

2021 VTO AMR Schedule

ACE SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021				
Tuesday, June 22, 2021	10:00 AM	ACE138: Partnership for Advanced Combustion Engines (PACE) - A Light-Duty National Laboratory Combustion Consortium, Matthew McNenly, LLNL	Yes	Matthew McNenly
Tuesday, June 22, 2021	10:15 AM			
Tuesday, June 22, 2021	10:30 AM	ACE139: Chemical Kinetic Models for Surrogate Fuels, Scott Wagnon, LLNL	Yes	Scott Wagnon
Tuesday, June 22, 2021	10:45 AM			
Tuesday, June 22, 2021	11:00 AM	ACE140: Accelerated Chemistry and Transport for Engine Simulations, Russell Whitesides, LLNL	Yes	Russell Whitesides
Tuesday, June 22, 2021	11:15 AM			
Tuesday, June 22, 2021	11:30 AM	ACE142: Development and Validation of Predictive Ignition Models, Riccardo Scarcelli, ANL	Yes	Riccardo Scarcelli
Tuesday, June 22, 2021	11:45 AM			
Tuesday, June 22, 2021	12:00 PM	ACE141: Advanced Ignition Barriers Research, Isaac Ekoto, SNL	Yes	Isaac Ekoto
Tuesday, June 22, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Tuesday, June 22, 2021	1:40 PM	ACE143: Fuel Injection and Spray Research, Chris Powell, ANL	Yes	Chris Powell
Tuesday, June 22, 2021	1:55 PM			
Tuesday, June 22, 2021	2:10 PM	ACE144: Spray Wall Interactions, Lyle Pickett, SNL	Yes	Lyle Pickett
Tuesday, June 22, 2021	2:25 PM			
Tuesday, June 22, 2021	2:40 PM	ACE167: Spray/Flow Interaction in Engines, Roberto Torelli, ANL	Yes	Roberto Torelli
Tuesday, June 22, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Tuesday, June 22, 2021	3:45 PM	ACE168: Soot Modeling and Experiments, Julien Manin, SNL	Yes	Julien Manin
Tuesday, June 22, 2021	4:00 PM			
Tuesday, June 22, 2021	4:15 PM	ACE146: Direct Numerical Simulation (DNS) and High-Fidelity Large Eddy Simulation (LES) for Improved Prediction of In-Cylinder Flow and Combustion Processes, Muhsin Ameen, ANL	Yes	Muhsin Ameen
Tuesday, June 22, 2021	4:30 PM			
Tuesday, June 22, 2021	4:45 PM	ACE147: Mitigation of Abnormal Combustion, Derek Splitter, ORNL	Yes	Derek Splitter
Tuesday, June 22, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		

ACE SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021	5:50 PM	ACE145: Cold Start Modeling and Experiments for Emissions Reduction, K. Dean Edwards, ORNL	Yes	Dean Edwards
Tuesday, June 22, 2021	6:05 PM			
Tuesday, June 22, 2021	6:20 PM	ACE015: Stretch Efficiency for Combustion Engines: Exploiting New High-Dilution Combustion Regimes, Jim Szybist, ORNL	Yes	Jim Szybist
Tuesday, June 22, 2021	6:35 PM			
Tuesday, June 22, 2021	6:50 PM			
Wednesday, June 23, 2021				
Wednesday, June 23, 2021	10:00 AM	ACE022: Joint Development and Coordination of Emissions Control Data and Models (Cross-Cut Lean Exhaust Emissions Reduction Simulations (CLEERS) Analysis and Coordination), Josh Pihl, ORNL	Yes	Josh Pihl
Wednesday, June 23, 2021	10:15 AM			
Wednesday, June 23, 2021	10:30 AM	ACE023: Cross-Cut Lean Exhaust Emissions Reduction Simulations (CLEERS): Fundamentals and Coordination, Yong Wang, PNNL	Yes	Yong Wang
Wednesday, June 23, 2021	10:45 AM			
Wednesday, June 23, 2021	11:00 AM	ACE085: Low-Temperature Emission Control to Enable Fuel-Efficient Engine Commercialization, Todd Toops, ORNL	Yes	Todd Toops
Wednesday, June 23, 2021	11:15 AM			
Wednesday, June 23, 2021	11:30 AM	ACE033: Emission Control for Lean Gasoline Engines, Vitaly Prikhodko, ORNL	Yes	Vitaly Prikhodko
Wednesday, June 23, 2021	11:45 AM			
Wednesday, June 23, 2021	12:00 PM	ACE153: Chemistry of Cold-Start Emissions and Impact of Emissions Control, Melanie Moses-DeBusk, ORNL	Yes	Melanie Moses DeBusk
Wednesday, June 23, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Wednesday, June 23, 2021	1:40 PM	ACE118: Advanced Nitrogen Oxide Storage	Yes	Janos Szanyi
Wednesday, June 23, 2021	1:55 PM			
Wednesday, June 23, 2021	2:10 PM	ACE027: Fundamental Understanding of Copper-Zeolite Selective Catalytic Reduction (SCR) Catalyst Aging Mechanism (Cummins CRADA), Feng Gao, PNNL	Yes	Feng Gao
Wednesday, June 23, 2021	2:25 PM			
Wednesday, June 23, 2021	2:40 PM	ACE119: Advanced Multi-Functional Diesel Particulate Filters (Deer and Company), Ken Rappe, PNNL	Yes	Ken Rappe
Wednesday, June 23, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Wednesday, June 23, 2021	3:45 PM	ACE056: Programmed Fuel Injection (PGM) Reduction in Three-Way Catalysts (TWCs), Konstantin Khivantsev, PNNL	Yes	Konstantin Khivantsev
Wednesday, June 23, 2021	4:00 PM			

ACE SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021	4:15 PM	ACE032: Cummins-ORNL Emissions Cooperative Research and Development Agreement (CRADA): Nitrogen Oxide Control and Measurement Technology for Heavy-Duty Diesel Engines, Self-Diagnosing SmartCatalyst Systems, William Partridge, ORNL	Yes	William Partridge
Wednesday, June 23, 2021	4:30 PM			
Wednesday, June 23, 2021	4:45 PM	ACE128: Reduced Precious Metal Catalysts for Methane and Nitrogen Oxide Emission Control of Natural Gas Vehicles, Michael Harold, University of Houston	Yes	Michael Harold
Wednesday, June 23, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Wednesday, June 23, 2021	5:50 PM	ACE169: Greatly Reduced Vehicle Programmed Fuel Injection (PGM) Contant Using Engineered, Highly Dispersed Precious Metal Catalysts, Yong Wang, Washington State University	Yes	Yong Wang
Wednesday, June 23, 2021	6:05 PM	ACE158: Slashing Programmed Fuel Injection (PGM) in Catalytic Converters: An Atoms-to-Autos Approach, Wei Li, General Motors	Yes	Wei Li
Wednesday, June 23, 2021	6:20 PM	ACE159: Reduced Cost and Complexity for Off Highway Aftertreatment, Ken Rappe, PNNL	Yes	Ken Rappe
Wednesday, June 23, 2021	6:35 PM			
Wednesday, June 23, 2021	6:50 PM			
		Thursday, June 24, 2021		
Thursday, June 24, 2021	10:00 AM	ACE160: Optimization and Evaluation of Energy Savings for Connected and Autonomous Off-Road Vehicles, Zongxuan Sun, Univ. of Minnesota	Yes	Zongxuan Sun
Thursday, June 24, 2021	10:15 AM	ACE161: New Approach for Increasing Efficiency of Agricultural Tractors and Implements, Andrea Vacca, Purdue University	Yes	Andrea Vacca
Thursday, June 24, 2021	10:30 AM	ACE162: Improved Efficiency of Off-Road Material Handling Equipment through Electrification, Jeremy Worm, MTU	Yes	Jeremy Worm
Thursday, June 24, 2021	10:45 AM	ACE163: Ducted Fuel Injection and Cooled Spray Technologies for Particulate Control in Heavy-Duty Diesel Engines, Adam Klingbel, Wabtec	Yes	Adam Klingbel
Thursday, June 24, 2021	11:00 AM	ACE164: Improving Efficiency of Off-Road Vehicles by Novel Integration of Electric Machines and Advanced Combustion Engines, Sage Kokjohn, Univ. of Wisconsin	Yes	Sage Kokjohn
Thursday, June 24, 2021	11:15 AM			
Thursday, June 24, 2021	11:30 AM	ACE133: Next-Generation Heavy-Duty Powertrains, Scott Curran, ORNL	Yes	Scott Curran
Thursday, June 24, 2021	11:45 AM			
Thursday, June 24, 2021	12:00 PM	ACE165: Advancing Simulation Tools for Heavy Duty Engine Combustion Using X-ray Diagnostics, Gina Magnotti, ANL	Yes	Gina Magnotti
Thursday, June 13, 2019	12:15 PM			

