMS120: A Cooperative Driving Automation (CDA) Framework for Communications, Adian Cook and Priyash Misra, Oak Ridge National Laboratory and Argonne National Laboratory	11:00 PM	
11:15 PM		11:15 PM		11:15 PM	
11:30 PM	Time Buffer	11:30 PM	Time Buffer	11:30 PM	Time Buffer
11:40 PM	Lunch Break	11:40 PM	Lunch Break	11:40 PM	Lunch Break
1:10 PM	EEMS122: Pathways to Affordable, Convenient, Efficient Regional Mobility, Joshua Auld, Argonne National Laboratory	1:10 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 and Hao Liu, Lawrence Berkeley National Laboratory		EEMS106: Developing an Energy-Conscious Traffic Signal Control System for Optimized Fuel Consumption in Connected Vehicle Environments, Mina Saritipi, University of Tennessee, Chattanooga
1:25 PM		1:25 PM		1:10 PM	
1:40 PM	EEMS112: NREL Core Modeling & Decision Support Capabilities (RouteE, FASTSim, OpenPATH, T3CO), Jeff Gonder, National Renewable Energy Laboratory	1:40 PM			EEMS113: Testing and Evaluation of Curb Management and Integrated Strategies to Catalyze Market Adoption of Electric Vehicles, Lauren Harper, LACI
1:55 PM		1:55 PM		1:25 PM	
2:10 PM	EEMS099: MEP Core Tools, Venu Garikapati, NREL	2:10 PM	EEMS127: Deploying Autonomous, On-Demand Energy Efficient Mobility Solutions in Tulsa's Underserved Communities, Samitha Samaranayake, Cornell University	1:40 PM	
2:25 PM	EEMS066: Livewire Data Platform-A Solution for Energy Efficient Mobility Systems (EEMS) Data Sharing, Lauren Spath-Luhning, National Renewable Energy Laboratory	2:25 PM	EEMS129: Using Artificial Intelligence to Predict Ridership and Optimize Shared Mobility, Josh Rands, Terracy	1:55 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 University
2:40 PM	EEMS013: ANL Core Modeling A3 - AMBER, Autonomie, Aeronomie, Phil Sharer, Argonne National Laboratory	2:55 PM	EEMS136: A Facility Scale Automated Mobility System, Jered Dean LUCI	2:10 PM	
2:55 PM		3:10 PM	Time Buffer	2:25 PM	
3:10 PM	Time Buffer	3:15 PM	Break	2:40 PM	
3:15 PM	Break	3:45 PM	EEMS137: Increasing Mobility Energy Productivity, Operational Efficiency, with Low-Speed Automation for On- Demand Transit or Goods Movement in First-Mile/Last-Mile, Sonalker, Anuja, STEER Tech	2:55 PM	
3:45 PM	EEMS144: RoadRunner Core Tools, Dominik Karbowski, Argonne National Laboratory	4:00 PM	EEMS138: Mauka Energy FEVER: Tool Developing Heavy Duty Electric Vehicle Energy Transportation Cost Mapping, David Hamilton, Oregon State University	3:10 PM	Time Buffer
4:00 PM	EEMS094: ENACTED, Dominik Karbowski, Argonne National Laboratory	4:15 PM	EEMS139: AI-Powered Autonomy-Aware Neighborhood Mobility Zones, Philip Pugliese, Chattanooga Transit	3:15 PM	Break
4:15 PM		4:30 PM	EEMS140: Multi-level Connected and Automated Transit System (M-CATS), Jinhua Zhao, MIT	3:45 PM	
4:30 PM	EEMS134: Development of Standardized Test Procedures for CV and AV Energy Consumption and Emissions, Michael Duoba, ANL	4:45 PM	EEMS141: Co-E3T: Energy-Efficient and Equitable Transit through user-centric hardware and software Co-development and community Co-design, University of Alabama Transit, Xinwu Qian, Rice University	4:00 PM	
4:45 PM			EEMS142: Improving Accessibility and Efficiency of Public Transportation via Optimal Integration with Shared Autonomous Electric Vehicles in Tribal Communities, Dong Zhang, University of Oklahoma	4:15 PM	
5:00 PM	EEMS 135: Energy-Transit Nexus Tools for Bus Fleet Electrification (NEXTBUS), Jake Holden, NREL	5:00 PM		4:30 PM	
5:15 PM	Day 1 Ends	5:15 PM	Day 2 Ends	4:45 PM	Day 3 Ends