



# TPO® 2023 GLOBAL AUTOMOTIVE CONFERENCE

Troy, MI • October 1-4, 2023  
Powered by SPE Detroit Section

AUTO-TPO.COM

## ENGINEERED POLYOLEFINS FOR THE MOBILITY EVOLUTION



DETROIT MARRIOTT TROY HOTEL  
200 West Big Beaver Road | Troy, Michigan 48084 USA

# CONFERENCE SCHEDULE

### PLATINUM SPONSORS



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### EXHIBITORS



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## SPECIAL HIGHLIGHTS

### SUNDAY 10 | 1 COMPLIMENTARY TUTORIALS

PM 12:00	EXHIBITION SET-UP STARTS	
3:30	<b>SUNDAY TUTORIAL</b>	<b>History, Present and Future of Thermoplastic Vulcanizates (TPVs): A Structure Property Outlook</b> Dr. Nischay Kodihalli Shivaprakash, <i>Mitsubishi Chemical America – Performance Polymers Division</i>
4:15	<b>SUNDAY TUTORIAL</b>	<b>Innovations in Biocarbon Reinforced Polyolefin Sustainable Composites: A New Direction for Automotive Applications</b> Prof. Amar Kumar Mohanty, <i>University of Guelph</i>
5:00	EVENING RECEPTION SPONSORED BY <b>FORMOSA PLASTICS GROUP</b>	

### MONDAY 10 | 2 EXECUTIVE MARKETING FORUM

#### SPECIAL PRESENTATIONS BY OUR SPONSORS AND EXHIBITORS

NILES I AND NILES II ROOM, 2:00-4:30PM

	NILES I	NILES II
PM 2:00	ExxonMobil	HB Fuller
2:30	Alterra Holdings	Sirmax
3:00	BREAK	BREAK
3:30	PRET Advanced Materials	Carbon Polymer
4:00	Ecotek Lab	Mitsubishi

### TUESDAY 10 | 3 ECOTEK LAB STUDENT POSTER COMPETITION

AM 9:00	<b>STUDENT POSTERS ON DISPLAY</b> NILES I AND NILES II ROOM, 9:00AM-5:30PM
TO	9:00AM - 1:00PM ATTENDEE VOTING OPEN
	11:00AM - 12:00PM COMMITTEE JUDGING
PM 5:30	1:30PM - 1:35PM POSTER COMPETITION AWARDS, HALLS I-II-III

REv.4

## MONDAY 10 | 2

AM 7:30	<b>REGISTRATION / EXPO / NETWORKING / BREAKFAST</b>
8:15	<b>CHAIR WELCOME REMARKS / SPONSORSHIP MESSAGE</b>
8:30	<b>KEYNOTE</b> <b>Cockpit of the Future</b> Drew Winter, <i>Informa Tech Automotive Group, TU-Automotive, WardsAuto, Wards Intelligence</i>
9:15	<b>PANEL DISCUSSION</b> <b>Achieving Sustainable Thermoplastic Olefins Across the Value Chain, led by General Motors</b> Matt Vandyke, <i>General Motors – Senior Plastics Sustainable Materials Engineer</i> Panel Representatives from: <i>Inteva Products, LLC, Magna, Advanced Composites, Dow, LyondellBasell and ISCC</i> Moderated by: <i>Dr. Petya Yaneva, SABIC; Pravin Sitaram, Hartz Corp.</i>

### 10:45 NETWORKING BREAK SPONSORED BY **SPE DETROIT SECTION**

	HALL I	HALL II	HALL III
	<b>SUSTAINABILITY</b>	<b>INNOVATIONS IN INTERIORS</b>	<b>PERFORMANCE ADDITIVES &amp; COLORANTS</b>
	Mark Allen, <i>Dow Chemical</i> Dr. Murali Reddy, <i>CCC Plastics</i> Dr. Petya Yaneva, <i>SABIC</i>	Dr. Pravin Sitaram, <i>Haartz Corp.</i> Austin Wagenhals, <i>Ford Motor Co.</i> Hoa Pham, <i>Sonoco</i>	Dr. John Mara, <i>Amfine</i> Heejung Kwon, <i>Songwon</i>
11:00	<b>Challenges of Mechanically and Chemically Recycling Post-Consumer Polypropylene</b> David Nix, <i>Green Group Consulting</i>	<b>Plenary Talk - Industry Trends Driving More for Less</b> Ken Gassman, <i>Inteva Products, LLC</i>	<b>How Stabilization of Automotive TPO Compounds Changed from the Past and How it Could Evolve in the Future</b> Margot Clauss, <i>Klaus Keck, Rianlon</i>
11:30	<b>Life Cycle Assessment Based on Carbon Footprint of PVC Slush IP Skin vs TPE Injection Molded Soft Skin</b> Susan Kozora, <i>IAC</i>	<b>Wave Casting Technology for Automotive Interiors</b> Dr. Greg Farrar, <i>CpK</i>	<b>Ionic Additive to Improve Melt Strength in Recycled and Virgin PP Compounds</b> Brett Robb, <i>Resin Solutions</i>

