

Monday, April 14, 2025

12:00 PM Exhibition Set-up Starts

Tuesday, April 15, 2025

7:00 AM **Registration & Continental Breakfast Sponsored by SPE Automotive Division**

8:15 AM **Welcome Remarks:** Conference Chair, Dr. Sassan Tarahomi, Alterra Holdings

8:30 AM **Keynote Presenter: Launching of an All-New Electric Chevrolet Equinox; Matt Purdy, Executive Chief Engineer for Electric SUVs, GM**

9:00 AM **Keynote Presenter: Battery Royale-the Global Battery Supply Chain Battle; Brian Engle, Director Amphenol, President NAATBatt, SAE Fellow**

9:30 AM **BREAK Sponsored by SPE Automotive Division**

	Conference Hall - I	Conference Hall - II	Conference Hall - III
	BATTERY AND THERMAL MANAGEMENT SYSTEM Dhanendra Nagwanshi, SABIC Dr. Jeff Helms, Celanese Corp. Maggie Baumann, PPA/Pinfa NA	EVOLUTION OF INTERIORS Dr. Rose Ryntz, Ryntz & Associates Jeff Crist, Ford Motor Co. Jim Keller, Mankiewicz Coatings LLC	EVOLUTION OF EXTERIORS AND LIGHTING Tom Pickett, General Motors Hala Stevens, Magna Exteriors Inc. Michael Angelo Osero, SABIC
10:00 AM	The Feasibility of Thermoplastic Materials for EV Battery Enclosure Solutions Fred Chang, Koffi Dagnon Sabic	Smart Surface for Automotive Interior Felipe Melhado DVN	Body Exterior Trends for Electric Vehicles Tom Pickett GM
10:30 AM	Flame Retarded Compounds for Thermal Runaway Events in Electric Vehicles Christopher Rudzinskas LyondellBasell	Advances in Bio-renewable Foam for Automotive Interior Applications Robert Bondar BASF	Self-Adjusting Fastener Sleeve for Flush Exterior Door Handles Mary Reiber GM
11:00 AM	Low Warpage Nylon Grades for Battery Applications Hadwan Hadwan BASF	Advances in Interior Floor Mats Gail Miciuda Thermoflex	Innovative Product Designs and Processing with Elastomers Dr. Talat Karmo Vintech
11:30 AM	Development of New Test Method to Evaluate Performance of Battery Barrier Materials Alex Orzechoski UL	Automotive Interior Design Trends Laura Coatsworth Mankiewicz Coatings LLC	Innovative, Isocyanate-free, Adhesive Technology used in bonding/sealing Automotive EV Body Composite Panels to Aluminum Structures Atul Patel GM

12:00 PM **LUNCH: Sponsored by SPE Automotive Division**

	Conference Hall - I	Conference Hall - II	Conference Hall - III	Dennison Room
	BATTERY AND THERMAL MANAGEMENT SYSTEM	EVOLUTION OF INTERIORS	EVOLUTION OF EXTERIORS AND LIGHTING	SIMULATION & OPTIMIZATION David Kosse, Ascend Materials Steven Vanloozen, Lotte Thilo Stier, AKRO Compounds
1:30 PM	Xencor™ XTreme: Advancing Thermal Runaway Protection in Electric Vehicle Battery Design Gaurav Amarपुरi, PhD Syensqo	FlexAir Missy Brudzynsky Lear	Functional Exterior Coating Materials Matt Orlando Mitsubishi Chemical Corporation	Lightweight Optimized Composite Battery Cover, Design for EVs: Anisotropic Simulation with Manufacturing Variability Gourab Ghosh Hexagon Design and Engineering, Moldex3D North America, Inc.
2:00 PM	Durable, Light and Sustainable Polyurethane Composite Solutions in Automotive Battery Applications Diane Langer Huntsman Polyurethanes	Evolution of Interiors with Functional Integration Karen Guzman Covestro	Exterior Lighting: New Possibilities on EAV Michael Angelo Osero SABIC	Considering the Local Anisotropy in the Simulation Process Chain for Short and Long Fiber Reinforced Thermoplastics – Material Characterization Harish Pothukuchi, Martin Schwab 4a Engineering GmbH, Austria
2:30 PM	High Voltage Battery Busbar Insulation Cover in Intumescent Fire-retardant Thermoplastics Bhaskara Boddakayala Ford Motor Company	Enhancing Heads Up Display Performance with Ultra Low Birefringent Polymer AZP Yutaka Tarda Asahi Kasei	Cadillac Celestiq Integrated Light Guide Outer Lens Trevor Thompson GM	Simulation-Based Optimization of Battery Covers for EV's Alex Baker Moldex 3D
3:00 PM	Powering the Future of E-Mobility: Halogen-Free Flame Retardants and Sustainable Additive Solutions for Electrical Vehicles Sebastian Harms Budenheim	Translucent Materials for Interactive and Sustainable Vehicle Interiors Todd Starke, Mark Allen Dow Chemical	Envalior Innovative Solutions in Automotive Lighting Dan Knapp Envalior	Advanced Modeling of Battery Cells and Packs for EVs: Enhancing Performance and Thermal Management through Microstructural and Electrochemical Simulations Dustin Souza Hexagon