ACE SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Thursday, June 24, 2021	1:40 PM	ACE155: Low-Mass and High-Efficiency Engine for Medium-Duty Truck Applications, Qigui Wang, GM	Yes	Qigui Wang
Thursday, June 24, 2021	1:55 PM			
Thursday, June 24, 2021	2:10 PM	ACE156: Next-Generation, High-Efficiency Boosted Engine Development, Michael Shelby, Ford	Yes	Michael Shelby
Thursday, June 24, 2021	2:25 PM			
Thursday, June 24, 2021	2:40 PM	ACE166: New Two-Cylinder Prototype Demonstration and Concept Design of a Next Generation Class 3-6 Opposed Piston Engine, Fabien Redon, Achates Power, Inc.	Yes	Fabien Redon
	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Thursday, June 24, 2021	3:45 PM	ACE100: Improving Transportation Efficiency through Integrated Vehicle, Engine, and Powertrain Research - SuperTruck 2, Darek Villeneuve, Daimler Trucks North America	Yes	Darek Villeneuve
Thursday, June 24, 2021	4:00 PM			
Thursday, June 24, 2021	4:15 PM	ACE101: Volvo SuperTruck 2: Pathway to Cost-Effective Commercialized Freight Efficiency, Pascal Amar, Volvo Trucks North America	Yes	Pascal Amar
Thursday, June 24, 2021	4:30 PM			
Thursday, June 24, 2021	4:45 PM	ACE102: Cummins-Peterbilt SuperTruck 2, Jon Dickson, Cummins-Peterbilt	Yes	Jon Dickson
Thursday, June 24, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Thursday, June 24, 2021	5:50 PM	ACE103: Development and Demonstration of a Fuel-Efficient Class 8 Tractor and Trailer SuperTruck, Russell Zukouski, Navistar	Yes	Russell Zukouski
Thursday, June 24, 2021	6:05 PM			
Thursday, June 24, 2021	6:20 PM	ACE124: SuperTruck 2 - PACCAR, Maarten Meijer, PACCAR	Yes	Maarten Meijer
Thursday, June 24, 2021	6:35 PM			
Thursday, June 24, 2021	6:50 PM	AMR ends		

2021 VTO AMR Schedule

BAT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021				
Tuesday, June 22, 2021	10:00 AM	BAT386: eXtreme Fast Charge Cell Evaluation of Lithium-Ion Batteries (XCEL)–Overview and Progress Update, Venkat Srinivasan, ANL	Yes	Venkat Srinivasan
Tuesday, June 22, 2021	10:15 AM			
Tuesday, June 22, 2021	10:30 AM	BAT457: eXtreme Fast Charge Cell Evaluation of Lithium-Ion Batteries (XCEL)–Methods for the Detection and Quantification of Lithium Plating, Johanna Nelson-Weker, SLAC	Yes	Johanna Nelson-Weker
Tuesday, June 22, 2021	10:45 AM			
Tuesday, June 22, 2021	11:00 AM	BAT461: eXtreme Fast Charge Cell Evaluation of Lithium-Ion Batteries (XCEL)–Quantifying Heterogeneities/Degradation During Fast Charge, Andrew Colclasure, NREL	Yes	Andrew Colclasure
Tuesday, June 22, 2021	11:15 AM			
Tuesday, June 22, 2021	11:30 AM	BAT456: eXtreme Fast Charge Cell Evaluation of Lithium-Ion Batteries (XCEL)–Anode Structures that Enhance Fast Charge, Andrew Jansen, ANL	Yes	Andrew Jansen
Tuesday, June 22, 2021	11:45 AM			
Tuesday, June 22, 2021	12:00 PM	BAT463: eXtreme Fast Charge Cell Evaluation of Lithium-Ion Batteries (XCEL)–Effects of Extreme Fast Charging on Lithium-Ion Battery Cathode, Tanvir Tanim, INL	Yes	Tanvir Tanim
Tuesday, June 22, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Tuesday, June 22, 2021	1:40 PM	BAT462: eXtreme Fast Charge Cell Evaluation of Lithium-Ion Batteries (XCEL)–Aging and the Role of Fast-Charge Protocol, Eric Dufek, INL	Yes	Eric Dufek
Tuesday, June 22, 2021	1:55 PM	BAT459: eXtreme Fast Charge Cell Evaluation of Lithium-Ion Batteries (XCEL)–Heat-Generation Concerns Associated with Extreme Fast Charging, Matthew Keyser, NREL	Yes	Matthew Keyser
Tuesday, June 22, 2021	2:10 PM	BAT377: ReCell–Overview and Update, Jeffrey Spangenberg, ANL	Yes	Jeffrey Spangenberg
Tuesday, June 22, 2021	2:25 PM			
Tuesday, June 22, 2021	2:40 PM	BAT465: ReCell–Direct Cathode Recycling: Relithiation and Upcycling, Jack Vaughey, ANL	Yes	Jack Vaughey
Tuesday, June 22, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Tuesday, June 22, 2021	3:45 PM	BAT464: ReCell–Direct Cathode Recycling: Material Separation and Preparation, Albert Lipson, ANL	Yes	Albert Lipson
Tuesday, June 22, 2021	4:00 PM			
Tuesday, June 22, 2021	4:15 PM	BAT467: ReCell–Battery Design for Recycling, Jianlin Li, ORNL	Yes	Jianlin Li
Tuesday, June 22, 2021	4:30 PM	BAT382: ReCell–Modeling and Analysis for Recycling, Qiang Dai, ANL	Yes	Qiang Dai
Tuesday, June 22, 2021	4:45 PM	BAT442: Behind-the-Meter-Storage (BTMS)–Overview and Update, Anthony Burrell, NREL	Yes	Anthony Burrell
Tuesday, June 22, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Tuesday, June 22, 2021	5:50 PM	BAT472: Behind-the-Meter-Storage (BTMS)–Materials, Kyusung Park, NREL	Yes	Kyusung Park
Tuesday, June 22, 2021	6:05 PM			
Tuesday, June 22, 2021	6:20 PM	BAT473: Behind-the-Meter-Storage (BTMS)–Analysis, Margaret Mann, NREL	Yes	Margaret Mann
Tuesday, June 22, 2021	6:35 PM			
Tuesday, June 22, 2021	6:50 PM			
Wednesday, June 23, 2021				

BAT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021	10:00 AM	BAT474: R&D Projects in Battery Materials and Component Processing Science & Engineering, Peter Faguy, DOE	No	Peter Faguy
Wednesday, June 23, 2021	10:15 AM			
Wednesday, June 23, 2021	10:30 AM	BAT030: Electrode Prototyping Activities in ANL's Cell Analysis, Modeling and Prototyping (CAMP) Facility, Andrew Jansen, ANL	Yes	Andrew Jansen
Wednesday, June 23, 2021	10:45 AM			
Wednesday, June 23, 2021	11:00 AM	BAT232: High Energy Density Electrodes via Modifications to the Inactive Components and Processing Conditions; Vincent Battaglia, LBNL	Yes	Vincent Battaglia
Wednesday, June 23, 2021	11:15 AM			
Wednesday, June 23, 2021	11:30 AM	BAT164: Thick, Low-Cost, High-Power Lithium-Ion Electrodes via Aqueous Processing, Jianlin Li, ORNL	Yes	Jianlin Li
Wednesday, June 23, 2021	11:45 AM			
Wednesday, June 23, 2021	12:00 PM	BAT475: Towards Solventless Processing of Thick Electron-Beam (EB) Cured Lithium-Ion Battery Cathodes, David Wood, ORNL	Yes	David Wood
Wednesday, June 23, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH		LUNCH		
Wednesday, June 23, 2021	1:40 PM	BAT476: Establishing Materials and Component Testing Protocols, Adam Tornheim, ANL	No	Adam Tornheim
Wednesday, June 23, 2021	1:55 PM			
Wednesday, June 23, 2021	2:10 PM	BAT168: Process Development and Scale-Up of Critical Battery Materials - Continuous Flow-Produced Materials, Krzysztof Pupek, ANL	Yes	Krzysztof Pupek
Wednesday, June 23, 2021	2:25 PM			
Wednesday, June 23, 2021	2:40 PM	BAT315: Process R&D for Droplet-Produced Powdered Materials, Joe Libera, ANL	Yes	Joseph Libera
Wednesday, June 23, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK		BREAK		
Wednesday, June 23, 2021	3:45 PM	BAT167: Process Development and Scale-Up of Advanced Active Battery Materials, Ozge Kahvecioglu, ANL	Yes	Ozge Kahvecioglu
Wednesday, June 23, 2021	4:00 PM			
Wednesday, June 23, 2021	4:15 PM	BAT470: Process R&D Using Supercritical Fluid Reactors, Youngho Shin, ANL	Yes	Youngho Shin
Wednesday, June 23, 2021	4:30 PM			
Wednesday, June 23, 2021	4:45 PM	BAT343: Silicon and Intermetallic Anode Portfolio Strategy Overview, Brian Cunningham, DOE	No	Brian Cunningham
Wednesday, June 23, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK		BREAK		
Wednesday, June 23, 2021	5:50 PM	BAT477: Overview of the Liquid Electrolytes Program, Mallory Clites, DOE	No	Mallory Clites
Wednesday, June 23, 2021	6:05 PM			
Wednesday, June 23, 2021	6:20 PM	BAT108: Overview of the Battery Materials Research Program, Tien Duong, DOE	No	Tien Duong
Wednesday, June 23, 2021	6:35 PM			