### PM 12:00 NETWORKING LUNCH SPONSORED BY **SPE DETROIT SECTION**

1:30	<b>Upcycling of Waste Polyolefins and Recycled Ocean Plastic in Biocomposites Uses for a Circular Economy</b> Manjusri Misra, <i>University of Guelph</i>	<b>Challenges of Smart Surfaces in Automotive Trim</b> Jeremy Husic / David Whitehead, <i>Inteva Products, LLC</i>	<b>Developing Polyolefin Compounds with a Metallic Look</b> Kevin George, <i>GEON Performance Solutions</i>
2:00	<b>Post Industrial Recycling of Natural Fiber Reinforced Polypropylene (NFPP)</b> Thomas Sybrandy, <i>Inteva Products, LLC</i>	<b>Decarbonization in Automobiles - Material Options for Automotive Interior Applications</b> James Leo Mazurek / Akim Khalef, <i>FORVIA / MATERI'ACT</i>	<b>Superior Polypropylene via Use of Novel Nucleating Agent Technology</b> Yuhei Hattori, <i>Amfine</i>
2:30	<b>Sustainability Certification for TPO Supply Chains using ISCC PLUS</b> Peter Hawighorst, <i>ISCC</i>	<b>Next Generation Cold Temperature Ductile Interior TPOs</b> Robert Mimms, <i>Advanced Composites</i>	<b>Thermo-oxidative Stabilization of Mechanical Recycled Polypropylene Compounds</b> Heejung Kwon, <i>Songwon</i>

### 3:00 NETWORKING BREAK SPONSORED BY **SIRMAX**

3:30	<b>Product Designs to Facilitate Increased Recycled Content</b> Kevin Lyons, <i>Inteva Products, LLC</i>	<b>Antifungal Test Methods - What you Need to Know</b> Dr. Mai Ha, <i>Microban</i>
4:00	<b>Sustainable Polyolefin Composites for Today and Tomorrow</b> Kevin George, <i>Geon Performance Solutions</i>	<b>Recycled Content TPE for Automotive Interiors</b> Stephen Cranney, <i>Kraiburg</i>
4:30	<b>Sustainable Mechanically Recycled Polypropylene Compounds for Automotive Applications</b> Junhua Zhang, <i>SABIC</i>	<b>Incorporating Recycled Polypropylene in a Compound Intended for Automotive Interior Applications</b> Luca Gazzola, <i>Sirmax</i>

### MATERIALS DEVELOPMENT

	Quentin Boll, <i>LyondellBasell</i> Catherine Wilson, <i>Ford Motor Co.</i> Dr. Bin Sun, <i>SABIC</i>
3:30	<b>Next Generation SABIC Polypropylene Short Glass Fiber (PP-SGF) Composite</b> Tariq Ali Syed, <i>SABIC</i>
4:00	<b>New Mineral Solutions for Automotive Applications</b> Saied Kochesfahani, <i>Imerys</i>
4:30	<b>Structural Enhancement of Sustainable Materials</b> Christopher Oberste, <i>WEAV3D Inc</i>