3:30 PM **BREAK: Sponsored by SPE Automotive Division**

	Conference Hall - I	Conference Hall - II	Conference Hall - III
	BATTERY AND THERMAL MANAGEMENT SYSTEM Dhanendra Nagwanshi, SABIC Dr. Jeff Helms, Celanese Corp. Maggie Baumann, PPA/Pinfa NA	DRIVER ASSISTANCE & SAFETY SYSTEMS Dr. Jacob Dickinson, Celanese Christian Sodeikat, Nexeo Plastics Dr. Nadeem Bokhari, Sumika Polymers, NA	EVOLUTION OF EXTERIORS AND LIGHTING Tom Pickett, General Motors Hala Stevens, Magna Exteriors Inc. Michael Angelo Osero, SABIC
4:00 PM	RTV for Battery Enclosure in Electric Vehicles Tom Pickett GM	Market Trends Update for ADAS and Automated Driving Vehicles Andy Whydell Automotive Safety Council	Plexiglas PMMA for Long Light Pipes to Support New Sustainable Design Trends Puneet Chandra Trinseo
4:30 PM	Regulation, Technology, Market Trends Shaping the EV Market Mika Takahashi IDTechEx	Innovative Solutions for Lightweighting Using Engineering Glass Fibre Reinforced Polypropylene in Automotive Industry for Seatbelt Applications Nicholas Schlutig Sumika Polymer Compounds EUROPE	EAV Front Light Bars- The Emergence of a New Exterior Lighting Application and Associated Performance Attributes Brian Carr, Chris Spain Roehm
5:00 PM	Advanced Battery Coatings for EV Safety & Performance Paul Hahler Mankiewicz Coatings	Autonomy and In-Cabin Sensing James Edmondson IDTechEx	Anti-reflective, anti-fingerprint PFAS free "Invisiprint" Coating Deckard Sorensen Loctite/Henkel
5:30 PM	Maximize Performance, Minimize Cost, The STM Advantage for Battery Enclosures Ricardo Mercado BASF	Virgin-like Post-Consumer Recycled (PCR) materials for EV and ADAS applications Dr. Julian Heinisch LG Chem	Dodge Charger Daytona EV Jack Block Chris Korson BASF

6:00 PM- 8:00 PM **Reception: Sponsored by SPE Automotive Division**

Wednesday, April 16, 2025

- 7:00 AM **Registration & Continental Breakfast Sponsored by SPE Automotive Division**
- 8:00 AM **Welcome Remarks:** Conference Chair, Dr. Sassan Tarahomi, Alterra Holdings
- 8:15 AM **Keynote Presenter: Machine Learning and AI in Automotive World, Danil Prokhorov, Director, Toyota R&D North America**
- 8:45 AM **Keynote Presenter: Shaping Tomorrow: Navigating the Future of Sustainability through Policy, Trends, and Global Collaboration, Mary Wroten, Executive Director, Ford Environmental Quality Office & ESG**
- 9:15 AM **Awards & Student Poster Competition:** Dr. Sassan Tarahomi, Alterra Holdings
- 9:30 AM **BREAK: Sponsored by SPE Automotive Division**

