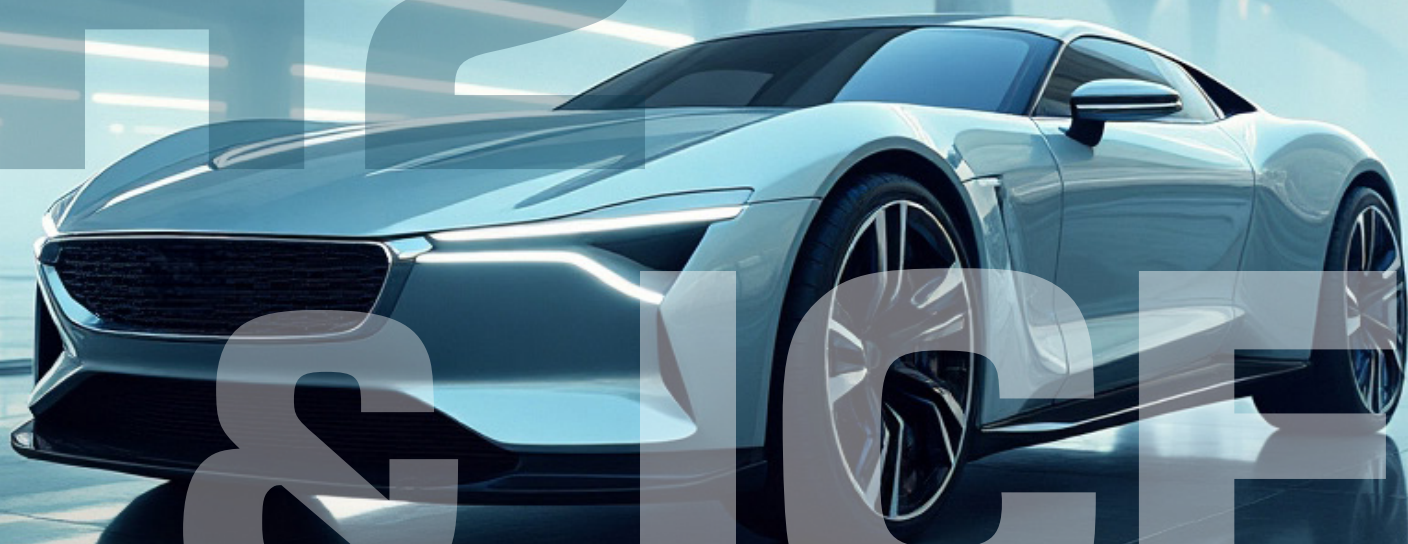


Advanced Mobility Fuels Summit 2025

itB
GROUP
when technology matters

In-Person March 20, 2025

The Sheraton Detroit Novi Hotel • Novi, Michigan, USA



Exhibitors To-Date:

Arkema

Evonik

Kuraray

Schrader Pacific

VexaGroup

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ARKEMA

EVONIK
Leading Beyond Chemistry

kuraray

Register to Attend at www.itbgroup.com

Program Agenda - March 20, 2025

7:30 a.m. **Registration, Networking, and Continental Breakfast**

8:45 a.m. **Welcome and Opening Remarks**
Dr. Joel Kopinsky, Managing Director and Co-Founder - The ITB Group

DEVELOPMENTS IN FUEL SYSTEMS AND THE HYBRID VEHICLE MARKET

9:00 a.m. **Innovative Fuel Systems for Hybrid Vehicles: Meeting Stringent Purity Requirements**
Thomas Prenveille, Technical Service & Development Manager

Arkema

Arkema has developed cutting-edge solutions to meet the increasing demands for low wash-out fuel lines in hybrid vehicles. As regulations evolve and more OEMs require fuel systems that maintain high gasoline purity, Arkema's cost-effective technologies ensure compliance with the strictest standards, addressing both current and future industry needs.

9:30 a.m. **The Role of HEV, PHEV, and EREV Powertrains in North America's Electrification**
Darren Nowak, Director, Research and Analysis

The ITB Group

An overview of transitional powertrains, including hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), and extended-range electric vehicles (EREVs), discussing their role in emissions reduction, regulatory compliance, and market adaptability in North America.

10:00 a.m. **Innovative Fuel Line Solutions using Evonik's VESTAMID® Specialty Polyamides**
Dr. Christian Kochanek, Business Development Manager

Evonik

A multi-layer fuel line solution that meets the specific requirements of hybrid electric vehicles (HEVs) is presented. The solutions ensure low permeation and extractables. These lines utilize VESTAMID specialty nylons, aligning with the increasing market shift towards HEVs.