### 5:00 EVENING RECEPTION SPONSORED BY **ADVANCED COMPOSITES**

## TUESDAY 10 | 3

AM 7:30	<b>REGISTRATION / EXPO / NETWORKING / BREAKFAST</b>		
8:15	<b>CHAIR WELCOME REMARKS / ECOTEK LAB STUDENT POSTER COMPETITION / SPONSORSHIP MESSAGE</b>		
8:30	<b>KEYNOTE</b>	<b>Systematizing Sustainability</b> Manoj Patnala, <i>Director for Interior Advanced Technologies, RIVIAN</i>	
9:15	<b>KEYNOTE</b>	<b>Reducing Carbon Footprint with Performance: The Role of Bio-Based Plastics in Mitigating Climate Change</b> Gustavo Lombardi, <i>Director of Business Development, Braskem</i>	
10:15	<b>NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION</b>		
	<b>HALL I</b>	<b>HALL II</b>	<b>HALL III</b>
	<b>EXTERIOR TRIM &amp; STRUCTURAL APPLICATIONS</b>	<b>POLYOLEFIN ELASTOMERS &amp; VULCANIZATES</b>	<b>MATERIALS DEVELOPMENT</b>
10:30	<p>Mark Pilette, <i>Magna (Retired)</i> Charlie Yang, <i>LyondellBasell</i> Kevin DeGrood, <i>Borealis</i></p> <p><b>Automotive Seating and Interiors Innovation using EPP</b> Steven R Sopher, <i>JSP</i></p>	<p>Dr. Bhavesh Shah, <i>Lion Elastomers</i> Dr. Dave Patel, <i>GuruTech Systems, Inc</i> Dr. Nadeem Bokhari, <i>Sumitomo Polymers</i></p> <p><b>Split-Proof Thermoplastic Vulcanizates (TPV) for Corner Molding Application</b> Dr. Nischay Kodihalli Shivaprakash, <i>Mitsubishi Chemical America</i></p>	<p>Quentin Boll, <i>LyondellBasell</i> Catherine Wilson, <i>Ford Motor Co.</i> Dr. Bin Sun, <i>SABIC</i></p> <p><b>How to Overcome Material Specifications in Talc Modified TPOs: Introducing New Product Line Neofill</b> Piergiovanni Ercoli Malacari, <i>IMI Fabi SpA</i></p>
11:00	<p><b>Transforming EPP for New Solutions</b> Chris Gregory, <i>Magna</i></p>	<p><b>Santoprene Thermoplastic Vulcanizates in EV Cooling Hose Applications</b> Paul Zwick, <i>Celanese</i></p>	<p><b>Newly Developed Innovative SEBS for Automotive – Interior Parts</b> Kazuhisa Takagi, <i>Asahi KASEI</i></p>
11:30	<p><b>Advancement in Translucent TPO Compounds for Innovative Automotive Lighting Design</b> Dan Zhang, <i>LyondellBasell</i></p>	<p><b>Self Lubricated Low Coefficient of Friction Thermoplastic Vulcanizates (TPV) for Corner Molding Application</b> Şerif Erdoğan, <i>Elastron</i></p>	<p><b>Novel Flame Retardant Polypropylene for Large EV Battery Part Production through Extrusion and Thermoforming</b> Dr. Petya Yaneva, <i>SABIC</i></p>
PM 12:00	<b>NETWORKING LUNCH SPONSORED BY SPE DETROIT SECTION</b>		
1:30	<b>ECOTEK LAB STUDENT POSTER COMPETITION WINNERS ANNOUNCED</b>		
1:35	<p><b>PANEL DISCUSSION</b></p> <p><b>Accelerating Sustainable Materials Development For a Greener Future, led by RIVIAN</b> MODERATOR: Manoj Patnala, <i>Director for Interior Advanced Technologies, RIVIAN</i> RIVIAN PANELISTS: Farshad Toomadj, <i>Lead CMF</i>; Lauren Palomba, <i>Staff Materials Engineer</i>; Mudit Shukla, <i>Rivian Core Engineer</i>; Yichi Zhang, <i>Sr. Staff Materials Engineer</i>; Venu Krishnardula, <i>Staff Materials Engineer</i> SUPPLIER PANELISTS: <i>Advanced Composites, The Materials Group</i></p>	<p><b>PROCESS ENABLING &amp; ADDITIVE TECHNOLOGIES</b></p> <p>Matt Sprouse, <i>Audia</i> Dr. Suresh Shah, <i>Dephi (Retired)</i> David Tucker, <i>New Wave Manf.</i></p>	
2:45	<b>NETWORKING BREAK SPONSORED BY M HOLLAND</b>		
3:00	<p><b>Trends in Design &amp; MFG. of Door Hardware Modules</b> Brian Staser, <i>Inteva Products, LLC</i></p>	<p><b>Innovative Elastomer Product Designs and Processing</b> Dr. Talat Karmo, <i>VINTECH INDUSTRIES</i></p>	<p><b>Compression Molded EV Battery Enclosures with Flame Retardant Glass Reinforced Polyolefin Compounds</b> Dr. Koffi Dagnon, <i>SABIC</i></p>
3:30	<p><b>Polyolefin Elastomer Choices in Designing Translucent TPO Compounds</b> Gaoxiang Wu, <i>Dow</i></p>	<p><b>Newly Developed TPV for Glass-Run Channel Corner Joint Applications</b> Takeshi Tominaga, <i>Sumika Polymers (Sumitomo)</i></p>	<p><b>Advanced Simulation Techniques for Predicting and Mitigating Stress Marks on High-Quality Product Surfaces</b> Alex Baker, <i>Moldex3D</i></p>
4:00	<p><b>Innovative Short Glass Fibre Reinforced Polypropylene Compounds for Liftgate an High Class Automotive Applications</b> Nicolas Schlutig, <i>Sumika Polymers (Sumitomo)</i></p>	<p><b>Reduce Carbon Footprint with Santoprene ECO-R TPVs</b> Dr. Prashant Bhadane, <i>Celanese</i></p>	<p><b>Implementation of Live, Nonfunctional Decorative Stitching as an Alternative to Cut-Sew-Wrap Technology for Automotive Applications</b> Ed Wenzel, <i>Inteva Products, LLC</i></p>
4:30	<p><b>High Stiffness Thermoplastic Olefins (TPOs) Enabling Light Weight Body Panel Applications</b> Jue (Jane) Lu, <i>LyondellBasell</i></p>	<p><b>Multi-featured Soft TPV; Extremely Low Permanent Set, High Fluidity, and Over-Moldability</b> Kaho Tazeo, <i>ENEOS Materials</i></p>	<p><b>Polymer Fusion Labeling: A New Labeling Technology that Answers Major Safety Concerns and Reduces Liability</b> Jason Brownell, <i>Polyfuze Graphics</i></p>
5:00	<p><b>Recent Glass Fibre Reinforced Polypropylene Compounds to Meet Carbon Footprint Target</b> Nicolas Schlutig, <i>Sumika Polymers (Sumitomo)</i></p>	<p><b>Sustainable Styrenic Block Copolymer Solutions to Enhance Multipolymer Compatibilization and Performance in Automotive Applications</b> Dr. David Truong, <i>Kraton Polymers</i></p>	<p><b>Digital Printing with Polypropylene in Automotive</b> Dmitriy Yurchenko, <i>GKN Additive, NA</i></p>
5:30	<b>NETWORKING RECEPTION SPONSORED BY SPE DETROIT SECTION</b>		