BAT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021	6:50 PM	BAT478: Development of Thin, Robust, Lithium-Impenetrable, High-Conductivity, Electrochemically Stable, Scalable, and Low-Cost Glassy Solid Electrolytes for Solid State Lithium Batteries, Steve Martin, Iowa State University of Science and Technology	Yes	Steve Martin
Thursday, June 24, 2021				
Thursday, June 24, 2021	10:00 AM	BAT479: Composite Solid Ion Conductor with Engineered Lithium Interface, Kyler Carroll, Wildcat Discovery Technologies	Yes	Kyler Carroll
Thursday, June 24, 2021	10:15 AM			
Thursday, June 24, 2021	10:30 AM	BAT480: Physical and Mechano-Electrochemical Phenomena of Thin Film Li-Ceramic Electrolyte Constructs, Jeff Sakamoto, University of Michigan	Yes	Jeff Sakamoto
Thursday, June 24, 2021	10:45 AM			
Thursday, June 24, 2021	11:00 AM	BAT481: Li Dendrite-Free Li7N2I-LiOH Solid Electrolytes for High Energy Lithium Batteries, Chunsheng Wang, University of Maryland, College Park	Yes	Chunsheng Wang
Thursday, June 24, 2021	11:15 AM			
Thursday, June 24, 2021	11:30 AM	BAT482: Hot Pressing of Reinforced Lithium Nickel Manganese Cobalt Oxide (Li-NMC) All-Solid-State Batteries with Sulfide Glass Electrolyte, Thomas Yersak, General Motors LLC	Yes	Thomas Yersak
Thursday, June 24, 2021	11:45 AM			
Thursday, June 24, 2021	12:00 PM	BAT483: Low Impedance Cathode/Electrolyte Interfaces for High Energy Density Solid-State Batteries, Eric Wachsman, University of Maryland, College Park	Yes	Eric Wachsman
Thursday, June 24, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Thursday, June 24, 2021	1:40 PM	BAT484: Developing an In-Situ Formed Dynamic Protection Layer to Mitigate Lithium Interface Shifting: Preventing Dendrite Formation on Metallic Lithium Surface to Facilitate Long Cycle Life of Lithium Solid State Batteries, Deyang Qu, The University of Wisconsin-Milwaukee	Yes	Deyang Qu
Thursday, June 24, 2021	1:55 PM			
Thursday, June 24, 2021	2:10 PM	BAT485: Molecular Ionic Composites: A New Class of Polymer Electrolytes to Enable All Solid-State and High Voltage Lithium Batteries, Louis Madsen, Virginia Polytechnic Institute and State University	Yes	Louis Madsen
Thursday, June 24, 2021	2:25 PM			
Thursday, June 24, 2021	2:40 PM	BAT486: All Solid State Batteries Enabled by Multifunctional Electrolyte Materials, Pu Zhang, Solid Power, Inc	Yes	Pu Zhang
Thursday, June 24, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Thursday, June 24, 2021	3:45 PM	BAT487: Developing Materials for High-Energy-Density Solid State Lithium-Sulfur Batteries, Donghai Wang, Penn State University Park	Yes	Donghai Wang
Thursday, June 24, 2021	4:00 PM			
Thursday, June 24, 2021	4:15 PM	BAT488: Fundamental Understanding of Interfacial Phenomena in Solid State Batteries, Xingcheng Xiao, General Motors, LLC	Yes	Xingcheng Xiao
Thursday, June 24, 2021	4:30 PM			
Thursday, June 24, 2021	4:45 PM	BAT489: Multidimensional Diagnostics of the Interface Evolutions in Solid-State Lithium Batteries, Yan Yao, University of Houston	Yes	Yan Yao
Thursday, June 24, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Thursday, June 24, 2021	5:50 PM	BAT490: First-Principals Modeling of Cluster-Based Solid	Yes	Puru Jena

BAT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Thursday, June 24, 2021	6:05 PM	Electrolytes, Puru Jena, Virginia Commonwealth University		
Thursday, June 24, 2021	6:20 PM	BAT491: Predictive Engineering of Interfaces and Cathodes for High-Performance All Solid-State Lithium-Sulfur Batteries, Badri Narayanan, University of Louisville	Yes	Badri Narayanan
Thursday, June 24, 2021	6:35 PM			
Thursday, June 24, 2021	6:50 PM	AMR ends		

2021 VTO AMR Schedule

EEMS SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021				
Tuesday, June 22, 2021	10:00 AM	EEMS013: ANL Core Tools-Simulation, Phil Sharer, ANL	Yes	Phil Sharer
Tuesday, June 22, 2021	10:15 AM			
Tuesday, June 22, 2021	10:30 AM	EEMS041: ANL Core Tools-Hardware, Kevin Stutenberg, ANL	Yes	Kevin Stutenberg
Tuesday, June 22, 2021	10:45 AM			
Tuesday, June 22, 2021	11:00 AM	EEMS067: Virtual and Physical Proving Ground for Development and Validation of Future Mobility Technologies, Dean Deter, ORNL	Yes	Dean Deter
Tuesday, June 22, 2021	11:15 AM			
Tuesday, June 22, 2021	11:30 AM	EEMS066: Livewire Data Platform-A Solution for Energy Efficient Mobility Systems (EEMS) Data Sharing, Lauren Spath-Luhning, NREL	Yes	Lauren Spath-Luhning
Tuesday, June 22, 2021	11:45 AM			
Tuesday, June 22, 2021	12:00 PM	EEMS089: Energy Efficient CAVs: Workflow Development and	Yes	Dominik Karbowski
Tuesday, June 22, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH				
	12:40 PM	LUNCH		
Tuesday, June 22, 2021	1:40 PM	EEMS061: Scaling up the Realtime Data, Simulation and Artificial Intelligence (AI) and Control for Optimizing Regional Mobility, Jiboananda Sanyal, ORNL	Yes	Jiboananda Sanyal
Tuesday, June 22, 2021	1:55 PM			
Tuesday, June 22, 2021	2:10 PM	EEMS037: Big Data Solutions for Mobility, Jane Macfarlane, LBNL	Yes	Jane Macfarlane
Tuesday, June 22, 2021	2:25 PM			
Tuesday, June 22, 2021	2:40 PM	EEMS087: Computation of Metropolitan-Scale, Quasi-Dynamic Traffic Assignment Models Using High Performance Computing, Jane Macfarlane, LBNL	Yes	Jane Macfarlane
Tuesday, June 22, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK				
	3:15 PM	BREAK		
Tuesday, June 22, 2021	3:45 PM	EEMS090: Applying Artificial Intelligence (AI) Based Signal Coordination and Controls for Optimized Mobility for the Nimitz Highway, Hong Wang, ORNL	No	Hong Wang
Tuesday, June 22, 2021	4:00 PM			
Tuesday, June 22, 2021	4:15 PM	EEMS062: Deep-Learning for Connected and Automated Vehicle (CAV) Development, Robert Patton, ORNL and Peter Grab, NRE:	Yes	Robert Patton
Tuesday, June 22, 2021	4:30 PM			
Tuesday, June 22, 2021	4:45 PM	EEMS069: Next Generation Intelligent Traffic Signals for the Multimodal, Shared, and Automated Future, Andrew Powch,	Yes	Andrew Powch
	5:15 PM	Time Buffer		
BREAK				
	5:20 PM	BREAK		
Tuesday, June 22, 2021	5:50 PM	EEMS083: CIRCLES: Congestion Impact Reduction via CAV-in-the-Loop Lagrangian Energy Smoothing, Alexandre Bayen, University of California at Berkeley	Yes	Alexandre Bayen
Tuesday, June 22, 2021	6:05 PM			
Tuesday, June 22, 2021	6:20 PM	EEMS084: Energy-Efficient Maneuvering of Connected and Automated Vehicles (CAVs) with Situational Awareness at Intersections, Sankar Rengarajan, Southwest Research Institute	Yes	Sankar Rengarajan
Tuesday, June 22, 2021	6:35 PM			
Tuesday, June 22, 2021	6:50 PM	EEMS091: TCF: Ubiquitous Traffic Volume Estimation, Venu Garikapati, NREL	Yes	Venu Garikapati
Tuesday, June 22, 2021	7:05 AM			
Wednesday, June 23, 2021				
Wednesday, June 23, 2021	10:00 AM	EEMS092: BEAM CORE, Anna Spurlock, LBNL	Yes	Anna Spurlock
Wednesday, June 23, 2021	10:15 AM			

