

Sunday, April 7, 2024

Revision: 13
Date: Feb 22, 2024

12:00 PM Exhibition Set-up Starts

Monday, April 8, 2024

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 **Technical Program Highlights:** Dr. Norm Kakarala / Dr. Suresh Shah

8:45 AM **Keynote Presenter:** **Electrified Corvette E-Ray; Tadge Juechter, Executive Chief Engineer Global Corvette, GM**

9:15 AM **Sponsors Remarks**

9:30 AM **Keynote Speaker:** **Lithium Ion Battery and Battery Cooling; John Warner, CEO, American Battery Solutions**

10:00 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	MANUFACTURING ENABLING TECHNOLOGIES David Kosse, Ascend Materials. Steve Vanloozen, Lotte Advanced Materials	EVOLUTION OF EXTERIORS AND LIGHTING Tom Pickett, General Motors Volker Plehn, SABIC Mark Lapain, Advanced Composites
10:30 AM	Polymeric Material Requirements for Batteries Used in Electric Vehicles Ken Vessey UL	A Composite Sandwich Structure Study for EV Battery Cover Application Adam Halsband Forward Engineering	Discussion: Key Challenges in Exterior & Lighting Tom Pickett, General Motors Volker Plehn, SABIC Mark Lapain, Advanced Composites
11:00 AM	Innovative Raw Materials Addressing Thermal Management and Thermal Runaway Dr. Reiner Sauerwein Nabaltec AG	Additive Manufacturing as an Alternative for Small Series Daniel Baek Akro Plastics GMBH	Revolutionizing Automotive Aesthetics: Evolving Functions Enhance Design Freedom Michael Angelo Osero SABIC
11:30 AM	Trends and Novel Solutions for Efficient EV Glycol Thermal Management Dr. Brian J. Cardwell Cooper Standard	Flame Retardant Engineering Compounds for Electric Vehicles Marc Ollig Akro Plastics GMBH	Integrated Tailgate Storage Compartment Carlos Prado, Tanner Ivey, Mary Reiber GM

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

	Conference Hall - I	Conference Hall - II	Conference Hall - III
	BATTERY AND THERMAL MANAGEMENT SYSTEM	MANUFACTURING ENABLING TECHNOLOGIES	EVOLUTION OF EXTERIORS AND LIGHTING
1:30 PM	Thermoplastic Solutions for Battery Module Nick Compton GM	Revolutionizing Battery Enclosures in Electric Vehicles Through Polyurethane Systems and Advanced Manufacturing Technologies Ricardo Mercado BASF	Evolving Rear Access Solutions – Lighter and Cleaner Daniel Lee Magna Exteriors
2:00 PM	Solutions for Thermal RunAway Dinesh Minjurulimana SABIC	Optimizing EV Structural Designs with Manufacturing Process Simulations Aniko Villanyi Moldex-3D	Trends in Automotive Exterior Lighting Innovations Tom Pickett GM
2:30 PM	Bus Bar Protection Charles Hua GM	PUR Overmolding of Exterior and Interior Parts for Class A Out of Mold Production Dan Rozelman Krauss Maffei	Uniformly Lit Animated Tail Lamps Steve Ganado Magna Lighting
3:00 PM	Electrification Outside Automotive James Edmondson IDTECHex	Lightweight Techniques for EV DC-DC Converter Kevin Pack LG Chemicals	Advancement in Translucent TPOs Enabling Innovative Lighting Design Dan Zhang LyondellBasell