## WEDNESDAY 10 | 4

AM 7:30 REGISTRATION / EXPO / NETWORKING / BREAKFAST  
 8:15 CHAIR WELCOME REMARKS / CARESOFT GLOBAL FACILITY TOUR / SPONSORSHIP MESSAGE  
 8:30 **KEYNOTE** **The Value of Benchmarking to the Mobility Evolution**  
 Manojdeep Jasrotia, Vice President of North America Sales, Caresoft Global

9:15 NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION

	HALL I	HALL II	HALL III
	<b>SUSTAINABILITY</b>	<b>INNOVATIONS IN INTERIORS</b>	<b>PROCESS ENABLING &amp; ADDITIVE TECHNOLOGIES</b>
	Mark Allen, Dow Chemical Dr. Murali Reddy, CCC Plastics Dr. Petya Yaneva, SABIC	Dr. Pravin Sitaram, Haartz Austin Wagenhals, Ford Motor Co. Hoa Pham, Sonoco	Matt Sprouse, Audia Dr. Suresh Shah, Dephi (Retired) David Tucker, New Wave Manf.
9:30	<b>Driving Sustainable Materials for Mobility</b> Lisa Madenjian, Dow	<b>Enhancing Automotive Interiors with Recycled Content TPE's</b> Chris Engel, Avient	<b>Managing Melt Temperature in a Co-rotating Twin Screw Extruder</b> Charlie Martin, Leistritz Extrusion
10:00	<b>Addressing Net Zero Emission Goals Using Carbon Negative Bio-Based Polypropylene</b> Megan Krampe, Mitsui	<b>Recycled Materials and Non-Halogenated FR Technologies in Crosslinked Closed Cell Polyolefin Foams for Interior Applications</b> Turner Slaughtner, Sekisui VOLTEK	<b>Compounding Bio-based Polymers with AI 2.0</b> Sassan Tarahomi, Alterra Holdings

**PERFORMANCE ADDITIVES & COLORANTS**

Dr. John Mara, Amfine  
Heejung Kwon, Songwon

10:30	<b>Additive Technologies to Improve TPO Performance in Automotive Applications</b> Michail Dolgovskij, SI Group	<b>Predicting Mechanical Performance &amp; Processing of Core-back Foam Injection-molded Parts with Grained Surfaces</b> Anil Tiwari, SABIC	<b>Additives Engineering and Impact on Polyolefins Weather Stability and Anti-Dust Properties</b> Enrico Galfre, SABO
11:00	<b>Advanced Polymer Additive Technology to promotes Circular Economy</b> Koichi Yuno, Adeka	<b>H.B. Fuller's Thermonex® Clearbond Transparent Adhesive for Interior Trim</b> Brent Landis / Rick Snyder, H. B. Fuller	<b>How Various Combinations of Additives Affects the Performance of Antiscratch Additives in PP Automotive Formulation</b> Dr. Emile Homs, Cargill
11:30		<b>Understanding Scratch and Mar Improvements for Increased Consumer Satisfaction</b> Kevin George / Tra Goss, Geon Performance Solutions	

