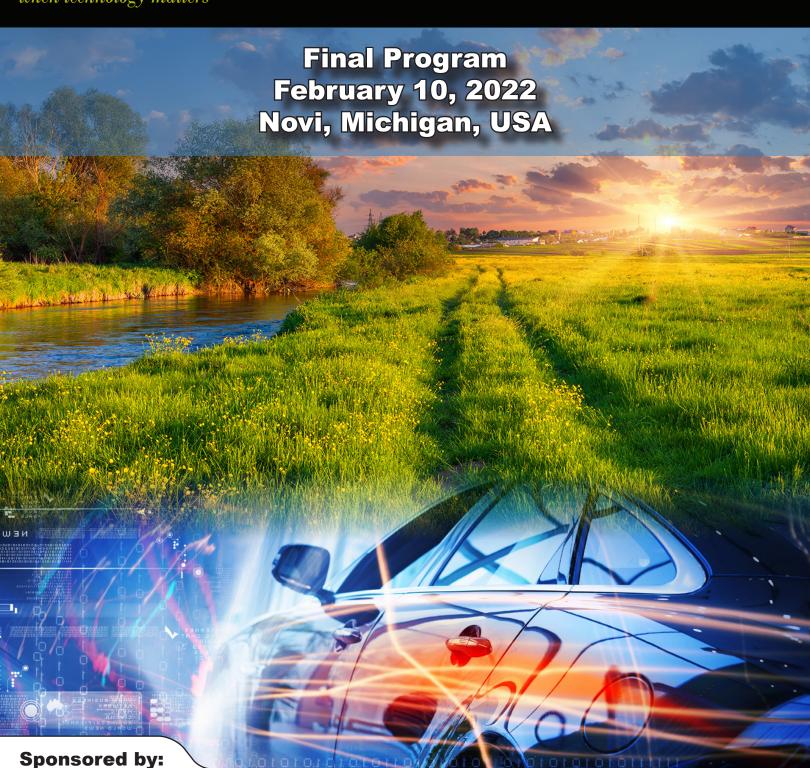


Critical Technologies for Sustainable Vehicle Production 2022 Conference















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

8:30 a.m. Welcome and Opening Remarks

Mitra O'Malley, Managing Director and Cofounder

The ITB Group

Strategies and Targets

8:45 a.m. Using a Baseline to Improve Accuracy of Waste Diversion Rate

Breitner Marczewski, Senior Sustainability Engineer

General Motors

As part of its new sustainability goal "Zero Waste", General Motors aims to divert 90% of its total waste generation from landfills and incineration with or without energy recovery by 2025. To achieve this goal, it is necessary to determine the correct method to track the percentage of waste diverted over time, since it will be the key performance indicator (KPI) of the program. This presentation will explore the methodology for developing this baseline.

9:15 a.m. Sustainability Approach in the Automotive Industry

David Schmitz, Business Development Manager **Evonik**

Sustainability strategy and targets will be discussed, including implementation and impacts on current and future product portfolios. Measurable results at the application level on a vehicle will be addressed, and a case study based on a life cycle assessment for tubing systems will demonstrate the most important levers to reach meaningful sustainability targets and provide a real benefit for the environment.

9:35 a.m. KEYNOTE PRESENTATION

Transitioning Toward a Circular Economy for Automotive Plastics and Polymer Composites

Gina Oliver, Senior Director, Automotive Team
American Chemistry Council (ACC)

A recent trend in the automotive industry is to rethink ways that vehicles and their materials are designed, constructed, used, and handled at end-of-life. As part of its presentation, ACC will highlight its research and discuss requirements and opportunities for the automotive industry and suppliers to rethink ways to achieve circularity.

10:00 a.m. Networking Break Sponsored by:



Justifying Material and Process Improvements

10:40 a.m. Circular Solutions for Automotive

Jimena Ruesta, Strategy Sustainability and Portfolio Enabling

Covestro

This presentation will overview Covestro's global circular economy/sustainable vision, latest polycarbonate solutions, and provide milestones in pursuit of their circular economy vision. The presentation will also raise key challenges which will require collaboration across the value chain to realize a more sustainable approach to automotive vehicle production.

11:00 a.m. High-Performance Recycled Plastics with a Quantified Environmental Impact

Eileen Gallihugh, Research Specialist, Technical Service and Development

Trinseo

A discussion on novel PC/ABS products based on hybrid technology and post-consumer recycled feedstocks will be provided. Meant even for high demanding interior applications, these new grades come to the market with quantified data of environmental impact.

11:20 a.m. Sustainable Film Solutions for Plastic Decoration

Paul Rye, Sales Manager

KURZ Transfer Products

The advantages of film technology as a sustainable approach for plastic decoration will be presented. Kurz will outline in-house 'life-cycle thinking' approach with examples of responsibility leadership in internal product manufacturing, customer processing, and consumer applications while showcasing the potential for closed-loop recycling with their RECOPOUND initiative.

11:40 a.m. Driving Sustainability with Next Generation Metal Pretreatment

David George, Surface Treatment Technical Manager **Henkel**

Aluminum plays a vital role in today's automotive manufacturing environment and increasing its use has required transformative changes to the metal pretreatment process in the paint shop, as traditional methods, such as zinc phosphating, limit use of aluminum to approximately 30 percent. Beyond 30 percent, bath chemistry is difficult to control, and sludge generation can overwhelm filtration units. Henkel has developed a thin film metal pretreatment process to help overcome these challenges.

12:00 p.m. Lunch

1:15 p.m.