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	MATERIAL INNOVATIONS Mike Shoemaker, Borealis Rick Luxgrant, Stellantis Sunit Shah, LyondellBasell	EVOLUTION OF EXTERIORS AND LIGHTING Tom Pickett, General Motors Volker Plehn, SABIC Mark Lapain, Advanced Composites
4:00 PM	Evolving Thermal Management and Fire Protection in EV Batteries James Edmondson IDTECHex	Material Trends and Innovation in 2024 Dr. Sassan Tarahomi Alterra Holdings	Environmental Stewardship through Implementation of Thermoset Recycling in Automotive Lighting Scott Adaska Valeo Craig Carder Lyondellbasell
4:30 PM	FR BOPET Material for Electronics and Battery Packs Jan Lariviere Celanese	Halogen Free Flame Retardant Polypropylenes for Electric Vehicle Applications Mark Evans Borealis	Coating Systems for Lighting Adam Keeling Momentive
5:00 PM	Thermal Packing for EV's Anurodh Tripathi Parker Hannifin	Flame Retardant Choices for Automotive Compounds in Changing Regulatory Landscape Jakub Lison ICL Industries	Advanced Acrylic Hardcoats for Automotive Lighting and ADAS Applications Matt Orlando (TBD) Mitsubishi
5:30 PM	Composite, Foam Filled Battery Boxes—A Completely Automated Solution. Dan Rozelman Krauss-Maffei	Innovative Materials for Lightweight EV Battery Enclosure Keith Kauffmann Envalor	Electrical Architecture, the New Challenge of Automotive Lighting Paul Henri Matha DVN

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

Tuesday, April 9, 2024

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 Speaker: Aligning EV Material Trends with Ford's Sustainability Roadmap; Dr. Ellen Lee, Technology Lead, Ford Motor Company**

9:00 AM **Awards & Student Poster Competition:** Dr. Sassan Tarahomi, Alterra Holdings & Chuck Jarret, The Materials Group

9:30 AM **Keynote Speaker: Benchmarking Recent Vehicle Launches; Manojdeep Jasrotia, VP of Sales, Caresoft**

10:00 AM **BREAK: Sponsored by SPE Automotive Division**

10:30 AM **Panel Discussion on Thermal Runaway – Detection, Containment and Mitigation**

Panelist from Automotive OEM, Tiers, Testing and Regulatory agencies

(Moderated by Dhanendra Nagwanshi, SABIC; Dr. Jeff Helms, Celanese & Maggie Baumann, PPA/Pinfa NA)

12:00 PM **LUNCH: 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	MATERIAL INNOVATIONS Mike Shoemaker, Borealis Rick Luxgrant, Stellantis Sunit Shah, LyondellBasell	EVOLUTION OF INTERIORS Dr. Rose Ryntz, Ryntz & Associates Jeff Crist, Ford Motor Co. Jim Keller, Mankiewicz Coatings LLC
1:30 PM	Mitigating Battery Cell Failures – Managing Cell Venting Events Brian Engle Amphenol	Long Chain Co-Polyamides in Electric Vehicle Extruded Busbar Applications Mikel Petty Lyondellbasell	Current & Future Direction for Seating Materials, Design, and Construction Diane Murtonen Ford Motor Company
2:00 PM	Battery Pack Sealing and Protection Brian Engle Amphenol	Bonding Polymeric Materials for Next Generation Automotive Mr. Art Cawley DuPont	Smart Integration Technologies Crossing Over Between Headliner Manufacturing, Lighting, and Electronics Peter Barna

		Grupo Antolin	
2:30 PM	An Overview of NHTSA's EV R&D Safety Activities Dr. Tony Thampan NHTSA	Polyphenylene Sulfide Compositions with a High Degree of Thermal Shock Resistance Dr. Prabuddha Bansal Celanese	PREPRO – Prepositioning Seam Support for Cut and Sew Covering Ulrich Weissert Forvia
3:00 PM	Innovative Solutions for Thermal Propagation in EV's Jack (Sangsoo) Lee LG Chem	Composites for Occupant and Battery Protection Chris Korson BASF	Peugeot Drives Car Interior Design Revolution with Stratasys Fadi Abro Stratasys

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

3:45 PM **Exhibit Hall - Student Poster Competition Awards:** Dr. Sassan Tarahomi, Alterra Holdings & Chuck Jarret, The Materials Group

