

FOR MORE INFO

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All Times Shown in EDT USA (UTC - 04:00)



TPO® 2023
GLOBAL AUTOMOTIVE
CONFERENCE

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

ENGINEERED POLYOLEFINS FOR THE
MOBILITY EVOLUTION

SPECIAL HIGHLIGHTS

SUNDAY 10 | 1 COMPLIMENTARY TUTORIALS

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

MONDAY 10 | 2 EXECUTIVE MARKETING FORUM

PM 2:00 TO 5:00	SPECIAL PRESENTATIONS BY OUR SPONSORS AND EXHIBITORS TOPICS AND SPEAKERS TO BE ANNOUNCED SOON NILES I AND NILES II ROOM, 2:00-5:00PM
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TUESDAY 10 | 3 ECOTEK LAB STUDENT POSTER COMPETITION

AM 9:00 TO PM 2:40	STUDENT POSTERS ON DISPLAY NILES I AND NILES II ROOM, 9:00AM-5:30PM 9:00AM - 1:00PM ATTENDEE VOTING OPEN 1:00-2:00PM COMMITTEE JUDGING 2:40PM POSTER COMPETITION AWARDS, HALLS I-II-III
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REv. 3



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MONDAY 10 | 2

AM 7:30

REGISTRATION / EXPO / NETWORKING / BREAKFAST

8:15

CHAIR WELCOME REMARKS / SPONSORSHIP MESSAGE

8:30

KEYNOTE

Cockpit of the Future

Drew Winter, *Informa Tech Automotive Group, TU-Automotive, WardsAuto, Wards Intelligence*

9:15

PANEL DISCUSSION

Achieving Sustainable Thermoplastic Olefins Across the Value Chain, led by General Motors

Matt Vandyke, *General Motors - Senior Plastics Sustainable Materials Engineer*

Panel Representatives from: *Inteva Products, Magna, Advanced Composites, Dow, LyondellBasell and ISCC*

Moderated by: *Dr. Petya Yaneva, SABIC; Pravin Sitaram, Hartz Corp.*

10:45

NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION

HALL I

SUSTAINABILITY

Mark Allen, *Dow Chemical*
Dr. Murali Reddy, *CCC Plastics*
Dr. Petya Yaneva, *SABIC*

11:00

Challenges of Mechanically and Chemically Recycling Post-Consumer Polypropylene
David Nix, *Green Group Consulting*

11:30

Life Cycle Assessment Based on Carbon Footprint of PVC Slush IP Skin vs TPE Injection Molded Soft Skin
Susan Kozora, *IAC*

HALL II

INNOVATIONS IN INTERIORS

Dr. Pravin Sitaram, *Hartz Corp.*
Austin Wagenhals, *Ford Motor Co.*
Hoa Pham, *Sonoco*

11:00

Plenary Talk - Industry Trends Driving More for Less
Ken Gassman, *Inteva Products*

11:30

Wave Casting Technology for Automotive Interiors
Dr. Greg Farrar, *CpK*

HALL III

PERFORMANCE ADDITIVES & COLORANTS

Dr. John Mara, *Amfine*
Heejung Kwon, *Songwon*

11:00

How Stabilization of Automotive TPO Compounds Changed from the Past and How it Could Evolve in the Future
Margot Clauss, Klaus Keck, *Rianlon*

11:30

Ionic Additive to Improve Melt Strength in Recycled and Virgin PP Compounds
Brett Robb, *Resin Solutions*

PM 12:00

NETWORKING LUNCH SPONSORED BY SPE DETROIT SECTION

1:30

Upcycling of Waste Polyolefins and Recycled Ocean Plastic in Biocomposites Uses for a Circular Economy
Manjusri Misra, *University of Guelph*

Challenges of Smart Surfaces in Automotive Trim
Jeremy Husic / David Whitehead, *Inteva Products*

Developing Polyolefin Compounds with a Metallic Look
Kevin George, *GEON Performance Solutions*

