Sunday, April 16, 2023

12:00 PM Exhibition Set-up Starts

Monday, April 17, 2023

7:00 AM Registration & Continental Breakfast Sponsored by SPE

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: Jamie Brewer, GM Executive Chief Engineer Electric SUVs, GM's EV/AV Strategy and Innovation

Revision: 6

Date: Feb 20, 2023

9:15 AM Platinum Sponsor Remarks (SABIC & Celanese)

9:30 AM Keynote Speaker: Dean Stevenson, Rivian Senior Director of Interiors, Systematizing Sustainability

10:00 AM

BREAK Sponsored by SPE

Conference Hall - I		Co	onference Hall - II	Conference Hall - III		
	BATTERY AND THE MANAGEMENT S\ Dhanendra Nagwansh Dr. Jeff Helms, Celane Maggie Baumann, PPA	/STEM ni, SABIC se Corp.	MANUFACTURING ENA TECHNOLOGIES David Kosse, Ascend Ma Steve Vanloozen, Lotte Ad Materials	terials.	SUSTAINABILITY AND NEUTRALITY Dr. Rohit Srivastava, A Chuck Jarrett, The Mater Drew Geda, Hyundai-Kia	mazon ials Group
10:30 AM	Fire Protection Materia Technology, Trends, an Dr. James Edmond IDTechEx	d Markets	Innovative Hybrid Molding Dan Rozelman Kraus Maffei	g in Color	Carbon Footprints: The N in Evolving the Plastics Su Joseph Chang ICIS Chemicals	pply Chain
11:00 AM	Battery Enclosure Materials Screening tests Torch and Grit (TaG) and Battery Enclosure Material Screening (BEMS) Ken Vessey		HR Resistant PK for Cooling Thilo Stier Akro Compounds		Recyclability of Polyprop Polyamide Composites w fibers Sandeep Tamrak Ford Motor Comp	vith basalt
11:30 AM	The physics of Cell V Failures: Beyond UL259 Need for Venting Man Brian Engle Amphenol	6 and the	Welding of FRTP for Challe Applications Adam Halsband Forward Engineerin		LG Chem Chemical Recycl of Polycarbonat BK Jeon LG Chem	-

12:00 PM LUNCH: Sponsored by SABIC

	Conference Hall - I	Conference Hall - II	Conference Hall - III
	BATTERY AND THERMAL MANAGEMENT SYSTEM	MANUFACTURING ENABLING TECHNOLOGIES	SUSTAINABILITY AND CARBON NEUTRALITY
1:30 PM	Advanced insulation for high voltage electric motor winding Dr. Monoj Ghosh Eaton Corporation	Compounding with Al Saeed Arabi Alterra Plastics	Reclaimed Carbon Fiber Based Sustainable Solutions for Lightweight Electric Vehicle Structures
2:00 PM	Role of Thermoplastics in Accelerating EV Battery Pack Development Dave Sullivan SABIC	Optimized Compounds and Blowing Agents for Technical Applications Thilo Stier Akro Compounds	Basalt Fiber Reinforced Polyamide-6 Composites with Hemp Hurd Biochar Filler for Automotive Applications Mohammad Mezbah UI Hoque
2:30 PM	Fire Safety and the Role of FR additives Maggie Baumann Performance Polymers and Additives and Pinfa North America	Toolless Fabrication of TPU with Additive Manufacturing Todd McInally BASF 3D Printing Solution NA	Composite Laminates Thermoformed from Wood-Based Prepregs for Interior Automotive Applications Avishek Chanda

The Growing Role of FR Additives
In EVs and AVs

Dr. Subra Narayan Clariant Advanced Composites Manufacturing Solutions for the AV and EV Industry Anand Bora