EEMS SCHEDULE				
Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021	10:30 AM			
Wednesday, June 23, 2021	10:45 AM			
Wednesday, June 23, 2021	11:00 AM	EEMS093: Transportation System Impact : POLARIS	Yes	Joshua Auld
Wednesday, June 23, 2021	11:15 AM	Workflow Development, Implementation and Deployment,		
Wednesday, June 23, 2021	11:30 AM	Joshua Auld, ANL		
Wednesday, June 23, 2021	11:45 AM			
Wednesday, June 23, 2021	12:00 PM	EEMS088: Chicago Transit Authority : Transit Network	Yes	Omer Verbas
Wednesday, June 23, 2021	12:15 PM	Efficiency Using POLARIS, Omer Verbas, ANL		
	12:30 PM	Time Buffer		
LUNCH		LUNCH		
	12:40 PM			
Wednesday, June 23, 2021	1:40 PM	EEMS094: Development and Validation of Intelligent CAV	Yes	Dominik Karbowski
Wednesday, June 23, 2021	1:55 PM	Controls for Energy-Efficiency, Dominik Karbowski, ANL		
Wednesday, June 23, 2021	2:10 PM	EEMS095: Integrated Control of Vehicle Speeds and Traffic	Yes	Timothy Laclair
Wednesday, June 23, 2021	2:25 PM	Signals for Reducing Congestion and Energy Use, Timothy		
		Laclair, ORNL		
Wednesday, June 23, 2021	2:40 PM	EEMS096: Characterizing Behaviors and Capabilities for	Yes	Thomas Wallner
Wednesday, June 23, 2021	2:55 PM	Emerging Connected and Automated Vehicle Technologies,		
		Sensors, and Connectivity, Thomas Wallner, ANL		
	3:10 PM	Time Buffer		
BREAK		BREAK		
	3:15 PM			
Wednesday, June 23, 2021	3:45 PM	EEMS097: Micromobility-Integrated Transit and Infrastructure	Yes	Andrew Duvall
Wednesday, June 23, 2021	4:00 PM	for Efficiency (MITIE), Andrew Duvall, NREL		
Wednesday, June 23, 2021	4:15 PM	EEMS098: Optimizing Drone Deployment for More Effective	Yes	Victor Walker
		Movement of Goods, Victor Walker, INL		
Wednesday, June 23, 2021	4:30 PM			
Wednesday, June 23, 2021	4:45 PM	EEMS099: Metrics for Assessing the Impacts of Energy-	Yes	Venu Garikapati
Wednesday, June 23, 2021	5:00 PM	Efficient Mobility Systems, Venu Garikapati, NREL		
	5:15 PM	Time Buffer		
BREAK		BREAK		
	5:20 PM			
Wednesday, June 23, 2021	5:50 PM	EEMS100: Dynamic Curb Allocation, Chase Dowling, PNNL	Yes	Chase Dowling
Wednesday, June 23, 2021	6:05 PM			
Wednesday, June 23, 2021	6:20 PM	EEMS101: RealSim, Dean Deter, ORNL	Yes	Dean Deter
Wednesday, June 23, 2021	6:35 PM			
Wednesday, June 23, 2021	6:50 PM	EEMS082: Validation of Connected and Automated Mobility	Yes	Reuben Sarkar
Wednesday, June 23, 2021	7:05 PM	System Modeling and Simulation, Reuben Sarkar, American		
		Center for Mobility		
Thursday, June 24, 2021				
Thursday, June 4, 2020	10:00 AM			
Thursday, June 4, 2020	10:15 AM			
Thursday, June 4, 2020	10:30 AM			
Thursday, June 4, 2020	10:45 AM			
Thursday, June 4, 2020	11:00 AM	EEMS102: AI-Engine for Optimizing Integrated Service in	No	Philip Pugliese
		Mixed Fleet Transit Operations, Philip Pugliese, Go Carta		
Thursday, June 4, 2020	11:15 AM			
Thursday, June 4, 2020	11:30 AM	EEMS103: Transit-Centric Smart Mobility System for High-	No	Jinhua Zhao
		Growth Urban Activity Centers: Improving Energy Efficiency		
		through Machine Learning, Jinhua Zhao, MIT		
Thursday, June 4, 2020	11:45 AM			
Thursday, June 4, 2020	12:00 PM	EEMS104: Increasing Affordability, Energy Efficiency, and	No	Ziqi Song
		Ridership of Transit Bus Systems through Large-Scale		

EEMS SCHEDULE				
Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Thursday, June 4, 2020	12:15 PM	Electrification, Ziqi Song, USU		
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Thursday, June 24, 2021	1:40 PM	EEMS105: Energy Optimization of Light and Heavy Duty Vehicle Cohorts of Mixed Connectivity, Automation and Propulsion System Capabilities via Meshed Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) and Expanded Data Sharing, Darrell Robinette, MTU	No	Darrell Robinette
Thursday, June 24, 2021	1:55 PM			
Thursday, June 24, 2021	2:10 PM	EEMS106: Developing an Energy-Conscious Traffic Signal Control System for Optimized Fuel Consumption in Connected Vehicle Environments, Mina Sartipi, UTC	No	Mina Sartipi
Thursday, June 24, 2021	2:25 PM			
Thursday, June 24, 2021	2:40 PM	EEMS107: Improving Network-Wide Fuel Economy and Enabling Traffic Signal Optimization Using Infrastructure and Vehicle-Based Sensing and Connectivity, Joshua Bittle, Univ. of Alabama	No	Joshua Bittle
Thursday, June 24, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Thursday, June 24, 2021	3:45 PM	EEMS108: Co-Optimization of Vehicles and Routes, Maarten Meijer, PACCAR	No	Maarten Meijer
Thursday, June 24, 2021	4:00 PM			
Thursday, June 24, 2021	4:15 PM	EEMS109: Connected and Learning Based Optimal Freight Management for Efficiency, Ali Borhan, Cummins	No	Ali Borhan
Thursday, June 24, 2021	4:30 PM			
Thursday, June 24, 2021	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, Clemson	No	Yunyi Jia
Thursday, June 24, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Thursday, June 24, 2021	5:50 PM			
Thursday, June 24, 2021	6:05 PM			
Thursday, June 24, 2021	6:20 PM			
Thursday, June 24, 2021	6:35 PM			
Thursday, June 24, 2021	6:50 PM	AMR ends		

2021 VTO AMR Schedule

ELT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021				
Tuesday, June 22, 2021	10:00 AM	ELT208: Highly Integrated Power Module, Emre Gurpinar, ORNL	Yes	Emre Gurpinar
Tuesday, June 22, 2021	10:15 AM			
Tuesday, June 22, 2021	10:30 AM	ELT209: High-Voltage, High-Power Density Traction-Drive Inverter, Gui-Jia Su, ORNL	Yes	Gui-Jia Su
Tuesday, June 22, 2021	10:45 AM			
Tuesday, June 22, 2021	11:00 AM	ELT210: Development of Next-Generation Vertical Gallium-Nitride Devices for High-Power Density Electric Drivetrain, Greg Pickrell, SNL	Yes	Andrew Binder
Tuesday, June 22, 2021	11:15 AM			
Tuesday, June 22, 2021	11:30 AM	ELT211: Power Electronics Thermal Management, Gilbert Moreno, NREL	Yes	Gilbert Moreno
Tuesday, June 22, 2021	11:45 AM			
Tuesday, June 22, 2021	12:00 PM	ELT212: Non-Heavy Rare-Earth High-Speed Motors, Tsarafidy Raminosoa, ORNL	Yes	Tsarafidy Raminosoa
Tuesday, June 22, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Tuesday, June 22, 2021	1:40 PM	ELT221: Integrated Electric Drive System, Shajjad Chowdhury, ORNL	Yes	Shajjad Chowdhury
Tuesday, June 22, 2021	1:55 PM			
Tuesday, June 22, 2021	2:10 PM	ELT214: Electric Motor Thermal Management, Kevin Bennion, NREL	Yes	Kevin Bennion
Tuesday, June 22, 2021	2:25 PM			
Tuesday, June 22, 2021	2:40 PM	ELT215: Permanent Magnets Without Critical Rare Earths to Enable Electric Drive Motors with Exceptional Power Density, Iver Anderson, Ames Laboratory	Yes	Iver Anderson
Tuesday, June 22, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Tuesday, June 22, 2021	3:45 PM	ELT216: Isotropic, Bottom-Up Soft Magnetic Composites for Rotating Machines, Todd Monson, SNL	Yes	Todd Monson
Tuesday, June 22, 2021	4:00 PM			
Tuesday, June 22, 2021	4:15 PM	ELT093: High-Speed Hybrid Reluctance Motor with Anisotropic Materials, Edwin Chang, General Motors	No	Edwin Chang
Tuesday, June 22, 2021	4:30 PM			
Tuesday, June 22, 2021	4:45 PM	ELT092: Wound Field and Hybrid Synchronous Machines for Electric Vehicle Traction with Brushless Capacitive Rotor Field Excitation, Ian Brown, Illinois Institute of Technology	No	Ian Brown

ELT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021	5:00 PM	Excitation, Ian Brown, Illinois Institute of Technology		
	5:15 PM	Time Buffer		
BREAK		BREAK		
Tuesday, June 22, 2021	5:50 PM	ELT275: Low-Cost Rare-Earth-Free Electric Drivetrain Enabled by Novel Permanent Magnets, Inverter, Integrated Design and Advanced Thermal Management, Ayman El-Refaie, Marquette	No	Ayman El-Refaie
Tuesday, June 22, 2021	6:05 PM			
Tuesday, June 22, 2021	6:20 PM	ELT276: Low Cost, High-Performance, HRE-Free 3-In-1 Electric Drive Unit, David Crecelius, AAM	No	David Crecelius
Tuesday, June 22, 2021	6:35 PM			
Tuesday, June 22, 2021	6:50 PM	ELT094: Development and Demonstration of Medium-and Heavy-Duty Plug-In Hybrid Work Trucks, John Petras, Odyne Systems	Yes	John Petras
Wednesday, June 23, 2021				
Wednesday, June 23, 2021	10:00 AM	ELT095: Vehicle-to-Grid Electric School Bus Commercialization Project, Adam Hunnell, Blue Bird Corp.	Yes	Adam Hunnell
Wednesday, June 23, 2021	10:15 AM			
Wednesday, June 23, 2021	10:30 AM	ELT258: Grid-Enhanced, Mobility-Integrated Network Infrastructures for Extreme Fast Charging (GEMINI-XFC), Andrew Meintz, NREL	Yes	Andrew Meintz
Wednesday, June 23, 2021	10:45 AM			
Wednesday, June 23, 2021	11:00 AM	ELT201: Charging Infrastructure Technologies: Smart Vehicle-Grid Integration (ANL), Keith Hardy, ANL	Yes	Keith Hardy
Wednesday, June 23, 2021	11:15 AM			
Wednesday, June 23, 2021	11:30 AM	ELT202: Charging Infrastructure Technologies: Smart Electric Vehicle Charging for a Reliable and Resilient Grid (RECHARGE), Andrew Meintz, NREL	Yes	Jesse Bennett
Wednesday, June 23, 2021	11:45 AM			
Wednesday, June 23, 2021	12:00 PM	ELT257: Directed Electric Charging of Transportation Using eXtreme Fast Charging (XFC) (DIRECT XFC), Tim Pennington, INL	Yes	Tim Pennington
Wednesday, June 23, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH		LUNCH		
Wednesday, June 23, 2021	1:40 PM	ELT158: Zero-Emission Cargo Transport II: San Pedro Bay Ports Hybrid & Fuel-Cell Electric Vehicle Project, Seungbum Ha, SCAQMD	Yes	Seungbum Ha
Wednesday, June 23, 2021	1:55 PM			