	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	MATERIAL INNOVATIONS Mike Shoemaker, Borealis Rick Luxgrant, Stellantis Sunit Shah, LyondellBasell	EVOLUTION OF INTERIORS Dr. Rose Ryntz, Ryntz & Associates Jeff Crist, Ford Motor Co. Jim Keller, Mankiewicz Coatings LLC
4:00 PM	Regulatory Topics in EAV Fang Want SGS North America	Maximizing Potential: FR Plastics in EV Battery Systems Hadwan Hadwan BASF	UltraBlack Anti-Glare Coating Paul Hahler Mankiewicz Coatings, LLC
4:30 PM	Unique Flame Retardant PP Development and Commercialization Dr. Deen Chundury Plastics Compounding LLC	Expanding TPO Performance Using Novel Polyolefin Elastomers Mark Jablonka Dow Elastomers	Elevate Every Surface: RAYN Technology – Where Elegance Meets Expression Dustin Will RAYN Technology
5:00 PM	High Performance Polyamides for Demanding Battery and Thermal Management Systems Kieth Siopes EMS-CHEMIE	Thermoplastics Solutions for Electric Vehicles Dr. Fred Chang SABIC	Brominated Flame Retardants for Electric Vehicles – Safe, Sustainable, Versatile Dr. Nan Ding Albemarle
5:30 PM	Intumescent Thermoplastic Composites and Battery Pack Safety Jolon Page Pyrophobic Systems Ltd.	Long Chain Polyamides for Thermal Management and High Voltage Applications in BEV's Dr. Christian Kochanek Evonik	Flame Retarded Polyolefin Compound for Thermal Runaway Events in Electric Vehicles Christopher Rudzinskas Lyondellbasell

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

Wednesday, April 10, 2024

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

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

8:30 AM **Keynote Speaker: Battery; Tom Pilette, CEO, Zeta Energy**

9:00 AM **Keynote Speaker: Forecast on Electrification Outlook; Kevin Riddell, LMC GlobalData**

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

	Conference Hall - I	Conference Hall - II	Conference Hall – III
	ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS) Dr. Rodrigo Orozco, Celanese JP Wiese, Polyplastics	NOISE AND VIBRATION Dr. Xian Jiang, Dow Joel Pierce, Borealis	SUSTAINABILITY AND CARBON NEUTRALITY Dr. Alper Kiziltas, Amazon Dr. Prasad Soman, Amazon Drew Geda, Hyundai-Kia America Manoj Patnala, Rivian Automotive
10:00 AM	“Automotive Market ADAS and AV Trends and Emerging Requirements for Radar”. Dr. James Edmondson IDTechEx	Overview of Capabilities to Evaluate Sound and Vibration Performance with Focus on High Resilient and Viscoelastic Polyurethane Fomes Josh Hand Dow	Sustainable Products, Challenges and Opportunities Dr. Arash Kiani Alterra Holdings

10:30 AM	<p>Radar Transparency of Exterior Trim – Considerations on The Effect of Mechanical Recycle Content Carlos Pereira, Sebastian Flak SABIC</p>	<p>Use of TPE's in EV Motor Mounts to Reduce Noise and Vibration Jeff Smith Celanese</p>	<p>Ford Mach E One-Piece Frunk in PCR TPO Mahesh Bhattacharyya, Ford Motor Company Ben McComb, Advanced Composites</p>
11:00 AM	<p>High Performance Transparent Polyamides for IR LED's and Cameras in ADAS Greg Beach EMS-Grivory</p>	<p><i>Innovative Polyamide Solution to Overcome NVH Challenges for Powertrain Components</i> Jason Park Ascend</p>	<p>Highly Filled Short Banana Fiber – Polypropylene Composites: Fiber Concentration and Interfacial Adhesion Effects on Damping and Mechanical Performance Dr. Caitlyn Clarkson Manufacturing Science Division, Oak Ridge National Laboratory (Knoxville, TN)</p>
11:30 AM	<p>Beyond Burst Testing: Speeding Up Manufacturing for ADAS & ECUs with New Materials JP Wiese PolyPlastics</p>	<p>A Composite Sandwich Structure Study for EV Battery Cover Application Fred Chang, Koffi Dagnon SABIC</p>	<p>Kingfa Sustainable Products Alvin Li Kingfa</p>
12:00 PM	<p>Rapid Prototyping with 3D Printed Injection Molding Inserts David Constant BASF</p>	<p>Changes Of Plastics Used In BEVs Compared To ICVs & Why Dr. Ashok Adur Everest International Consulting (LLC)</p>	<p>Sustainable Material Solutions with Bio-Based PA56 Dr. Julian Heinisch LG Chem</p>

12:30 PM **Conference Ends**