

Wednesday, September 23, 2020

AM Session	Plenary & Keynote: Zero Emissions & Battery Propulsion Pathways Session Chairs: Jim McCarthy, PhD Chief Engineer <i>Eaton</i> Hank Sullivan Director <i>Tenneco</i>	PM Session	Design & Engineering Session Chairs: Louise Arnold, PhD Director <i>Johnson Matthey</i> Krishna Gunugunuri, PhD Research Scientist <i>Toyota</i>
Time		Time	
9:00 am	Innovation in Commercial Vehicle Powertrains for 2024 – 2030 Emissions Mihai Dorobantu, PhD <i>Eaton</i>	1:45 pm	NOx and GHG Reduction Over Real World Drive Cycles in a HD Test Cell Using Diesel CDA with NVH Quantification James McCarthy, Jr., PhD, <i>Eaton</i>
9:30 am	Trends in Powertrain Evolution: Legislation and Architecture Developments Louise Arnold, PhD <i>Johnson Matthey</i>	2:30 pm	Real-world Emissions Test Results from US and European Passenger Car Markets Nick Molden, James Hobday <i>Emissions Analytics LLC</i>
10:00 am	Updating New Regulations in China Reggie Zhan, PhD	3:00 pm	Model-based Exhaust Aftertreatment Optimization Waldemar Linares, PhD <i>AVL Powertrain Engineering</i>
10:30 am	Break		
10:45 am	Fundamental and Application Challenges in Emissions Aftertreatment Components Krishna Kamasamudram, PhD <i>Cummins</i>	3:30 pm	Break
11:15 am	Update on Path to 2027 Emissions Chris Sharp, PhD <i>SwRI</i>	3:45 pm	48V EGR Pump for Fuel Economy Improvement and NOx Reduction for Diesel Engines Justin Hopkins <i>Eaton</i>
11:45 am	EV Update Warren Parsons <i>General Motors</i>		
12:30 pm	Next Generation Circuit Protection in Electric Vehicles Kevin Calzada <i>Eaton</i>	4:45 pm	Real-World Emissions Testing Experience and Results from Construction, Locomotive and Marine Applications Nick Molden, James Hobday <i>Emissions Analytics LLC</i>
1:00 pm	Challenging Each Other: Advancing Capabilities and Needs for Battery Cells vs Battery Systems Kent Snyder <i>Ford</i>		
1:30 pm	Session Adjourned & Lunch	5:15 pm	Adjournment

Thursday, September 24, 2020

AM Session	Catalytic Reduction Session Chairs: Krishna Kamasamudram, PhD Technical Advisor <i>Cummins</i> Tsuyoshi Asako Manager <i>NGK</i>	PM Session	Systems Optimization Session Chairs: Waldemar Linares, PhD Technical Advisor <i>Cummins</i> Ashok Kumar, PhD Technical Advisor <i>Cummins</i>
Time		Time	
9:00 am	At Source Brake Dust Collection System Loïc Adamczak, PhD	1:15 pm	GPF Overview Tsuyoshi Asako <i>NGK</i>
9:45 am	Spinel Catalyst for NOx Removal Applications Krishna Gunugunuri, PhD <i>Toyota</i>	1:45 pm	Advances in Opposed Piston Engines Showing Promise for 2027 Emissions John Major <i>Achates Power</i>
10:15 am	Rim's GreenPower™ Muffler "H-EGR" reduces Fuel Consumption and Climate Change Julius J. Rim, PhD <i>IMET</i>	2:15 pm	Fundamental and Application Challenges in Emissions Aftertreatment Components Part 2 Ashok Kumar, PhD <i>Cummins</i>
10:45 am	Break	2:45 pm	Break
11:15 am	Measurement of Polycyclic Aromatic Hydrocarbons (PAH) and Hydrocarbon Speciation in Diesel Exhaust using Partial and Total Dilution Systems Robert Fanick, Vinay Premnath, PhD, Dewitt Evans, PhD, Brian Moczygemba, PhD <i>Southwest Research Institute</i>	3:45 pm	
11:45 am	High Porosity SCR Substrate Tsuyoshi Asako <i>NGK Detroit</i>	4:15 pm	
12:15 pm	Session Adjourned & Lunch	4:45 pm	Adjournment