	Conference Hall - I	Conference Hall - II	Conference Hall - III
	ELECTRIFIED POWERTRAIN & POWER DISTRIBUTION Dr. Jeff Helms, Celanese Corp. Dr. Monoj Ghosh, Eaton Corp. Dr. Javed Mapkar, Daikin America, Inc.	MATERIAL INNOVATIONS Harsh Modi, Tesla Sunit Shah, LyondellBasell Sarah O’Keeffe, Dow	SUSTAINABILITY AND CARBON NEUTRALITY Mark Lapain, Advanced Composites Dr. Prasad Soman, Amazon Drew Geda, Hyundai-Kia America
10:00 AM	Red Phosphorus Stabilization of Flame-Retarded PA66: Addressing Contact Corrosion Hadwan Hadwan BASF	Navigating the Flame Retardant Synergist for Low End ATO-Free Compounds Jakub Lison ICL Group	Emerging Global Sustainability Proposals Impacting Automotive Plastics Megan Shewey GM
10:30 AM	The Role of Plastics in Electrical Isolation of Battery Modules Matthew Pernot GM	Application of Innovative Polycarbonate Alloy Material in Automotive Alvin Li Kingfa USA	Exterior Cladding with Living Hinge in PCR TPO Alex Anderson Rivian Automotive
11:00 AM	Advancements in Plastic Film Slot Liner Materials for High Voltage Systems with Moderately High Thermal Demands (200°C) Alyssa Arend Syensqo	Vinyl Materials Make Autonomous Driving Safer Daniel Shan Kingfa USA	3D Printing in Series Production, from Raw Material to Tier 1 Dr. Michael Reck, David Kramer Akro Plastics, AFT Automotive
11:30 AM	Material solutions for miniaturization and metal-plastic replacement in power electronics and e-motors Hiroshi Sato Celanese	Leverage Materials Science for Nylon Modification Dr. Jong-Young Lee, David Zhang, Shouren Ge, Xian Jiang Dow	Adding Value through Sustainable Materials: Strategic Implementation of Eco-friendly Technologies for Automotive Interiors Isabel Newton Hyundai Group

12:00 PM **LUNCH: Sponsored by SPE Automotive Division**

	Conference Hall - I	Conference Hall - II	Conference Hall - III
	ELECTRIFIED POWERTRAIN & POWER DISTRIBUTION	MATERIAL INNOVATIONS	SUSTAINABILITY AND CARBON NEUTRALITY
1:30 PM	Understanding how to select the right flame-retardant levels and products for Battery Disconnect Units Kai Becker Ascend	Innovative Flame-Retardant Technologies for the Evolving Automotive and Electric Vehicle Markets Sharon Ma, Sean Bernhardt, Kyle Nimon Avient Corporation	Advanced Eco-Friendly Coatings for Vegan Leather in the Automotive Industry Vijay Mohakar University of Georgia
2:00 PM	Thermal Management of Future Battery Electrical Vehicle- THERMOFIL FR Range Material Best in Class Solutions Nicholas Schlutig Sumika Polymer Compounds EUROPE	Innovative Low Gloss Engineered Polyolefins for vehicle Interiors Wesley Pasikowski, John Walling LyondellBasell Advanced Polymer Solution	Sustainable Polymeric Composite for Automotives: Influence of Biochar on Thermomechanical, Microstructural, and Viscoelastic Properties Mohammad Khusairy Bin Bakri Washington State University
2:30 PM	PEEK Applications & Benefits for Use in EVs Phil Hagerty Victrex	New Silicone Technologies to Improve Sealing and Protection of Plastic Components Michael Wang and Miranda Luevano Dow	Sustainability with New Bio-Based Polyamides Bernd Henkelmann Radici Group
3:00 PM	Development of Plastic EMI Shielding Solution for xEV Electrified Parts by Conductive Painting Albert (Inki) Min LG Chem	New HAR Mineral Solution for Automotive Applications Maz Bolourchi Imerys	Low Cost Renewable BASF PA6 copolymer Ultramid Flex for BEV Thermal Cooling Tubes Mo Meysami BASF

3:30 PM **BREAK: Sponsored by SPE Automotive Division**

	Conference Hall - I	Conference Hall - II	Conference Hall – III
	NOISE AND VIBRATION Dr. Xian Jiang, Dow Joel Pierce, Borealis Dr. Rodrigo Orozco, Celanese	MANUFACTURING ENABLING TECHNOLOGIES David Kosse, Ascend Materials Steven Vanloozen, Lotte Advanced Materials Thilo Stier, AKRO Compounds	SUSTAINABILITY AND CARBON NEUTRALITY
4:00 PM	Fundamentals of Acoustic Materials Andrea Frey GM	How Large Format Additive Manufacturing (LFAM) can be Used in EV Production and Prototyping Dan Rozzleman Krauss Maffei	PFAS Free Flame Retardant Plastic Solution Christopher Sullivan LG Chem
4:30 PM	Advancement of Thermoplastic Materials in Automotive NVH Application Chris Korson BASF	Enhancing EV Battery Enclosures and Beyond with Helicoid™ Technology Dana Lowell Helicoid Technology	Structural PA66 Foaming for Weight & Cost Efficiency TBD BASF
5:00 PM	Replace Natural Rubber with TPE in Antivibration and Suspension Systems Dr. Rodrigo Orozco Celanese	MPDBond Technology For Cost-Effective Hybrid Parts for the Next Generation of EV's Alexander Heitbrink & Thilo Stier Erwin Quarder & Akro Plastics	Sustainability Analysis of Basalt Fiber Reinforced Polyamide Composite with Hemp Hurd Biochar Filler for Automotive Applications Avishek Chanda Washington State University
5:30 PM	Conference Ends		