PM 12:00 **FACILITY TOUR** **DEPART FOR CARESOFT GLOBAL FACILITY TOUR (Optional)**  
 1:00 - 1:30PM NETWORKING RECEPTION (Food/Beverages provided)  
 1:30 - 3:30PM Talk to the Experts...Demonstrations and Tour  
**SIGN-UP ON NEXT PAGE**  
**CARESOFT GLOBAL**  
 31770 Enterprise Drive  
 Livonia, MI 48150  
[www.caresoftglobal.com](http://www.caresoftglobal.com)

3:30 CONFERENCE CONCLUDES REV. 4

# Caresoft<sup>®</sup> FACILITY TOUR

24<sup>TH</sup> ANNUAL  
**spe** TPO<sup>®</sup> 2023  
 GLOBAL AUTOMOTIVE  
 CONFERENCE  
 Troy, MI • October 1-4, 2023  
 Powered by SPE Detroit Section

**ENGINEERED POLYOLEFINS FOR THE MOBILITY EVOLUTION**

2023 SPE TPO GLOBAL AUTOMOTIVE CONFERENCE and CARESOFT GLOBAL Invites you to Attend a COMPLIMENTARY **FACILITY TOUR** and **RECEPTION**

**WEDNESDAY | OCTOBER 4**

12:00PM Depart for Caresoft Global

**CARESOFT GLOBAL**

31770 Enterprise Dr, Livonia, MI 48150  
[www.caresoftglobal.com](http://www.caresoftglobal.com)

**1:00 - 1:30 NETWORKING RECEPTION**

with Food/Beverages provided

**1:30 - 3:30 Talk to the Experts...**

Demonstrations and Tours

CARESOFT GLOBAL EXPERTS WILL FOCUS ON:

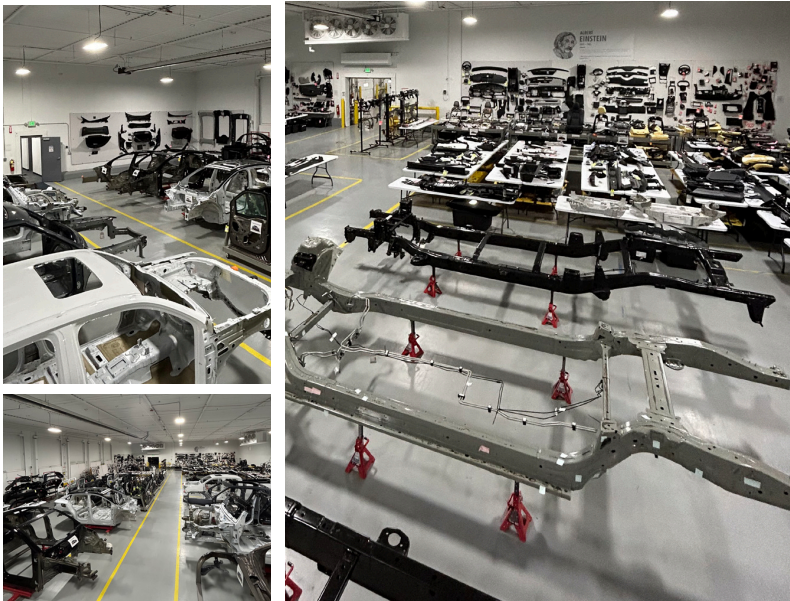
- ICE and EV vehicle construction comparisons, highlighting polymer applications
- How traditional applications for polyolefins have evolved in the pivot to electrification
- Future potentials for polymer solutions during the mobility evolution.
- Dedicated group tours focusing on polymer and EV components

**PLEASE SIGN UP IN ADVANCE TO ATTEND**



**12+ EVs BENCHMARKED AND PARTS ON DISPLAY**

GMC Hummer EV	Rivian R1T	Volkswagen ID4
MG MG4	Lucid Air	Great Wall Pao
Tesla Model Y	Toyota bZ4X	Renault Megane
Ford F-150 Lightning	Ford Mach-E	Tesla Model S Plaid



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