

# 2024 AGENDA



**TPO® 2024**  
**GLOBAL AUTOMOTIVE  
CONFERENCE**  
Troy, MI • Sept 30-Oct 3, 2024  
Powered by SPE Detroit Section

## SPECIAL HIGHLIGHTS

### MONDAY 9 | 30 SETUP / RECEPTION

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

6:30PM - 10:30PM

EXHIBITION SETUP

7:00PM - 11:00PM

EVENING RECEPTION SPONSORED BY **FORMOSA PLASTICS GROUP**

### TUESDAY 10 | 1 EXECUTIVE MARKETING FORUM

2:30PM - 5:30PM

**SPECIAL PRESENTATIONS BY OUR SPONSORS AND EXHIBITORS**  
NILES I AND NILES II ROOM

#### NILES I

2:30PM - 3:00PM

Mitsubishi Chemical Group  
Eric M. Hirzel

3:00PM - 3:30PM

BREAK

3:30PM - 4:00PM

Sumitomo Chemical Company  
Nadeem Bokhari

4:00PM - 4:30PM

LyondellBasell  
Ritch Koeth

4:30PM - 5:00PM

Alterra Holdings  
Sassan Tarahomi

5:00PM - 5:30PM

Highland Plastics  
Paula Balhorn

#### NILES II

Niche Polymer  
Edward Luibrand

BREAK

Carbon Polymer  
Jeff Fisher

Alok Masterbatches  
Amit Puri

Golcha Minerals LLC  
Swmeet Verma

Open

### WEDNESDAY 10 | 2 ECOTEK LAB STUDENT POSTER COMPETITION

9:00AM - 4:00PM

**STUDENT PARTICIPTION AND POSTER COMPETITION**

9:00AM - 11:00AM

STUDENT POSTERS DISPLAYED IN HALLWAYS

11:00AM - 12:00PM

COMMITTEE JUDGING IN NILES I & II

12:00PM - 4:00PM

STUDENT POSTERS DISPLAYED IN HALLWAYS

1:15PM - 1:30PM

POSTER COMPETITION AWARDS, HALLS I-II-III

# 2024 AGENDA

## TUESDAY 10 | 1

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AM 7:00	REGISTRATION / EXPO / NETWORKING / BREAKFAST		
8:15	CHAIR WELCOME REMARKS / SPONSORSHIP MESSAGE		
8:30	FOUNDERS PANEL	25th Anniversary Founders Round Table	
9:45	KEYNOTE	Automotive Sustainability Landscape and the Role of Materials in Ambition 2030 and Beyond Bob Flotkoetter, Director of Interior, Exterior and Seats Engineering, Nissan North America	
10:00	NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION		
	HALL I	HALL II	HALL III
	MATERIALS DEVELOPMENT	INNOVATIONS IN INTERIORS	SUSTAINABILITY
	Dr. Birat KC, Magna International Quentin Boll, LyondellBasell Dr. Bin Sun, SABIC	Dr. Pravin Sitaram, Haartz Corp. Hoa Pham, Sonoco Austin Wagenhals, Ford Motor Co.	Dr. Petya Yaneva, SABIC Mark Allen, Dow Chemical Dr. Murali Reddy, CCC Plastics
10:45	The Evolution of Thermoplastic Polyolefin (TPO) Impact Modification for Automotive Applications Mark Jablonka, Dow	Soft TPO (THERMOPLASTIC OLEFIN) Foam Bi-Laminate for Scoreless Applications Joshua Cram, Continental	Historical Use of Recycled Plastics in Automotive Applications- Myth vs Reality- Time to Change the Paradigm Susan Kozora, IAC Group
11:15	Proposal of Core Back Foamed Interior Achieved by High Flow SEBS Kazuhisa Takagi, Asahi Kasei	Design for Sustainability & Recycling on Interior Parts Ryan Case, Antolin	The Mass Balance Approach and ISCC PLUS for Thermoplastic Olefins: Transition to a Circular Economy Peter Hawighorst, ISCC
11:45	Reinforced Polypropylene for Speciality and Structural Applications Tariq Syed, SABIC	Making your Instrument Panel or Door Panel an All-Olefin Mono-Material Mark Helder, Haartz Corporation	Closing the Loop: Innovations in Durable Goods End-of-Life Management Kari Bliss, Hayden Latham, Padnos