ELT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021	2:10 PM	ELT262: Long-Range, Heavy-Duty Battery-Electric Vehicle with Megawatt Wireless Charging Brian Lindgren, Kenworth	Yes	Brian Lindgren
Wednesday, June 23, 2021	2:25 PM			
Wednesday, June 23, 2021	2:40 PM	ELT259: Development and Commercialization of Heavy-Duty Battery Electric Trucks Under Diverse Climate Conditions, Marcus Malinosky, Daimler Trucks North America	Yes	Marcus Malinosky
Wednesday, June 23, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Wednesday, June 23, 2021	3:45 PM	ELT260: Improving the Freight Productivity of a Heavy-Duty, Battery Electric Truck by Intelligent Energy Management, Teresa Taylor, Volvo	Yes	Sam McLaughlin
Wednesday, June 23, 2021	4:00 PM			
Wednesday, June 23, 2021	4:15 PM	ELT261: High-Efficiency Powertrain for Heavy-Duty Trucks using Silicon Carbide Inverter, Ben Marquart, Ricardo	Yes	Ben Marquart
Wednesday, June 23, 2021	4:30 PM			
Wednesday, June 23, 2021	4:45 PM	ELT274: eMosaic: Electrification Mosaic Platform for Grid-Informed Smart Charging Management, David Coats, ABB	Yes	David Coats
Wednesday, June 23, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Wednesday, June 23, 2021	5:50 PM	ELT264: Demonstration of Utility Managed Smart Charging For Multiple Benefit Streams, Joe Picarelli, Exelon/Pepco Holdings Inc.	Yes	Joe Picarelli
Wednesday, June 23, 2021	6:05 PM			
Wednesday, June 23, 2021	6:20 PM	ELT265: A Secure and Resilient Interoperable SCM Control System Architecture for Electric Vehicle's-At-Scale, Duncan Woodbury, Dream Team LLC	Yes	Duncan Woodbury
Wednesday, June 23, 2021	6:35 PM			
Wednesday, June 23, 2021	6:50 PM	ELT198: Cybersecurity: Securing Vehicle Charging Infrastructure, Jay Johnson, SNL	Yes	Jay Johnson
Wednesday, June 23, 2021	7:05 PM			
Thursday, June 24, 2021				
Thursday, June 24, 2021	10:00 AM	ELT199: Cybersecurity: Consequence-Driven Cybersecurity for High-Power Charging Infrastructure, Richard Carlson, INL	Yes	Richard Carlson
Thursday, June 24, 2021	10:15 AM			
Thursday, June 24, 2021	10:30 AM	ELT206: Cybersecurity Platform and Certification Framework Development for Extreme Fast Charging, Integrated Charging, Infrastructure Ecosystem , Sunil Chhaya, EPRI	Yes	Sunil Chhaya
Thursday, June 24, 2021	10:45 AM			
Thursday, June 24, 2021	11:00 AM	ELT207: Enabling Secure and Resilient Extreme Fast Charging: A Software/Hardware Security Co-Design Approach, Ryan Gerdes, Virginia Tech	Yes	Ryan Gerdes
Thursday, June 24, 2021	11:15 AM			
Thursday, June 24, 2021	11:30 AM	ELT205: Cybersecurity for Grid-Connected Extreme Fast Charging Station (CyberX), David Coats, ABB	Yes	David Coats
Thursday, June 24, 2021	11:45 AM			

ELT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Thursday, June 24, 2021	12:00 PM	ELT204: Charging Infrastructure Technologies: Development of a Multiport, >1 MegaWatt Charging System for Medium- and Heavy-Duty Electric Vehicles, Andrew Meintz, NREL	Yes	Andrew Meintz
Thursday, June 24, 2021	12:15 PM			
	12:30 PM			
LUNCH	12:40 PM	LUNCH		
Thursday, June 24, 2021	1:40 PM	ELT241: High-Efficiency, Medium-Voltage Input, Solid-State, Transformer-Based 400-kW/1000-V/400-A Extreme Fast Charger for Electric Vehicles, Charles Zhu, Delta Electronics	Yes	Charles Zhu
Thursday, June 24, 2021	1:55 PM			
Thursday, June 24, 2021	2:10 PM	ELT187: Comprehensive Assessment of On- and Off-Board, Vehicle-to-Grid Technology Performance and Impacts on Batteries and the Grid (SPIN System), Sunil Chhaya, EPRI	Yes	Sunil Chhaya
Thursday, June 24, 2021	2:25 PM			
Thursday, June 24, 2021	2:40 PM	ELT236: Direct-Current Conversion Equipment Connected to the Medium-Voltage Grid for Extreme Fast Charging Utilizing Modular and Interoperable Architecture, Watson Collins, EPRI	Yes	Watson Collins
Thursday, June 24, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Thursday, June 24, 2021	3:45 PM	ELT237: Enabling Extreme Fast Charging with Energy Storage, Jonathan Kimball, Missouri S&T	Yes	Jonathan Kimball
Thursday, June 24, 2021	4:00 PM			
Thursday, June 24, 2021	4:15 PM	ELT238: Intelligent, Grid-Friendly, Modular Extreme Fast Charging System with Solid-State Direct-Current Protection, Srdjan Lukic, North Carolina State University	Yes	Srdjan Lukic
Thursday, June 24, 2021	4:30 PM			
Thursday, June 24, 2021	4:45 PM	ELT239: High-Power Inductive Charging System Development and Integration for Mobility, Omer Onar, ORNL	Yes	Omer Onar
Thursday, June 24, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Thursday, June 24, 2021	5:50 PM	ELT240: Wireless Extreme Fast Charging for Electric Trucks (WXFC-Trucks), Mike Masquelier, WAVE	Yes	Mike Masquelier
Thursday, June 24, 2021	6:05 PM			
Thursday, June 24, 2021	6:20 PM	ELT197: High Power and Dynamic Wireless Charging of Electric Vehicles, Veda Galigekere, ORNL	Yes	Veda Galigekere
Thursday, June 24, 2021	6:35 PM			
Thursday, June 24, 2021	6:35 PM	ELT188: Bi-Directional Wireless Power Flow for Medium-Duty, Vehicle-to-Grid Connectivity, Omer Onar, ORNL	Yes	Omer Onar
Thursday, June 24, 2021	7:05 PM			
Thursday, June 24, 2021	5:15 PM			
Thursday, June 24, 2021	5:30 PM			

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FT SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Thursday, June 24, 2021				
Thursday, June 24, 2021	10:00 AM	FT037: Co-Optimization of Fuels and Engines (Co-Optima), Robert Wagner, ORNL	No	Robert Wagner
Thursday, June 24, 2021	10:15 AM			
Thursday, June 24, 2021	10:30 AM	FT094: Fuel Properties and Kinetics, Gina Fioroni, NREL	No	Gina Fioroni
Thursday, June 24, 2021	10:45 AM			
Thursday, June 24, 2021	11:00 AM	FT091: Fuel Effects in Boosted, Spark-Ignition Combustion, Jim Szybist, ORNL	No	Jim Szybist
Thursday, June 24, 2021	11:15 AM			
Thursday, June 24, 2021	11:30 AM	FT092: Fuel Effects on Multimode Engine Operation, Magnus Sjoberg, SNL	No	Magnus Sjoberg
Thursday, June 24, 2021	11:45 AM			
Thursday, June 24, 2021	12:00 PM	F093: Diesel-like Fuels, Combustion, and Emissions, Steve Busch, SNL	No	Steve Busch
Thursday, June 24, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH		LUNCH		
	12:40 PM			
Thursday, June 24, 2021	1:40 PM	FT096: Advanced Compression Ignition Combustion Engines: Gasoline-Range Fuels, Christopher P. Kolodziej, ANL	No	Christopher P. Kolodziej
Thursday, June 24, 2021	1:55 PM			
Thursday, June 24, 2021	2:10 PM	FT090: Bioblendable Generation and Analysis, Anthe George, SNL	No	Anthe George
Thursday, June 24, 2021	2:25 PM			
Thursday, June 24, 2021	2:40 PM	FT097: Summary and Future Directions, Bob McCormick, NREL	No	Bob McCormick
Thursday, June 24, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK		BREAK		
	3:15 PM			
Thursday, June 24, 2021	3:45 PM	FT098: Propane Engine with Controlled Endgas Autoignition, Daniel Olsen, Colorado State University	Yes	Daniel Olsen
Thursday, June 24, 2021	4:00 PM			
Thursday, June 24, 2021	4:15 PM	FT099: Propane Long-Stroke Engine, Derek Splitter, ORNL	Yes	Derek Splitter
Thursday, June 24, 2021	4:30 PM			
Thursday, June 24, 2021	4:45 PM			
Thursday, June 24, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK		BREAK		
	5:20 PM			
Thursday, June 24, 2021	5:50 PM			
Thursday, June 24, 2021	6:05 PM			
Thursday, June 24, 2021	6:20 PM			
Thursday, June 24, 2021	6:35 PM			
Thursday, June 24, 2021	6:50 PM	AMR ends		