MOLDEX3D

PCR and Bio Based TPO/TPE for Electric Vehicles Dr. Arash Kiani

Alterra Holdings

3:30 PM BREAK: Sponsored by SPE

	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	ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS) Dr. Rodrigo Orozco, Celanese JP Wiese, SABIC	EVOLUTION OF EXTERIORS AND LIGHTING Tom Pickett, General Motors Volker Plehn, SABIC Mark Lapain, Advanced Composites	
4:00 PM	Large, Safe, Lightweight, and Multifunctional Thermoplastic Enclosures for EV Battery Packs. Fred Chang SABIC	SABIC Specialties' Solutions for Automotive Radar Sensors Dr. Jeff Xu SABIC	Material Solutions and Innovations for Exterior Panels Volker Plehn, Jeff Eshenauer SABIC	
4:30 PM	High Energy Density Battery Pack Concept Pat Granowicz Celanese	Material, Process and Design effects on Warpage in Camera Brackets Brandon Bouchard Celanese	Smart Rear & Front Panels by Purposefully Combined Plastic Processing Michael Fischer Engel	
5:00 PM	Polyamide Technologies Addressing Thermal Runaway Challenges in EV's Kai Becker Ascend Materials	Optimizing Radar Performance of Exterior Trim Carlos Pereira SABIC	Innovative Protective Coatings for Automotive Exterior Parts, Headlamps and Sensor Covers Dr. Andreas Haeuseler, Adam Keeling Momentive	

5:30 PM - 7:30 PM Reception: Cheese & Wine Sponsored by Celanese

Tuesday, April 18, 2023

7:00 AM Registration & Continental Breakfast Sponsored by SPE

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

8:30 AM Student Poster Competition: Chuck Jarret, The Materials Group

8:45 AM Keynote Speaker: Jeff Makarewicz, Group Vice President Technical Resources Toyota North

America R&D, Key Challenges, and Innovative Ideas to Navigate the Road to Future Mobility

9:15AM Platinum Sponsor Recognition (ENTEC)

9:30 AM Keynote Speaker: Alan Amici, President and CEO of Automotive Research (CAR), Assessment of

Inflation Reduction (IRA) Act Impacts on North American Electric Vehicle Supply Chain

10:00 AM BREAK: Sponsored by SPE

10:30 AM Panel Discussion on Thermal Runaway Protection

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

12:00 PM LUNCH: Sponsored by ENTEC

Conference Hall - I	Conference Hall - II	Conference Hall - III
---------------------	----------------------	-----------------------

	EVOLUTION OF INTERIORS Dr. Rose Ryntz Jim Keller, Mankiewicz Coatings LLC Jeff Crist, Ford Motor Co.	MATERIAL INNOVATIONS Mike Shoemaker, Borealis Paula Kruger, Ascend Materials Sunit Shah, LyondellBasell	EVOLUTION OF EXTERIORS AND LIGHTING Tom Pickett, General Motors Volker Plehn, SABIC Mark Lapain, Advanced Composites
1:30 PM	Dual Cast Process for Designing Circular and Monomaterial for Automotive Interiors Dr. Murali Reddy Cpk Interior Systems	Advanced Polymers for Electric and Autonomous Vehicles Applications Dr. Sassan Tarahomi Alterra Holdings	The Development of Integrated Multifunction EV Grille George Liu Minth
2:00 PM	Translucent Foam: Physical Properties and Level of Light Transmittance Kiego Shimura Sekisui Voltek	Novel Formulating Strategies for Flame Retardant Automotive Compounds Jakub Lison, ICL Industrial Products	Innovative Designs and Environmental Solutions to Meet Customer Demands Brian Guinn, Bob Frazier
2:30 PM	Advances in Automotive Interiors Dr. Pravin Sitaram The Haartz Corporation	Enabling Thermal Management with Innovations in CoolPoly® Thermally Conductive Plastics Dr. Prabuddha Bansal Celanese	Material Solutions that Enable Cost and Weight Savings in Automotive Exterior Lighting Dan Fuller Celanese
3:00 PM	Needs, Challenges and Film-based Solutions for Functional Decoparts Paul Rye Kurz	High Performance Polymers for Busbars in Power Electronics and e- Motors of Electric Vehicles Dr. Victoria E. Lee Solvay	Managing Heat using Thermally Conductive Polycarbonates to Achieve Weight, Space and Cost Jim Lorenzo Covestro