2:00

Post Industrial Recycling of Natural Fiber Reinforced Polypropylene (NFPP)
Thomas Sybrandy, *Inteva Products*

Decarbonization in Automobiles - Material Options for Automotive Interior Applications
James Leo Mazurek / Akim Khalef, *FORVIA / MATERI'ACT*

Superior Polypropylene via Use of Novel Nucleating Agent Technology
Yuhei Hattori, *Amfine*

2:30

Sustainability Certification for TPO Supply Chains using ISCC PLUS
Peter Hawighorst, *ISCC*

Next Generation Cold Temperature Ductile Interior TPOs
Robert Mimms, *Advanced Composites*

Thermo-oxidative Stabilization of Mechanically Recycled Polypropylene Compounds
Heejung Kwon, *Songwon*

3:00

NETWORKING BREAK SPONSORED BY SIRMAX

3:30

Product Designs to Facilitate Increased Recycled Content
Kevin Lyons, *Inteva Products*

Antifungal Test Methods - What you Need to Know
Dr. Mail Ha, *Microban*

4:00

Sustainable Polyolefin Composites for Today and Tomorrow
Kevin George, *Geon Performance Solutions*

Recycled Content TPE for Automotive Interiors
Stephen Cranney, *Kraiburg*

4:30

Sustainable Mechanically Recycled Polypropylene Compounds for Automotive Applications
Junhua Zhang, *SABIC*

Incorporating Recycled Polypropylene in a Compound Intended for Automotive Interior Applications
Luca Gazzola, *Sirmax*

MATERIALS DEVELOPMENT

Quentin Boll, *LyondellBasell*
Catherine Wilson, *Ford Motor Co.*
Dr. Bin Sun, *SABIC*

3:30

Next Generation SABIC Polypropylene Short Glass Fiber (PP-SGF) Composite
Tariq Ali Syed, *SABIC*

4:00

New Mineral Solutions for Automotive Applications
Saied Kochesfahani, *Imerys*

4:30

Structural Enhancement of Sustainable Materials
Christopher Oberste, *WEAV3D Inc*

5:00

EVENING RECEPTION SPONSORED BY ADVANCED COMPOSITES

REV. 3

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TUESDAY 10 | 3

AM 7:30 REGISTRATION / EXPO / NETWORKING / BREAKFAST
 8:15 CHAIR WELCOME REMARKS / ECOTEK LAB STUDENT POSTER COMPETITION / SPONSORSHIP MESSAGE
 8:30 **KEYNOTE** Systematizing Sustainability Manoj Patnala, Director for Interior Advanced Technologies, RIVIAN
 9:15 **KEYNOTE** Reducing Carbon Footprint with Performance: The Role of Bio-Based Plastics in Mitigating Climate Change
 Gustavo Lombardi, Director of Business Development, Braskem

NETWORKING BREAK SPONSORED BY **SPE DETROIT SECTION**

	HALL I	HALL II	HALL III
	EXTERIOR TRIM & STRUCTURAL APPLICATIONS	POLYOLEFIN ELASTOMERS & VULCANIZATES	MATERIALS DEVELOPMENT
	Mark Pilette, Magna (Retired) Charlie Yang, LyondellBasell Kevin DeGroot, Borealis	Dr. Bhavesh Shah, Lion Elastomers Dr. Dave Patel, GuruTech Systems, Inc Dr. Nadeem Bokhari, Sumitomo Polymers	Quentin Boll, LyondellBasell Catherine Wilson, Ford Motor Co. Dr. Bin Sun, SABIC
10:30	Automotive Seating and Interiors Innovation using EPP Steven R Sopher, JSP	Split-Proof Thermoplastic Vulcanizates (TPV) for Corner Molding Application Dr. Nischay Kodihalli Shivaprakash, Mitsubishi Chemical America	How to Overcome Material Specifications in Talc Modified TPOs: Introducing New Product Line Neofill Piergiovanni Ercoli Malacari, IMI Fabi SpA
11:00	Transforming EPP for New Solutions Chris Gregory, Magna	Santoprene Thermoplastic Vulcanizates in EV Cooling Hose Applications Paul Zwick, Celanese	Newly Developed Innovative SEBS for Automotive – Interior Parts Kazuhisa Takagi, Asahi KASEI
11:30	Advancement in Translucent TPO Compounds for Innovative Automotive Lighting Design Dan Zhang, LyondellBasell	Self Lubricated Low Coefficient of Friction Thermoplastic Vulcanizates (TPV) for Corner Molding Application Şerif Erdoğan, Elastron	Novel Flame Retardant Polypropylene for Large EV Battery Part Production through Extrusion and Thermoforming Dr. Petya Yaneva, SABIC