2021 VTO AMR Schedule

TI SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021				
Wednesday, June 23, 2021	10:00 AM	TI000: Technology Integration (TI) Project Overview, Mark Smith, DOE	No	Mark Smith
	10:15 AM			
Wednesday, June 23, 2021	10:30 AM	TI106: Natural Gas Vehicle (NGV) UP TIME Analysis: Updated Performance Tracking Integrating Maintenance Expenses, Megan Stein, Clean Fuels Ohio	Yes	Megan Stein
	10:45 AM			
Wednesday, June 23, 2021	11:00 AM	TI107: Next Generation Natural Gas Vehicle Drive Information Systems, Devin Halliday, Gas Technology Institute	Yes	Devin Halliday
	11:15 AM			
Wednesday, June 23, 2021	11:30 AM	TI108- Smart Compressed Natural Gas (CNG) Station Deployment, Jason Stair, Gas Technology Institute	Yes	Jason Stair
	11:45 AM			
Wednesday, June 23, 2021	12:00 PM	TI109- Carolina Alternative Fuel Infrastructure for Storm Resilience Plan, David Doctor, E4 Carolinas, Inc.	Yes	David Doctor
	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Wednesday, June 23, 2021	1:40 PM	TI110: Statewide Alternative Fuel Resiliency Plan, Sean White, Florida Department of Agriculture and Consumer Services	Yes	Sean White
	1:55 PM			
Wednesday, June 23, 2021	2:10 PM	TI111- Integration of Smart Ride-Sharing into an Existing Electric Vehicle Carsharing Service in the San Joaquin Valley, Caroline Rider, University of California-Davis	Yes	Caroline Rodier
Wednesday, June 23, 2021	2:25 PM			
Wednesday, June 23, 2021	2:40 PM	TI112- The Clean Rural Shared Electric Mobility Project, Kelly Yearick, Forth	Yes	Kelly Yearick
	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Wednesday, June 23, 2021	3:45 PM	TI113- Holistic and Energy-Efficient Rural County Mobility Platform (RAMP), Sean Quian, Carnegie Mellon University	Yes	Sean Quian
Wednesday, June 23, 2021	4:00 PM			
Wednesday, June 23, 2021	4:15 PM	TI114- Rural Open Access Development Mobility Action Plan, Sarah Conley-Ballew, Rural Action, Inc.	Yes	Sarah Conley-Ballew
Wednesday, June 23, 2021	4:30 PM			
Wednesday, June 23, 2021	4:45 PM	TI115- Electric First/Last Mile On-Demand Shuttle Service for Rural Communities in Central Texas, Elizabeth Munger, Lone Star Energy	Yes	Elizabeth Munger
Wednesday, June 23, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Wednesday, June 23, 2021	5:50 PM	TI116- East Zion National Park Electric Vehicle Shuttle System, Tammie Bostick, Utah Clean Cities Coalition	Yes	Tammie Bostick
Wednesday, June 23, 2021	6:05 PM			
Wednesday, June 23, 2021	6:20 PM	TI117- Electrifying Terminal Trucks in Unincorporated Markets, Kelly Gilbert, Metropolitan Energy Center	Yes	Kelly Gilbert
Wednesday, June 23, 2021	6:35 PM			
Wednesday, June 23, 2021	6:50 PM			
Thursday, June 24, 2021				
Thursday, June 24, 2021	10:00 AM	TI118- Heavy Duty EV Demonstrations for Freight and Mobility	Yes	Megan Stein

TI SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Thursday, June 24, 2021	10:15 AM	Solutions, Megan Stein, Clean Fuels Ohio		
Thursday, June 24, 2021	10:30 AM	T1119- Electric Vehicle Widescale Analysis for Tomorrow's Transportation Solutions, Brian Roy, Akimeka, LLC	Yes	Bryan Roy
Thursday, June 24, 2021	10:45 AM			
Thursday, June 24, 2021	11:00 AM	T1120- Mid-Atlantic Electric School Bus Experience Project, Alleyn Harned, James Madison University	Yes	Alleyn Harned
Thursday, June 24, 2021	11:15 AM			
Thursday, June 24, 2021	11:30 AM	T1121- Medium and Heavy-Duty Electric Vehicle Deployment's Data Collection, Jasna Tomic, Calstart, Inc.	Yes	Jasna Tomic
Thursday, June 24, 2021	11:45 AM			
Thursday, June 24, 2021	12:00 PM	T1122- Supporting Electric Vehicle Infrastructure Deployment Along Rural Corridors in the Intermountain West, Tammie Bostic, Utah Clean Cities	Yes	Tammie Bostick
Thursday, June 24, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH		LUNCH		
Thursday, June 24, 2021	12:40 PM			
Thursday, June 24, 2021	1:40 PM	T1123- Decentralized Mobility Ecosystem: Market Solutions for 21st Century Electrified Mobility, Megan Stein, Clean Fuels Ohio	Yes	Megan Stein
Thursday, June 24, 2021	1:55 PM			
Thursday, June 24, 2021	2:10 PM	T1124: Developing an Electrified Vehicle Demonstration Testbed in the Upper Cumberland Region of Tennessee, an Economy Distressed Rural Region, Pinggen Chen, Tennessee Tech	Yes	Pinggen Chen
Thursday, June 24, 2021	2:25 PM			
Thursday, June 24, 2021	2:40 PM			
Thursday, June 24, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK		BREAK		
Thursday, June 24, 2021	3:15 PM			
Thursday, June 24, 2021	3:45 PM	T1125- EcoCar Mobility Challenge, Kristen Wahl, ANL	Yes	Kristen Wahl
Thursday, June 24, 2021	4:00 PM			
Thursday, June 24, 2021	4:15 PM			
Thursday, June 24, 2021	4:30 PM			
Thursday, June 24, 2021	4:45 PM			
Thursday, June 24, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK		BREAK		
Thursday, June 24, 2021	5:20 PM			
Thursday, June 24, 2021	5:50 PM			
Thursday, June 24, 2021	6:05 PM			
Thursday, June 24, 2021	6:20 PM			
Thursday, June 24, 2021	6:35 PM			
Thursday, June 24, 2021		AMR ends		

2021 VTO AMR Schedule

VAN SCHEDULE

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021				
Tuesday, June 22, 2021	10:00 AM	VAN000: Overview of VTO Analysis Program, Jacob Ward, DOE	No	Jacob Ward
Tuesday, June 22, 2021	10:15 AM	VAN038: The Department of Energy's (DOE) More Comprehensive Total Cost of Ownership (TCO) Framework, Dave Gohlke, ANL	Yes	David Gohlke
Tuesday, June 22, 2021	10:30 AM			
Tuesday, June 22, 2021	10:45 AM			
Tuesday, June 22, 2021	11:00 AM	VAN035: Assessing Vehicle Technologies Benefits in a Transportation Energy Ecosystem, Vincent Freyermuth, ANL	Yes	Vincent Freyermuth
Tuesday, June 22, 2021	11:15 AM			
Tuesday, June 22, 2021	11:30 AM	VAN021: Transportation Energy Evolution Modeling (TEEM) Program, Zhenhong Lin, ORNL	Yes	Zhenhong Lin
Tuesday, June 22, 2021	11:45 AM			
Tuesday, June 22, 2021	12:00 PM	VAN034: Medium- and Heavy-Duty Vehicle Choice Modeling and Applied Analysis, Alicia Birky, NREL	Yes	Alicia Birky
Tuesday, June 22, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Tuesday, June 22, 2021	1:40 PM	VAN028: Electric Vehicle (EV)-Grid Analysis Modeling, Srinath Ravulaparthi, LBNL	Yes	Srinath Ravulaparthi
Tuesday, June 22, 2021	1:55 PM			
Tuesday, June 22, 2021	2:10 PM	VAN039: Electric Vehicles at Scale, Michael Kintner-Meyer, PNNL	Yes	Michael Kintner-Meyer
Tuesday, June 22, 2021	2:25 PM			
Tuesday, June 22, 2021	2:40 PM	VAN040: Energy Impacts of Electrified Passenger Air Transport, Dominik Karbowski, ANL	Yes	Dominik Karbowski
Tuesday, June 22, 2021	2:55 PM	VAN041: Location History, Venu Garikapati, NREL	Yes	Venu Garikapati
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Tuesday, June 22, 2021	3:45 PM	VAN036: Distributions of Real-World Vehicle Travel, David Gohlke, ANL	Yes	David Gohlke
Tuesday, June 22, 2021	4:00 PM			
Tuesday, June 22, 2021	4:15 PM	ELT266: ANL High Power Charging Charge Profiles, Dan Dobrzynski, ANL	Yes	Dan Dobrzynski
Tuesday, June 22, 2021	4:30 PM			