Round Table Discussion

Creating A Better Circle – How to Create Recycling Loops that Didn't Exist Before

This panel will discuss the challenges and opportunities associated with advancing the circular economy in the automotive industry.

- Ascend Performance Materials Chris Johnson, Director of Sustainability
- Eastman Chris Scarazzo, Market Segment Manager, Automotive

Technical Expert

- Ford Motor Company Dr. Alper Kiziltas, Sustainable & Emerging Materials
- PADNOS Kari Bliss, Director of Sustainability
- The ITB Group Dr. Rose Ryntz, Vice President, Sustainability

Bringing Sustainable Components to Market

2:00 p.m. Journey to Develop and Produce Sustainable Products from ICE Fuel Systems to EV Battery Housings

Joerg Rautenstrauch, President and CEO

Kautex Textron

Many OEMs have set aggressive carbon neutrality targets which will subsequently impact the automotive supply chain. In 2020, Kautex began to determine its carbon footprint and has committed to achieving an 80% reduction in Scope 1 and 2 emissions and a 30% reduction in Scope 3 emissions by 2030. In this presentation, you will learn about its sustainable road map, the importance of developing a sustainable organizational mindset, key activities to identify the CO₂ life-cycle of products, strategic decision making in carbon neutral design and procurement, and the differentiators of the supply chain.

2:20 p.m. Sustainable Vehicle Overheads: Recycled Core PU Foam in Headliner Systems

Peter Barna, Technical Director

Grupo Antolin

As part of its strategy to make a positive contribution to society and reduce its carbon footprint, Grupo Antolin has developed processes to recycle interior trim parts made from thermoplastic and thermoset materials. The first headliner on the market using a Wet PU process that involves materials made from different residues such as urban and ocean waste, post-consumer plastic waste, and end-of-life tires will be discussed.

2:40 p.m. Sustainable Interior Surface Solutions

Ryan Bailey, Head of Tech Center, Surface Solutions

Continental

Implementation of a holistic approach in the development of future decorative surface materials leads to sustainable products. Based on the positive outcome of life cycle analysis simulations, new solutions are being realized. Verification of the product carbon footprint (PFC) data is done with the parameters gathered along the industrialization process. The overall approach leads to a continuous improvement of the PCF and creates sustainable surface solutions for interiors.

3:00 p.m. Networking Break

3:30 p.m. KEYNOTE PRESENTATION

Back to the Roots: Using the Circular Economy to Reach Carbon Neutral Vehicles

Dr. Alper Kiziltas, Sustainable and Emerging Materials Technical Expert

Ford Motor Company

In this overview Ford Motor company will provide insight on trends and technologies driving the automotive industry into a new era. This includes a discussion on using recycled materials and natural fiber-filled composites, upgrading biomass for automotive applications, and leveraging nano reinforced PU foams and composites.

Circularity in Product Design

4:00 p.m. Automotive Trends, Material Solutions and Industrialization Concepts to Support the Transition to a Circular Economy

Volker Plehn, Senior Manager, Smart Panels/Lighting and Matthew Marks, Sr. Sustainability Specialist SABIC

Activities leading to carbon neutrality, sustainable and circular concepts/products, as well as design trends concerning vehicle electrification and autonomous driving will be presented.

4:20 p.m. A Sustainable Solution for the Automotive Industry

Desiree Maurer and Robert Kaminsky, Business Development Engineers

Arkema

Rilsan® PA11 material has been used for decades in automotive applications and recent innovations have opened new possibilities and applications. A discussion on how this material can help reduce the carbon footprint of manufactured parts, and the program initiated with Agiplast to recycle this material to go one step further towards a sustainable solution will be provided.

4:40 p.m. Innovations Enabling the Auto Industry's Sustainability Goals

Chris Mayville, Market Development Manager Kraton Polymers

Technologies enhancing sustainable manufacturing with increased throughput, use of less to no coatings, and lighter vehicles will be discussed. Product lines that enable circular design with use of more post-consumer and post-industrial resins to make automotive parts and reuse mixed recycling resin streams to divert plastic waste from landfills will be highlighted. A holistic approach to enhancing sustainability of the product life cycle in automotive manufacturing will be presented.

5:00 p.m. Sustainable Material Options for Automotive Net-Zero CO₂ Targets

Dr. Jeffrey Helms, Automotive Director

Celanese

For automakers to meet their 2030-2040 net-zero emissions goals across their operations and products, sustainable plastics with consistent and reliable performance are required. This presentation will review some those options along with select commercialized examples in current production vehicles.

5:20 p.m. A Call for Partnership: Reclaiming and Recycling High-Performance Materials

Dr. Steven Manning, Senior Global Director, Engineered Plastics

Ascend Performance Materials

High-performance polyamides have served a critical role in reducing the environmental and social footprint of automobiles. This presentation focuses on ongoing work to reduce the carbon footprint of polyamides by reclamation and recycling.

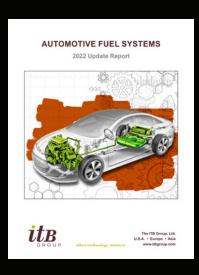
5:40 p.m. Closing Remarks and Cocktail Reception

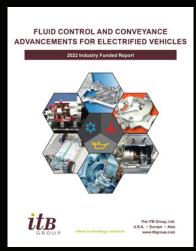
ITB Segments and Projects



Industry-Funded Technical Reports











Contact The ITB Group for more information



37525 Enterprise Court • Farmington Hills, Michigan 48331, U.S.A. Telephone: (1) 248-380-6310 • E-mail: email@itbgroup.com www.itbgroup.com U.S.A. • Europe • Asia