10:30 a.m. **Coffee and Networking Break**

FUELS FOR MEETING MOBILITY'S FUTURE NEEDS

11:00 a.m. **Startup Showcase: Fuel Innovations**
Sente Ventures

11:30 a.m. **Novel Powertrain Design Featuring On-Board Dehydrogenation of Liquid Organic Hydrogen Carriers To Decarbonize Long-Haul Trucking**

Sayandeep Biswas, Ph.D. Candidate
MIT

Discussion on the use of Liquid Organic Hydrogen Carriers (LOHCs) as a cost-competitive alternative to traditional hydrogen distribution methods for long-haul trucking, including innovations to overcome efficiency challenges associated with LOHC systems.

12:00 p.m. **Pathways for Carbon Footprint Reduction in the Heavy-Duty Transportation Sector**

Dr. Rafael Lago Sari, Researcher

Aramco Americas/Aramco Research Center-Detroit

This presentation explores various technologies aimed at reducing the carbon footprint in the commercial transport sector, such as advanced combustion, hybrid powertrains, and hydrogen-based solutions. Each technology's cost-effectiveness and potential CO₂ savings are assessed to demonstrate their viability over different time horizons.

12:30 p.m. **Lunch**

CONTROLLING LIQUID AND VAPOR FUELS ON-BOARD

1:30 p.m. **What are Vehicle Evaporative Emissions - What are the Technologies to Mitigate?**
Johan Bruyninx, Senior Technical Manager
Fuel Systems

Idiada

Despite public oversight, evaporative emissions are crucial precursors to smog and secondary organic aerosols. This talk will cover the historical development and technological advances in reducing these emissions since their regulation began in the 1970s in the U.S. and the 1980s in the EU.

Presentations will be made available to conference attendees two weeks after the conference has concluded AND when provided permission by the speaker

1:50 p.m. Fuel Valve Development & Innovations for the Future

Greg Trulear, Senior Design and Development Engineer

Schrader Pacific

Insights are shared into a decades-long innovation in fuel valve manufacturing, detailing recent advancements in high-performance, cost-effective pressure devices for the automotive industry.

2:10 p.m. EPA/CARB Vehicle Evaporative PHEV Non-integrated Procedure Variations

Johan Bruyninx, Senior Technical Manager Fuel Systems

Idiada

This presentation addresses the discrepancies between EPA and CARB evaporative emission testing procedures, discussing the need for standardized methods to avoid execution errors and ensure fair comparisons among OEMs in Europe.

2:30 p.m. Coffee and Networking Break

HYDROGEN'S ROLE IN MOBILITY

3:00 p.m. Role of advanced BEVs and FCHEVs in Commercial Truck Segment

Ram Vijayagopal, Research Engineer

Argonne National Laboratory

A study is presented that analyzes the total cost of ownership for battery electric vehicles (BEVs) and fuel cell hybrid electric vehicles (FCHEVs) in the freight sector. The study finds that the most economical technology varies by specific vehicle applications and energy costs, with FCHEVs becoming more competitive at longer ranges.

3:30 p.m. Midwest Alliance for Clean Hydrogen (MachH2) Overview

Neil Banwart, Chief Integration Officer

MachH2

A detailed introduction to the MachH2, one of the U.S. DOE's hydrogen hubs, focusing on its proposed projects across Illinois, Indiana, and Michigan. This initiative aims to accelerate the clean hydrogen economy in the Midwest with a multi-billion dollar investment.

4:00 p.m. Update on Development of Conformable Hydrogen Storage Vessel

Charles Shappell, Director of Engineering

Noble Gas Systems

Update on Noble Gas Systems' innovations in lightweight, high-pressure gaseous storage vessels, including their regulatory compliance, market focus, and technological advantages over traditional Type IV tanks.

4:30 p.m. Ion Exchanger Cartridge with Improved Performance

Steve Wille, Product Portfolio Manager

Roechling

An ion exchanger cartridge is presented with a specific resin that offers enhanced cleaning performance and reduced pressure losses, designed for easy service replacements and adaptable performance levels within a single housing size.

5:00 p.m. Closing Remarks



Advanced Mobility Fuels Summit 2025

THURSDAY, MARCH 20, 2025

THE SHERATON DETROIT NOVI HOTEL

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