2021 VTO AMR Schedule

MAT - Carbon Fiber and Composites

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021				
Tuesday, June 22, 2021	10:00 AM	MAT173: Self-Sensing Fiber-Reinforced Composites, Christopher Bowland, ORNL	Yes	Christopher Bowland
Tuesday, June 22, 2021	10:15 AM			
Tuesday, June 22, 2021	10:30 AM	MAT146: Ultra-Lightweight, Ductile Carbon-Fiber Reinforced Composites, Vlastimil Kunc, ORNL	Yes	Vlastimil Kunc
Tuesday, June 22, 2021	10:45 AM			
Tuesday, June 22, 2021	11:00 AM	MAT174: Carbon-Fiber Technology Facility (CFTF), Merlin Theodore, ORNL	Yes	Merlin Theodore
Tuesday, June 22, 2021	11:15 AM			
Tuesday, June 22, 2021	11:30 AM	MAT195: Industrialization of Carbon Fiber Composite Wheels for Automobiles and Trucks, Michael Hayes, ESE Carbon	Yes	Michael Hayes
Tuesday, June 22, 2021	11:45 AM			
Tuesday, June 22, 2021	12:00 PM	MAT196: High Temperature Carbon Fiber Carbonization via Electromagnetic Power, Felix Paulauskas, ORNL	Yes	Felix Paulauskas
Tuesday, June 22, 2021	12:15 PM			
	12:30 PM			
LUNCH	12:40 PM	LUNCH		
Tuesday, June 22, 2021	1:40 PM	MAT147: Continuous-Fiber, Malleable Thermoset Composites with Sub-1-Minute Dwell Times: Validation of Impact Performance and Evaluation of the Efficacy of the Compression Forming Process, Philip Taynton, Mallinda	No	Philip Taynton
Tuesday, June 22, 2021	1:55 PM			
Tuesday, June 22, 2021	2:10 PM	MAT124: Integrated Computational Materials Engineering (ICME) Predictive Tools for Low-Cost Carbon Fiber for Lightweight Vehicles, Xiaodong Li, University of Virginia	No	Xiaodong Li
Tuesday, June 22, 2021	2:25 PM			
Tuesday, June 22, 2021	2:40 PM	MAT125: Integrated Computational Materials Engineering (ICME) Predictive Tools for Low-Cost Carbon Fiber, Jeramie Adams, Western Research Institute	No	Jeramie Adams
Tuesday, June 22, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Tuesday, June 22, 2021	3:45 PM	MAT118: Functionally Designed Ultra-Lightweight Carbon-Fiber Reinforced Thermoplastic Composites Door Assembly, Srikanth Pilla, Clemson University	No	Srikanth Pilla
Tuesday, June 22, 2021	4:00 PM			
Tuesday, June 22, 2021	4:15 PM	MAT119: Ultra-Light Hybrid Composite Door Design, Manufacturing, and Demonstration, Nate Gravelle, TPI Composites	No	Nate Gravelle
Tuesday, June 22, 2021	4:30 PM			
Tuesday, June 22, 2021	4:45 PM	MAT122: Close-Proximity Electromagnetic Carbonization (CPEC), Felix Paulauskas, ORNL	No	Felix Paulauskas
Tuesday, June 22, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		

MAT - Carbon Fiber and Composites

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021	5:50 PM	MAT197: Multi-Functional Smart Structures for Smart Vehicles, Patrick Blanchard, Ford Motor Company	Yes	Patrick Blanchard
Tuesday, June 22, 2021	6:05 PM			
Tuesday, June 22, 2021	6:20 PM	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	Yes	Venkat Aitharaju
Tuesday, June 22, 2021	6:35 PM			
Tuesday, June 22, 2021	6:50 PM	MAT199: Ultra-Lightweight Thermoplastic Polymer/Polymer Fiber Composites for Vehicles (Inter-Lab Project), Kevin Simmons, PNNL	Yes	Kevin Simmons
Wednesday, June 23, 2021				
Wednesday, June 23, 2021	10:00 AM	MAT200: Additive Manufacturing for Property Optimization for Automotive Applications, Seokpum Kim, ORNL	Yes	Seokpum Kim
Wednesday, June 23, 2021	10:15 AM			
Wednesday, June 23, 2021	10:30 AM	MAT201: Additively Manufactured, Lightweight, Low-Cost Composite Vessels for Compressed Natural Gas Fuel Storage, James Lewicki, LLNL	Yes	James Lewicki
Wednesday, June 23, 2021	10:45 AM			
Wednesday, June 23, 2021	11:00 AM	MAT202: 3D Printed Hybrid Composite Materials with Sensing Capability for Advanced Vehicles, Rigoberto Advincula, ORNL	Yes	Rigoberto Advincula
Wednesday, June 23, 2021	11:15 AM			
Wednesday, June 23, 2021	11:30 AM	MAT203: Low-Cost, High-Throughput Carbon Fiber with Large Diameter, Felix Paulauskas, ORNL	Yes	Felix Paulauskas
Wednesday, June 23, 2021	11:45 AM			
Wednesday, June 23, 2021	12:00 PM	MAT204: New Frontier in Polymer Matrix Composites via Tailored Vitrimer Chemistry, Tomonori Saito, ORNL	Yes	Tomonori Saito
Wednesday, June 23, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH				
	12:40 PM	LUNCH		
Wednesday, June 23, 2021	1:40 PM	MAT205: Adopting Heavy-Tow Carbon Fiber for Repairable, Stamp-Formed Composites, Amit Naskar, ORNL	Yes	Amit Naskar
Wednesday, June 23, 2021	1:55 PM			
Wednesday, June 23, 2021	2:10 PM	MAT206: Soft Smart Tools Using Additive Manufacturing, Jay Gaillard, SRNL	Yes	Jay Gaillard
Wednesday, June 23, 2021	2:25 PM			
Wednesday, June 23, 2021	2:40 PM	MAT207: Multi-Material, Functional Composites with Hierarchical Structures, Christopher Bowland, ORNL	Yes	Christopher Bowland
Wednesday, June 23, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK				
	3:15 PM	BREAK		
Wednesday, June 23, 2021	3:45 PM	MAT208: Efficient Synthesis of Kevlar and Other Fibers from Polyethylene Terephthalate (PET) Waste, Lelia Cosimbescu, PNNL	Yes	Lelia Cosimbescu

MAT - Carbon Fiber and Composites

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021	4:00 PM			
Wednesday, June 23, 2021	4:15 PM	MAT209: Bio-based, Inherently Recyclable Epoxy Resins to Enable Facile Carbon-Fiber Reinforced Composites Recycling, Gregg Beckham, NREL	Yes	Gregg Beckham
Wednesday, June 23, 2021	4:30 PM			
Wednesday, June 23, 2021	4:45 PM	MAT210: A Novel Manufacturing Process of Lightweight Automotive Seats - Integration of Additive Manufacturing and Reinforced Polymer Composite, Patrick Blanchard, Ford Motor Company	Yes	Patrick Blanchard
Wednesday, June 23, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK		BREAK		
Wednesday, June 23, 2021	5:50 PM			
Wednesday, June 23, 2021	6:05 PM			
Wednesday, June 23, 2021	6:20 PM			
Wednesday, June 23, 2021	6:35 PM			
Wednesday, June 23, 2021	6:50 PM			

2021 VTO AMR Schedule

MAT - MMJ, Automotive Metals, and Propulsion Materials

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021				
Tuesday, June 22, 2021	10:00 AM	MAT162: Machine Learning and Supercomputing to Predict Corrosion/Oxidation of High-Performance Valve Alloys, Dongwon Shin, ORNL	Yes	Dongwong Shin
Tuesday, June 22, 2021	10:15 AM			
Tuesday, June 22, 2021	10:30 AM			
Tuesday, June 22, 2021	10:45 AM			
Tuesday, June 22, 2021	11:00 AM	MAT163: Multiscale Modeling of Corrosion and Oxidation Performance and Their Impact on High-Temperature Fatigue of Automotive Exhaust Manifold Components, Mei Li, Ford	Yes	Mei Li
Tuesday, June 22, 2021	11:15 AM			
Tuesday, June 22, 2021	11:30 AM	MAT164: Multiscale Development and Validation of the Stainless Steel Alloy Corrosion (SStAC) Tool for High-Temperature Engine Materials, Michael Tonks, University of Florida	Yes	Michael Tonks
Tuesday, June 22, 2021	11:45 AM			
Tuesday, June 22, 2021	12:00 PM	MAT187: Fundamental Studies of Complex Precipitation Pathways in Lightweight Alloys, Dongwon Shin, ORNL	Yes	Dongwong Shin
Tuesday, June 22, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH		LUNCH		
Tuesday, June 22, 2021	1:40 PM	MAT188: Properties of Cast Aluminum-Copper-Manganese-Zirconium Alloys, Amit Shyam, ORNL	Yes	Amit Shyam
Tuesday, June 22, 2021	1:55 PM			
Tuesday, June 22, 2021	2:10 PM	MAT217: New Higher Temperature Performance Alloys (1A2), Amit Shyam and Dongwon Shin, ORNL	Yes	Amit Shyam
Tuesday, June 22, 2021	2:25 PM			
Tuesday, June 22, 2021	2:40 PM	MAT190: Oxidation Resistant Valve Alloys, G. Muralidharan, ORNL	Yes	G. Muralidharan
Tuesday, June 22, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK		BREAK		
Tuesday, June 22, 2021	3:45 PM	MAT193: Higher Temperature Heavy-Duty Piston Alloys, Dean Pierce, ORNL	Yes	Dean Pierce
Tuesday, June 22, 2021	4:00 PM			
Tuesday, June 22, 2021	4:15 PM	MAT183: High-Temperature Coatings for Valve Alloys, Sebastien Dryepondt, ORNL	Yes	Sebastien Dryepondt
Tuesday, June 22, 2021	4:30 PM			
Tuesday, June 22, 2021	4:45 PM	MAT184: Development of Cast, Higher Temperature Austenitic Alloys, Yuki Yamamoto, ORNL	Yes	Yuki Yamamoto
Tuesday, June 22, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK		BREAK		
Tuesday, June 22, 2021	5:50 PM	MAT218: Selective Material Processing to Improve Local Properties (2B2), Glenn Grant, PNNL	Yes	Glenn Grant
Tuesday, June 22, 2021	6:05 PM			

