2024 Vehicle Technologies Office Annual Merit Review Decarbonization of Offroad, Marine, and Aviation (DORMA) Oral Presentation Detailed Schedule

Decarbonization of Officad, Marine, and Aviation (Dortwa) Offair resentation Detailed Schedule				
Tuesday, June 4, 2024		Wednesday, June 5, 2024		Thursday, June 6, 2024
9:00 AM DORMA022 (ACE184): Development of a Flex-Fuel	9:00 AM	DORMA027 (ACE170): Control of aldehyde emissions		DORMA052 : Simulation of Jet Engine Performance using SAF
Mixing Controlled Combustion System for	9:15 AM	from alcohol-fueled non-road engines, Sreshtha Sinha		Blends, Shashank Yellapantula, NREL
9:15 AM Gasoline/Ethanol Blends Enabled by Prechamber		Majumdar, ORNL		DORMA051 : Fuel effects on aviation engine emissions – a modeling
Ignition, Adam Dempsey, Marquette University	9:30 AM	DORMA029 (ACE172): Fast Simulation of Real Driving		tool for SAF screening, Dario Lopez-Pintor, Sandia
9:30 AM DORMA026 (ACE183): Articulated Dump Truck (ADT)	9:45 AM	Emissions from Heavy-duty Diesel Vehicle Integrated with		DORMA038: Towards Accurate Combustion and Emissions Modeling
Electrification - Greenhouse Gas Reductions and		Advanced Artertreatment System, Hallin Li, WVO		of Sustainable Aviation Fuels, Debolina Dasgupta, ANL
9:45 AM Commercialization of New Technology, Brij Singh, John		DORMA043: Low-load cycle emission control, Yong		DORMA020: Sustainable Aviation Fuel (SAF) Contrail Modeling,
Deere		Wang, PNNL	10:45 AM	
10:00 AM DORMA025 (ACE182): Fully Electric Powered,	10:30 AM	DORMA028 (ACE173): Comprehensive Integrated		DORMA019: Multi-phase flow studies of SAFs for industry-relevant
10:15 AM Hydraulic Assisted, Compact Track Loader, Perry Li,	10:45 AM	Simulation Methodology for Enabling Near-Zero Emission		conditions and geometries, Brandon Sforzo, ANL
University of Minnesota		Heavy-Duty Vehicles, Andrea Strzelec, UW Madison	11:30 PM	
10:30 AM DORMA040: Optimized Low Carbon Fuel Range		DORMA042: Unforeseen challenges with renewable fuels,	11:40 PM	
10:45 AM Extender (HyREX), Jon Dickson, Cummins		Konstantin Khivantsev, PNNL		DORMA018: SAF Combustion and Contrail Formation Research,
11:00 PM DORMA010: Off-Road Decarbonized Fuel Transient	11:30 PM			Julien Manin, Sandia
11:15 PM Performance, Muni Biruduganti, ANL	11:40 PM		1:40 PM	DORMA003: Soot Predictions from DNS of a lab-scale combustor
11:30 PM Time Buffer		DORMA030 (ACE187): Opposed-Piston 2-Stroke Hybrid	1:55 PM	with sustainable aviation fuels, Bruno Souza Soriano and Jackie
11:40 PM Lunch Break	1:25 PM	Commercial Vehicle System, Ming Huo, Achates Power		Chen, Sandia
1:10 PM DORMA004: Mixing-controlled compression-ignition	1:40 PM	,		DORMA037: Sustainable Aviation Fuel Characterization, Gina Fioroni,
1:25 PM combustion with low-lifecycle-CO2 fuels, Sandia	1:55 PM	locomotive engines - CRADA with Wabtec, Dean	2:25 PM	
1:40 PM DORMA005: Alcohol spray and H2 jet experiments and		Edwards, ORNL	2:40 PM	DORMA047: High-Efficiency Mixing Controlled Compression Ignition
1:55 PM modeling, Lyle Pickett, Sandia	2:10 PM	DORMA012: Enabling Hydrogen Combustion for Large-	2.40 1111	Combustion of Propane Dimethyl Ether Blends, Sage Kokjohn, UW
2:10 PM DORMA006: Low Lifecycle Carbon Fuel (LLCF)	2:25 PM	Bore Locomotive Engines through Advanced CFD	2:55 PM	DORMA048: Medium Duty Off-Road DME Engine Achieving High
2:25 PM combustion and emission models, LLNL		Modeling, Muhsin Ameen, ANL	2.00 PIVI	Efficiency And Ultra Low Emissions, Andre Boehman, U-Michigan
2:40 PM DORMA002: Alcohol combustion in CI engines -		DORMA016: Renewable methanol-fueled engines for	3:10 PM	
2:55 PM understanding mixing, ignition and pollutant emissions,		marine and off-road applications, Jim Szybist, ORNL	3:15 PM	
Dario Lopez-Pintor, Sandia	3:10 PM	Time Buffer	3:45 PM	DORMA033 (ACE180): High Pressure Fast Response Direct Injection
3:10 PM Time Buffer	3:15 PM		4:00 PM	System for Liquified Gas Fuels Use in Light-Duty Engines, William de
3:15 PM Break		DORMA046: Ammonia for 4-stroke Marine Dual Fuel and	4.00 FIVI	Ojeda, WM International Engineering
3:45 PM DORMA001: Overcoming key barriers to H2ICEs –	4:00 PM	Gas Engines (Retrofits and New), Scott Curran, ORNL		DORMA032 (ACE185): High Efficiency, Ultra Low Emissions Heavy-
4:00 PM mixing, pre-ignition, and ultra-lean operation, Ales Srna,	4:15 PM		4:30 PM	Duty 10L Natural Gas Engine Project, Tim Lutz, Cummins
Sandia	4:30 PM	(PGM) in Catalytic Converters: An Atoms-to-Autos		DORMA049 (ACE174): Plasma-Assisted Pre-Chamber Ignition
4:15 PM DORMA021 (ACE171): Simultaneous Greenhouse Gas	7.50 1 101	Approach, Kevin Gu, GM	4:45 PM	System for Highly Dilute Stoichiometric Heavy-Duty Natural Gas
and Criteria Pollutants Emissions Reduction for Off-	4:45 PM	DORMA045: Biodiesel poisoning of close-coupled SCR		Engines, Will Northrup, University of Minnesota
4:30 PM Road Powertrains, James McCarthy, Eaton	4.45 6101	catalysts for off-road engines, Todd Toops, ORNL		DORMA050: A Low Greenhouse Gas Advanced Spark Ignition Engine
4:45 PM DORMA041: Low greenhouse gas NOx control, Dhruba	5:00 PM	DORMA015: Enabling H2 and Methanol Combustion,	5:00 PM	that can Operate on Natural Gas and Natural Gas-Hydrogen Blends
5:00 PM Deka, PNNL		Riccardo Scarcelli, ANL		with Diesel, Jeff Naber, Michigan Technical University
5:15 PM Day 1 Ends	5:30 PM	Day 2 Ends	5:15 PM	
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