

NEW CABIN TECHNOLOGIES 2022

itB
GROUP
when technology matters

In-Person - October 6, 2022
The Sheraton Detroit Novi Hotel - Novi, Michigan USA



Final Program

Sponsors:



NAMICS

SDK

Exhibitors:

Covestro
Dexerials
Loomia
NAMICS Technologies
Nissha
SDK New Materials

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7:45 a.m. **Registration, Networking, and Continental Breakfast**

8:30 a.m. **Welcome and Opening Remarks**
Darren Nowak, Director, Research & Analysis
The ITB Group

Software and Technology

8:40 a.m. **In-cabin Sensor Fusion AI Enabled with Interior Scene Analysis and Modern Automotive-Grade AI Chips**
Founder and CEO
Eyeris

Eyeris presents the latest advancements and advantages of fusing a portfolio of vision AI neural networks using multiple cameras with complementary in-cabin sensor data in real-time.

9:10 a.m. **The Tendency of Smart Cockpits and PATEO's Roadmap**
Chief Technical Officer
PATEO Connect+

Centralization of E/E will bring a brand-new experience to car-users. With ultra-computing and graphical capability of automotive SoC, traditional auto parts suppliers need to transform and upgrade the development model when connecting with domain controllers. The boundary is blurring.

9:40 a.m. **Solutions for Next Generation of In-cabin User Experience**
Manager, Business Development and Innovation
Infineon

Infineon's solutions include MEMS Laser beam scanner targeting AR-HUD, automotive microphone-enabling new interior applications, and ultrasound sensors for robust touch buttons working with any type of materials. The opportunities, challenges and customers' problems that can be solved with these technologies will be discussed.

10:10 a.m. **Networking Break**

Optics, Appearance, and Function

10:55 a.m. **Functionalized Surface Materials**
Key Process Manager, Innovation
TMG Automotive

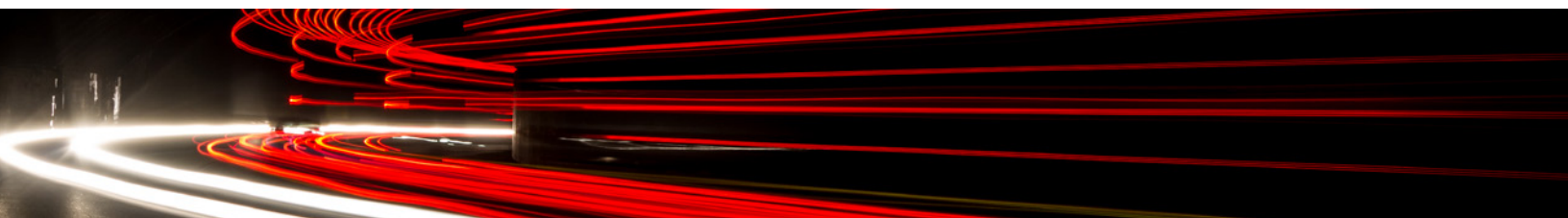
The presentation will cover smart, translucent, and soft surface materials. Over time TMG Automotive has worked to functionalize its surface materials, and heating and sensing are key features that have been explored. In parallel, the development of translucent foils allowing the creation of hide-until-lit effects and seamless smart surfaces have emerged. This presentation will cover developments in smart, translucent, and soft surface materials.

11:25 a.m. **Beyond Impact and Function: Polycarbonate Materials for Optical Effects and Styling**
Technical Marketing Manager, Americas
Covestro

Covestro presents the latest materials developments that use light as a critical ingredient when coupled with transparent dyes, opaque pigments and additives for light diffusion and reflection to create molded parts with unexpected depth, contrast, motion and surprise. Effects include: clear-until-lit, variations of black-until-lit, shadowy textures and patterns inside of a part, shimmering reflective colors and neutral density tints to spark the stylist's imagination.