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

1:30 **PANEL DISCUSSION** Accelerating Sustainable Materials Development For a Greener Future, led by RIVIAN
 MODERATOR: Manoj Patnala, Director for Interior Advanced Technologies, RIVIAN
 RIVIAN PANELISTS: Farshad Toomadj, Lead CMF; Lauren Palomba, Staff Materials Engineer; Mudit Shukla, Rivian Core Engineer; Yichi Zhang, Sr. Staff Materials Engineer; Venu Krishnardula, Staff Materials Engineer
 SUPPLIER PANELISTS: Advanced Composites, The Materials Group

PROCESS ENABLING & ADDITIVE TECHNOLOGIES

Matt Sprouse, Audia
 Dr. Suresh Shah, Dephi (Retired)
 David Tucker, New Wave Manf.

2:40 ECOTEK LAB STUDENT POSTER COMPETITION WINNERS ANNOUNCED
 2:45 NETWORKING BREAK SPONSORED BY **M HOLLAND**

3:00	Trends in Design & MFG. of Door Hardware Modules Brian Staser, Inteva Products	Innovative Elastomer Product Designs and Processing Dr. Talat Karmo, VINTECH INDUSTRIES	Compression Molded EV Battery Enclosures with Flame Retardant Glass Reinforced Polyolefin Compounds Dr. Koffi Dagnon, SABIC
3:30	Polyolefin Elastomer Choices in Designing Translucent TPO Compounds Gaoxiang Wu, Dow	Newly Developed TPV for Glass-Run Channel Corner Joint Applications Takeshi Tominaga, Sumika Polymers (Sumitomo)	Advanced Simulation Techniques for Predicting and Mitigating Stress Marks on High-Quality Product Surfaces Alex Baker, Moldex3D
4:00	Innovative Short Glass Fibre Reinforced Polypropylene Compounds for Liftgate an High Class Automotive Applications Nicolas Schlutig, Sumika Polymers (Sumitomo)	Reduce Carbon Footprint with Santoprene ECO-R TPVs Dr. Prashant Bhadane, Celanese	Implementation of Live, Nonfunctional Decorative Stitching as an Alternative to Cut-Sew-Wrap Technology for Automotive Applications Ed Wenzel, Inteva Products
4:30	High Stiffness Thermoplastic Olefins (TPOs) Enabling Light Weight Body Panel Applications Jue (Jane) Lu, LyondellBasell	Multi-featured Soft TPV; Extremely Low Permanent Set, High Fluidity, and Over-Moldability Kaho Tazeo, ENEOS Materials	Polymer Fusion Labeling: A New Labeling Technology that Answers Major Safety Concerns and Reduces Liability Jason Brownell, Polyfuze Graphics
5:00	Recent Glass Fibre Reinforced Polypropylene Compounds to Meet Carbon Footprint Target Nicolas Schlutig, Sumika Polymers (Sumitomo)	Sustainable Styrenic Block Copolymer Solutions to Enhance Multipolymer Compatibilization and Performance in Automotive Applications Dr. David Truong, Kraton Polymers	Digital Printing with Polypropylene in Automotive Dmitriy Yurchenko, GKN Additive, NA

5:30 NETWORKING RECEPTION SPONSORED BY **SPE DETROIT SECTION**

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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

NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION

HALL I

SUSTAINABILITY

Mark Allen, *Dow Chemical*
Dr. Murali Reddy, *CCC Plastics*
Dr. Petya Yaneva, *SABIC*

9:30 **Driving Sustainable Materials for Mobility**
Lisa Madenjian, *Dow*

10:00 **Addressing Net Zero Emission Goals Using Carbon Negative Bio-Based Polypropylene**
Megan Krampe, *Mitsui*

HALL II

INNOVATIONS IN INTERIORS

Dr. Pravin Sitaram, *Haartz*
Austin Wagenhals, *Ford Motor Co.*
Hoa Pham, *Sonoco*

Enhancing Automotive Interiors with Recycled Content TPE's
Chris Engel, *Avient*

Recycled Materials and Non-Halogenated FR Technologies in Crosslinked Closed Cell Polyolefin Foams for Interior Applications
Turner Slaughter, *Sekisui VOLTEK*

HALL III

PROCESS ENABLING & ADDITIVE TECHNOLOGIES

Matt Sprouse, *Audio*
Dr. Suresh Shah, *Dephi (Retired)*
David Tucker, *New Wave Manf.*

Managing Melt Temperature in a Co-rotating Twin Screw Extruder
Charlie Martin, *Leistritz Extrusion*

Compounding Biobased Polymers with AI 2.0
Saeed Arabi, *Alterra Holdings*

PERFORMANCE ADDITIVES & COLORANTS

Dr. John Mara, *Amfine*
Heejung Kwon, *Songwon*

10:30 **Additive Technologies to Improve TPO Performance in Automotive Applications**
Michail Dolgovskij, *SI Group*

Predicting Mechanical Performance & Processing of Core-back Foam Injection-molded Parts with Grained Surfaces
Anil Tiwari, *SABIC*

Additives Engineering and Impact on Polyolefins Weather Stability and Anti-Dust Properties
Enrico Galfre, *SABO*

11:00 **Advanced Polymer Additive Technology to promotes Circular Economy**
Koichi Yuno, *Adeka*

H.B. Fuller's Thermonex® Clearbond Transparent Adhesive for Interior Trim
Brent Landis / Rick Snyder, *H. B. Fuller*

How Various Combinations of Additives Affects the Performance of Antiscratch Additives in PP Automotive Formulation
Dr. Emile Homsy, *Cargill*

11:30 **Understanding Scratch and Mar Improvements for Increased Consumer Satisfaction**
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

3:30 CONFERENCE CONCLUDES REv. 3

Caresoft[®] FACILITY TOUR



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

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

WEDNESDAY | OCTOBER 4

12:00PM Depart for Caresoft Global

CARESOFT GLOBAL

31770 Enterprise Dr, Livonia, MI 48150

www.caresoftglobal.com

1:00 - 1:30 NETWORKING RECEPTION

with Food/Beverages provided

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

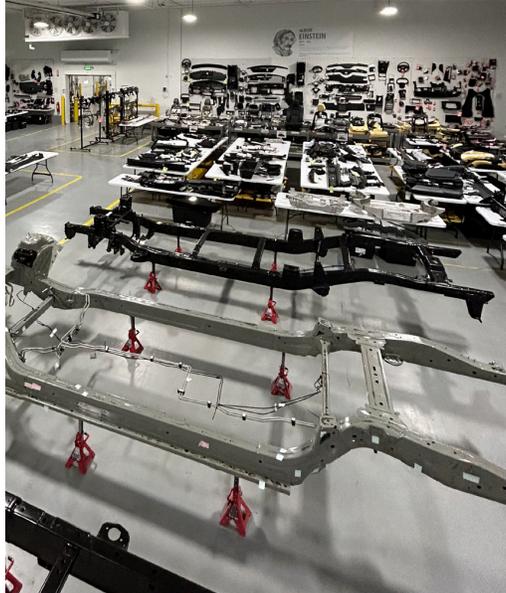
Demonstrations and Tours

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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