3:30 PM BREAK: Sponsored by SPE

	Conference Hall - I	Conference Hall - II	Conference Hall - III	
	EVOLUTION OF INTERIORS Dr. Rose Ryntz Jim Keller, Mankiewicz Coatings LLC Jeff Crist, Ford Motor Co.	MATERIAL INNOVATIONS Mike Shoemaker, Borealis Paula Kruger, Ascend Materials Sunit Shah, LyondellBasell	NOISE AND VIBRATION Andrea Frey, General Motors Dr. Xian Jiang, Dow	
4:00 PM	Throwing Your Shoes at Your Car Seat Aaron Delong HP	Next-gen Automotive Materials to Increase Safety and Reliability in the Electrical Powertrain Keith Kauffmann DSM	Automotive Acoustic Materials: Design for Acoustics & Applications in Electric Vehicles Jian Pan Auria Solutions	
4:30 PM	Automotive Acoustic Materials: design for sustainability Jian Pan Auria Solutions	Next Generation Polyurethane for Internal Battery Structure Chris Korson BASF	Absorption and Reflective Properties of a Crosslinked Foam Keigo Shimura Sekisui Voltek	
5:00 PM	Mineral-Based Solutions for EAV Plastics and Sustainability Saied Kochesfahani IMERYS Performance Minerals	Bonding to Dielectric Materials in Battery Pack Assembly Dr. Thomas Clark DuPont Adhesives	Anti-vibration polyamide solutions to overcome a multitude of NVH challenges Jason Park Ascend Materials	
5:30 PM	Electrification Driven Challenges for Automotive Plastics Bernd Henkelmann Radici Group	Conductive Molding Compounds in Fuel Cells and Battery Applications Mike Kiesel LyondellBasell	Design for Sustainable Solutions for Carbon Neutrality Karen Guzman Covestro	

6:00 PM- 8:00 PM Reception: Wine & Cheese Sponsored by SPE

Wednesday, April 19, 2023

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

8:30 AM Keynote Speaker: Dr. Kevin Swift, Senior Economist, ICIS Global Chemicals, Long-term Scenarios for Automotive Plastics

9:00 AM Recognition of Student Participation & Awards: Dr. Sassan Tarahomi, Alterra Holdings & Chuck Jarret,

The Materials Group

9:30 AM BREAK Sponsored by SPE

	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	SUSTAINABILITY AND CARBON NEUTRALITY Dr. Rohit Srivastava, Amazon; Chuck Jarrett, The Materials Group; Drew Geda, Hyundai-Kia America	NOISE AND VIBRATION Andrea Frey, General Motors; Dr. Xian Jiang, Dow	
10:00 AM	Trends and Disruptions for Battery Electric Vehicle (BEV) Thermal Management Systems Erik Rask ITW Automotive	Evaluation of Post-Consumer Recycled Polycarbonates for Electric Micromobility Vehicles Rashed Islam, Lyft	Review of dynamic material properties of common plastic materials Nick Oosting Roush Industries, Inc.	
10:30 AM	Temperature Management Using Thermally Conductive Electrically Insulative (TCEI) Plastic Materials Ray Szparagowski / Sai Sundararaman	High Performance Polyamides for Demanding Battery and Thermal Management Systems Doug Thornhill EMS-GRIVORY	Development of a Multi-Layer Acoustic Package Model for Automotive Acoustics Manoj Thota Dow	
11:00 AM	Thermally Conductive Thermoplastic Solutions for EV Battery Pack Somasekhar Bobba SABIC Specialties	Developments in CirculenRecover TPO Compounds with Recycled Feedstocks for Bumper and Exterior Trim Applications of Electric Vehicles Tomik Mouradian LyondellBasell	Frunk made of Ultra-Silent: Greater Driving Range for Electric Cars Michael Collinsworth Autoneum North America, Inc.	
11:30 AM	Zytel® ecool Multilayer Coolant Tube Technology Nate Dumm Celanese	Possibilities for Reducing the Carbon Footprint Thilo Stier Akro Compounds	How Composite e-Motor Mounts Affect EV NVH Performance Ricardo Mercado BASF	
12:00 PM	Santoprene® TPV in EV Cooling Hose Applications Paul Zwick Celanese	Advancement in Sensing and Visualization Semiconductor Solutions that Enhance Safety, Comfort and Sustainability Michael Godwin	2nd Generation NVH Zytel™ hushes the crowd with muscle Gabriel Knee Celanese	

12:30 PM Conference Ends