MAT - MMJ, Automotive Metals, and Propulsion Materials

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Tuesday, June 22, 2021	6:20 PM	MAT189: Fundamental Development of Aluminum Alloys for Additive Manufacturing, Alex Plotkowski, ORNL	Yes	Alex Plotkowski
Tuesday, June 22, 2021	6:35 PM			
Tuesday, June 22, 2021	6:50 PM			
Wednesday, June 23, 2021				
Wednesday, June 23, 2021	10:00 AM	MAT219: Fundamentals of Non-Equilibrium Processing, Ying Yang, ORNL	Yes	Ying Yang
Wednesday, June 23, 2021	10:15 AM			
Wednesday, June 23, 2021	10:30 AM	MAT185: Additively Manufactured Interpenetrating Composites (AMIPC) via Hybrid Manufacturing, Derek Splitter, ORNL	Yes	Derek Splitter
Wednesday, June 23, 2021	10:45 AM			
Wednesday, June 23, 2021	11:00 AM	MAT192: Fundamentals of Austenitic Alloys via Additive Manufacturing, Sebastien Dryepondt, ORNL	Yes	Sebastien Dryepondt
Wednesday, June 23, 2021	11:15 AM			
Wednesday, June 23, 2021	11:30 AM	MAT220: Ferritic Alloys for Heavy-Duty Pistons via Additive Manufacturing (3B2), Peeyush Nandwana and Amy Elliott, ORNL	Yes	Peeyush Nandwana
Wednesday, June 23, 2021	11:45 AM			
Wednesday, June 23, 2021	12:00 PM	MAT191: Overview of Advanced Characterization within the Powertrain Materials Core Program, Tom Watkins, ORNL	Yes	Tom Watkins
Wednesday, June 23, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH	12:40 PM	LUNCH		
Wednesday, June 23, 2021	1:40 PM	MAT186: Modeling of Light-Duty Engines, Charles Finney, ORNL	Yes	Charles Finney
Wednesday, June 23, 2021	1:55 PM			
Wednesday, June 23, 2021	2:10 PM	MAT221: Lightweight and Highly-Efficient Engines Through Al and Si Alloying of Martensitic Materials, Dean Pierce and Yong Ching-Chen, ORNL/Cummins	Yes	Dean Pierce
Wednesday, June 23, 2021	2:25 PM			
Wednesday, June 23, 2021	2:40 PM	MAT222: Extending Ultrasonic Welding Techniques to New Material Pairs, Jian Chen, ORNL	Yes	Jian Chen
Wednesday, June 23, 2021	2:55 PM	MAT223: Extending High Rate Riveting to New Material Pairs, Kevin Simmons, PNNL	Yes	Kevin Simmons
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Wednesday, June 23, 2021	3:45 PM			
Wednesday, June 23, 2021	4:00 PM	MAT224: Solid State Joining of Multi-Material Autobody Parts Toward Industry Readiness, Piyush Upahdyay and Yong Chae Lim, PNNL/ORNL	Yes	Piyush Upahdyay

MAT - MMJ, Automotive Metals, and Propulsion Materials

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Wednesday, June 23, 2021	4:15 PM	MAT225: Surface Modifications for Improved Joining and Corrosion Resistance, Mike Brady and Vineet Joshi, ORNL/PNNL	Yes	Mike Brady
Wednesday, June 23, 2021	4:30 PM	MAT226: Machine Learning for Joint Quality and Control, Zhili Feng and Keerti Kappagantula, ORNL/PNNL	Yes	Keerti Kappagantula
Wednesday, June 23, 2021	4:45 PM	MAT151: Phase-Field Modeling of Corrosion for Design of Next-Generation Magnesium-Aluminum Vehicle Joints, Adam Powell, Worcester Polytechnic Institute	Yes	Adam Powell
Wednesday, June 23, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK		BREAK		
	5:20 PM			
Wednesday, June 23, 2021	5:50 PM	MAT152: A Hybrid Physics-Based, Data-Driven Approach to Model Damage Accumulation in Corrosion of Polymeric Adhesives, Roozbeh Dargazany, Michigan State University	Yes	Roozbeh Dargazany
Wednesday, June 23, 2021	6:05 PM			
Wednesday, June 23, 2021	6:20 PM	MAT153: Multi-Scale Computational Platform for Predictive Modeling of Corrosion in Aluminum-Steel Joints, Miki Banu, University of Michigan	Yes	Miki Banu
Wednesday, June 23, 2021	6:35 PM			
Wednesday, June 23, 2021	6:50 PM			
Thursday, June 24, 2021				
Thursday, June 24, 2021	10:00 AM	MAT227: Prediction of Aluminum/Steel Joint Failure, Chris Smith and Blair Carlson, PNNL/General Motors Company	Yes	Chris Smith
Thursday, June 24, 2021	10:15 AM			
Thursday, June 24, 2021	10:30 AM	MAT149: Shear Assisted Processing and Extrusion (ShAPE) of Lightweight Alloys for Automotive Components, Scott Whalen, PNNL	Yes	Scott Whalen
Thursday, June 24, 2021	10:45 AM			
Thursday, June 24, 2021	11:00 AM	MAT228: New Technologies for High-Performance Lightweight Aluminum Castings, Paul Jablonski and Qigui Wang, NETL/General Motors Company	Yes	Paul Jablonski
Thursday, June 24, 2021	11:15 AM			
Thursday, June 24, 2021	11:30 AM	MAT229: Development of a Novel Magnesium Alloy for Thixomolding of Automotive Components, Govindarajan Muralidharan and Bryan Macek, ORNL/FCA LLC	Yes	Govindarajan Muralidharan
Thursday, June 24, 2021	11:45 AM			
Thursday, June 24, 2021	12:00 PM	MAT230: Laser Powder Bed Fusion Parameter Development for Novel Steel and Aluminum Powders Using In Situ Synchrotron Imaging and Diffraction, Aaron Greco and Anil Sachdev, ANL/General Motors Company	Yes	Aaron Greco
Thursday, June 24, 2021	12:15 PM			
	12:30 PM	Time Buffer		
LUNCH		LUNCH		
	12:40 PM			
Thursday, June 24, 2021	1:40 PM			
Thursday, June 24, 2021	1:55 PM	MAT231: Light Metals Core Program Introduction, David Gotthold, PNNL	No	David Gotthold
Thursday, June 24, 2021	2:10 PM	Mat232: Light Metals Core Program - Thrust 1 – Selective Processing of Al Sheet, Darrel Herling, PNNL	Yes	Darrel Herling

MAT - MMJ, Automotive Metals, and Propulsion Materials

Date	Time	Project ID, Title, PI, Organization	Review? Yes or No	PI Name
Thursday, June 24, 2021	2:25 PM			
Thursday, June 24, 2021	2:40 PM	MAT233: Light Metals Core Program - Thrust 2 – Selective Processing of Al Castings, Glenn Grant, PNNL	Yes	Glenn Grant
Thursday, June 24, 2021	2:55 PM			
	3:10 PM	Time Buffer		
BREAK	3:15 PM	BREAK		
Thursday, June 24, 2021	3:45 PM	MAT234: Light Metals Core Program - Thrust 3 – Selective Processing of Mg Castings, Vineet Joshi, PNNL	Yes	Vineet Joshi
Thursday, June 24, 2021	4:00 PM			
Thursday, June 24, 2021	4:15 PM	MAT235: Light Metals Core Program - Thrust 4 - Characterization, Modeling and Lifecycle, Arun Devaraj, PNNL	Yes	Arun Devaraj
Thursday, June 24, 2021	4:30 PM			
Thursday, June 24, 2021	4:45 PM	MAT127: USAMP Low-Cost Magnesium Sheet Component Development and Demonstration Project, Randy Gerken, PNNL	No	Randy Gerken
Thursday, June 24, 2021	5:00 PM			
	5:15 PM	Time Buffer		
BREAK	5:20 PM	BREAK		
Thursday, June 24, 2021	5:50 PM			
Thursday, June 24, 2021	6:05 PM			
Thursday, June 24, 2021	6:20 PM			
Thursday, June 24, 2021	6:35 PM			
Thursday, June 24, 2021		AMR ends		