

Off-Road, Rail, Marine and Aviation Technologies (ORMA)					
	Tuesday, June 2		Wednesday, June 3		Thursday, June 4
8:00 AM	Continental Breakfast				
9:00 AM	ORMA001: Overcoming key barriers to H2ICEs – mixing, pre-ignition, and ultra-lean operation Ales Srna, Sandia National Laboratories	9:00 AM	ORMA045: Impact of fuel-borne impurities on close-coupled SCR catalysts for off-road engines Todd Toops, Oak Ridge National Laboratory	9:00 AM	ORMA003: Development of modeling tools for aviation combustion and emissions Isaac Ekoto, Sandia National Laboratory
9:30 AM	ORMA002: Alcohol combustion in CI engines - understanding mixing, ignition and pollutant emissions Dario Lopez-Pintor, Sandia National Laboratories	9:30 AM	ORMA059: Robust NH3-SCR Catalysts to Enable H2-ICEs Yong Wang, Pacific Northwest National laboratory	9:30 AM	ORMA046: Ammonia for 4-stroke Marine Dual Fuel and Gas Engines (Retrofits and New) Scott Curran, Oak Ridge National Laboratory
10:00 AM	ORMA004: Mixing-controlled compression-ignition combustion with low-lifecycle-CO2 fuels Chuck Mueller, Sandia National Laboratories	10:00 AM	ORMA075: Exploring Hybrid Powertrain for Commercial Trucks Ram Vijaygopal, Argonne National Laboratory	10:00 AM	ORMA016: Methanol-fueled engines for marine and off-road applications Derek Splitter, Oak Ridge National Laboratory
10:30 AM	ORMA005: Alcohol spray and H2 jet experiments and modeling Lyle Pickett, Sandia National Laboratories	10:30 AM	ORMA073: Industrial Locomotive Inventory Analysis Alicia Birkey, National Laboratory of the Rockies	10:30 AM	ORMA019: Multi-phase flow studies of SAFs for industry-relevant conditions and geometries Brandon Sforzo, Argonne National Laboratory
11:00 AM		11:00 AM	ORMA072: Advanced Rail Technologies for Freight Efficiency and Study of Discontinuous Catenary Jason Lustbader, National Laboratory of the Rockies	11:00 AM	ORMA020: Aviation Emissions Modeling Matt McNenly, Lawrence Livermore National Laboratory
11:30 AM	Lunch				
1:10 PM	ORMA015: Predictive CFD Tools for Off-road IC Engines utilizing alternative fuels Riccardo Scarcelli & Roberto Torelli, Argonne National Laboratory	1:00 PM	ORMA071: Enhancing Freight Rail Energy Efficiency through Locomotive Innovation Ram Vijaygopal, Argonne National Laboratory	1:10 PM	ORMA006: Low Lifecycle Carbon Fuel (LLCF) combustion and emission models Scott Wagnon, Lawrence Livermore National Laboratory
1:40 PM	ORMA081: Off-road applications H2-MCE transient test-facility with EIL Khizer Tufail, Argonne National Laboratory	1:40 PM	ORMA061: Enabling Alternative Fuels for Rail and Marine Sectors Essam El-Hannouny, Argonne National Laboratory	1:40 PM	ORMA018: SAF Combustion and Contrail Formation Research Julien Manin, Sandia National Laboratories
2:10 PM	ORMA027 (ACE170): Control of aldehyde emissions from alcohol-fueled non-road engines Sreshtha Majumdar, Oak Ridge National Laboratory	2:10 PM	ORMA014: Implementing low lifecycle carbon fuels on locomotive engines – CRADA with Wabtec Dean Edwards, Oak Ridge National Laboratory	2:10 PM	ORMA038: Towards Accurate Modeling of Fuel and Combustion Characteristics of SATF Debolina Dasgupta, Argonne National Laboratory
2:40 PM	ORMA082: Off-road applications H2-SCE pre-ignition combustion mitigation Khizer Tufail, Argonne National Laboratory	2:40 PM	ORMA012: Enabling Hydrogen Combustion for Large-Bore Locomotive Engines through Advanced CFD Modeling Muhsin Ameen, Argonne National Laboratory	2:40 PM	ORMA062: Measurements of Fundamental Combustion Behavior: SATFs and Surrogates Scott Goldsborough, Argonne National Laboratory
3:30 PM	Break				
3:45 PM	ORMA041: Reducing Low-load Emissions and N2O Dhruba Deka, Pacific Northwest National Laboratory	3:45 PM	ORMA084: Development and Validation of Gas Turbine Engine Models for Synthetic Aviation Fuel Usage Brandon Sforzo, Argonne National Laboratory	3:45 PM	
		4:00 PM			
4:15 PM	ORMA042: Unforeseen challenges with renewable fuels Kenneth Rappe, Pacific Northwest National Laboratory	4:15 PM	ORMA037: Sustainable Aviation Fuel Characterization Gina Fioroni, National Laboratory of the Rockies	4:15 PM	
		4:30 PM			
4:45 PM	ORMA043: Low-load cycle emission control Yong Wang, Pacific Northwest National Laboratory	4:45 PM	ORMA052: Simulation of Jet Engine Performance using SAF Blends Shashank Yellapantula, National Laboratory of the Rockies	4:45 PM	
		5:00 PM			