11:55 a.m. **DECOPUR: Concept to Reality and Beyond**
Sales Manager
Kurz Transfer Products and
Sales Representative
Rühl Puromer

Advantages of the DECOPUR technology which combines PUR overflow onto traditional film decoration surfaces for unique appearance and functional benefits will be explained and examples will be highlighted. PU direct coating options providing interior and exterior-grade durability and self-healing capability, along with supply chain considerations will be addressed.



12:25 p.m. Lunch

Cabin Integrations

1:30 p.m. Functional Lighting and HMI Integration in Decoration and Trim
Electronics Business Development, and Lighting and HMI Business Development
Grupo Antolin

Lighting is not only about personalization and comfort, it also supports different use cases that help drivers and passengers: from welcome lights in combination to keyless entry systems to lights that alert in case of driver's fatigue or distraction, including lighting effects that dance to the sound of music. Grupo Antolin will present its cost-effective solutions in a new concept car that combines all the above-mentioned systems and more.

2:00 p.m. Styling the Interior of the Future with Freeform™ Technology
President
Magna Seating

Magna's FreeForm™ seat trim technology delivers superior comfort by providing a sculpted contour that supports the body and simplifies seat cleaning by eliminating crevices and trenches found in ordinary seats. Stylists can now create the seat design they envision without today's existing obstacles. Not only is this technology applied to seats but can be implemented in other areas of the interior including door panels and center consoles, creating a more stylistic and cohesive cabin.

2:30 p.m. Enriched User Experience and Sustainability through Integrated Interior Solutions
Marketing and Business Strategy Director, NAO Interiors and Engineering Director
Forvia

Exploring the market evolutions and Forvia's aligned and integrated vision for the cockpit of the future to ultimately enrich user experience through surface activation and sustainability.

3:00 p.m. Networking Break

Actuation and Structural Electronics

3:30 p.m. Sustainable and Differentiating Experiences for New Cabins using In-Mold Structural Electronics (IMSE)
Senior Mechanics Engineer
TactoTek

TactoTek will introduce new user interaction concepts using its In-Mold Structural Electronics (IMSE) technology to enable interior designers to develop fresh and innovative cabin concepts utilizing light and touch effectively in bringing a holistic user experience to consumers.

4:00 p.m. Low Temperature Sintering Nano Silver Paste
Engineer
NAMICS

With the spread of autonomous driving and LED headlights, snow can cause a dysfunction issue. NAMICS has developed an electrode silver paste that can be used in heaters for cameras, LiDAR, infrared sensors, and headlights to melt snow. This paste achieves low resistance by heat treatment at 120°C and can form flexible electrodes on flexible film.

4:30 p.m. HASEL Actuators for Automotive Interiors and Smart Surfaces
CEO
Artimus Robotics

HASEL actuation technology is a radically new way to create motion. Electrostatic forces are applied to a flexible polymer pouch and dielectric liquid in order to drive shape change in the compliant structure. As HASEL actuation technology is electrically driven and couples electrostatic and hydraulic forces, a wide variety of actuation modes are possible.

5:00 p.m. Closing Remarks



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



New 2023 Industry Funded Reports

- Trends in New Cabin Technology Integration
- Hydrogen Systems in Transport
- The Expanding Market for Extrudable Materials in Automobiles
- The Next Twelve Years: Impact of Automotive Paradigm Shifts on Plastics Use
- Evolving Plug-in and Hybrid Vehicle Thermal Management

Critical Technologies for Sustainable Vehicle Production 2023 Conference

Date: February 15 and 16, 2023
Location: Novi, Michigan, USA

Innovation in Sustainable Materials and Manufacturing Technologies	OEM Strategies to Achieve Carbon Neutrality - Impact on the Supply Chain
Achieving a Sustainable Strategy: Regulation and Legislation Impacts	Battery Packs: Implications on Weight and Recyclability
Case Studies: Automotive Sustainable Applications	LCA - Software and Calculating Net-Zero CO ₂

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