

Wednesday, June 8, 2022

AM Session	Plenary & Keynote: Pathways to Vehicle Efficiency & Zero Emissions Propulsions Session Co -Chairs: Jim McCarthy, PhD Senior Chief Engineer, <i>Eaton</i> Michael Geller, PhD Deputy Director, <i>MECA</i>	PM Session	Technical Session: Catalytic Reductions Session Chair: Krishna Kamasamudram, PhD Technical Advisor Krishna Gunugunuri, PhD Technical Specialist <i>Cummins</i>
Time	Room Amphitheatre 101	Time	Room Amphitheatre 101
9:00 am	Welcome & Introductions Michael Geller, PhD Deputy Director <i>MECA</i>	1:15 pm	Demonstrated Solutions for Meeting 2027 NOx and CO2 - Keynote James McCarthy, PhD <i>Eaton</i>
9:15 am	Challenges in Battery Manufacturing for an all-EV Future Jeff Abell, PhD Director and Chief Scientist of Manufacturing Systems Research, <i>General Motors</i>	2:00 pm	Deactivation study of Real-World Aged Diesel Oxidation Catalysts Krishna Gunugunuri, PhD <i>Cummins</i>
9:45am	Pathway to Heavy Duty Zero Emissions Jim McCarthy, PhD Senior Chief Engineer Mihai Dorobantu, PhD Director, <i>Eaton</i>	2:30 pm	Break
10:15 am	Challenges in emission aftertreatment components Krishna Kamasamudram, PhD <i>Cummins</i>	3:00 pm	48V Systems for NOX and CO2 Reduction in Commercial Vehicles Ben Karrer <i>Eaton</i>
10:45 am	Break		
11:15 am	Efficiency-biased design of H2-Engines for use in commercial LD and HD applications to meet ultimate market needs under upcoming carbon-neutral legislative requirements Thomas Körfer Executive Vice President Yousef Jelhouni, PhD , Senior Project Manager <i>FEV</i>	3:30 pm	Characterizing the Light-off Effects of High Porosity Three-Way-Catalyst Substrates with Vehicle Testing Using Different Coating Technologies Tsuyoshi Asako <i>NGK Detroit</i>
11:45 pm	The Future of Diesel Alexander Freitag Vice President of Engineering, Powertrain Solutions <i>Bosch</i>	4:00 pm	Evaluation of 48V technologies to meet future CO2 and low NOx emission regulations for Medium Heavy-Duty Diesel Engines Mufaddel Dahodwala, PhD Dhanraj <i>FEV</i>
12:15 pm	Session Adjourned & Lunch	4:30 pm	Adjournment

Thursday, June 9, 2022

AM Session	Technical Session: Regulations & Compliance Session Chairs: Tsuyoshi Asako Manager <i>NGK – Detroit</i>		Technical Session: Fuel System Optimization for Vehicle Efficiency Session Co-Chairs: Reggie Zhang, PhD Professor <i>Shanghai Jiao Tong University</i> Mansour Masoudi, PhD R & D Director <i>Emissol LLC</i>
Time	Room Amphitheatre 101	Time	Room Amphitheatre 101
9:00 am	MD DPF Development for Lower Pressure Drop while maintaining Durability Paul Chancey <i>NGK - Detroit</i>	1:00 pm	Comparative Life-cycle Analysis of Medium and Heavy Diesel and Fuel-cell Electric Trucks Jarod Kelly, PhD <i>Argonne National Laboratory</i>
9:30 am	CARB Heavy Duty Program Update Bill Robertson <i>CARB</i>	1:30 pm	Development of a Ultra-Low Emissions Heavy-Duty Gasoline Compression Ignition Engine Yu Zhang, PhD, <i>Aramco Americas</i>
10:00 am	A New Urea Mixer for Low-Temperature Drive Cycles, California 2027 and Euro-7 NOx Regulations Mansour Masoudi, PhD <i>Emissol</i>	2:00 pm	Break
10:30 am	Break		
11:00 am	Low NOx update Christopher Sharp, PhD <i>SwRI</i>	2:30 pm	Ultralow NOx Heavy Duty Diesel Engine: PEM measurements from the CARB-funded Opposed-Piston Engine Demonstration Program CJ Kalebjian, Fabien Redon, Laurence Fromm <i>Achates Power</i>
11:30 am	Future Low-NOx Regulation Compliance with an Exhaust Burner Thomas Harris, PhD <i>Tenneco</i>	3:00 pm	Challenges & Evolution of Controls in John Deere Power Systems Taner Tuken, PhD <i>John Deere</i>
12:00 pm	Session Adjourned & Lunch	3:30 pm	Session Adjourned

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