PM 12:15	NETWORKING LUNCH SPONSORED BY SPE DETROIT SECTION		
1:30	KEYNOTE	Yanfeng Keynote Jeffrey Stout, Executive Director of Advanced Business Development, Yanfeng	
2:15	NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION		
	PROCESS ENABLING & ADDITIVE TECHNOLOGIES	EXTERIOR TRIM & STRUCTURAL APPLICATIONS	PERFORMANCE ADDITIVES & COLORANTS
	David Kosse, Ascend Performance Materials Dr. Suresh Shah, Delphi (Retired) Anand Bora, Moldex 3D	Mark Pilette, Magna (Retired) Charlie Yang, LyondellBasell Kevin DeGrood, Borealis	Heejung Kwon, Songwon Dr. John Mara, Amfine Dr. Raziye Mohammadi, Ford Motor Co
2:30	How to Predict Flow-Induced Surface Defects Alex Baker, Moldex 3D	MIC Metallic TPO for Exterior Applications Kevin DeGrood, Borealis	Polymer Additive Technologies Contributing to Value of Automobiles Daniel Turley, Amfine
3:00	Tailoring Rigidity in Powder Melt Extrusion 3D Printing of Recycled Polyolefins Jerry Miao, University of Wisconsin	Addressing Tiger Stripe Defects of TPO for Demanding MIC Applications Alberto Prieto, LyondellBasell	Long-Term Thermal Stabilization Strategies in Different PP Systems Heejung Kwon, Songwon
3:30	Next Chapter in AI Compounding Arash Kiani, Alterra	Warpage Optimization of Large and Welded Assemblies Erich Vorenkamp, SABIC	Nanoclays as FR Synergist Anthony Carignano, Elementis Global
4:00	NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION		
	POLYOLEFIN ELASTOMERS AND VULCANIZATES	INNOVATIONS IN INTERIORS	PERFORMANCE ADDITIVES & COLORANTS
	Dr. Bhavesh Shah, Lion Elastomers Dr. Dave Patel, GuruTech Systems, Inc Dr. Nadeem Bokhari, Sumika Polymers NA	Dr. Pravin Sitaram, Haartz Corp. Austin Wagenhals, Ford Motor Co. Hoa Pham, Sonoco	Heejung Kwon, Songwon Dr. John Mara, Amfine Dr. Raziye Mohammadi, Ford Motor Co
4:15	Sarlink TPV: Powering Sustainable Automotive Innovation Pratik Shah, Teknor Apex	Interior PCR Material with Enhanced Impact and Processability Ben McComb, Advanced Composites Ewa Lebert, General Motors	Evolution of Frunk, Materials, and Sustainability Dr. Haibo Zhao, GEON Performance
4:45	Designing Translucent TPO for Performance and End-of-Life Recyclability Dr Raja Dharmarajan, Kraton	H.B. Fuller's Thermomex® ONE Adhesive for Interior Trim Brent Landis and Rick Snyder, H. B. Fuller	Improving the UV Weatherability of Brightly Colored Automotive TPOs Matt Tiza, LyondellBasell
5:15	Santoprene TPV for Automotive Dynamic Body Seals Abdul Jangda, Celanese	Combination of Lightweight and Sustainable Raw Materials in Eco-Friendly TPE Compound - Stephanie Okon, Kraiburg	High-Performance Piano Black for Automotive Applications Dr. Jun Tian, Birla Carbon
5:45	EVENING RECEPTION SPONSORED BY ADVANCED COMPOSITES		



# 2024 AGENDA

## WEDNESDAY 10 | 2

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AM 7:00

8:15

8:30

9:15

**REGISTRATION / EXPO / NETWORKING / BREAKFAST**  
**CHAIR WELCOME REMARKS / SPONSORSHIP MESSAGE**

### KEYNOTE

**Value Chain Collaboration, Key to a Successful Circular Economy for Plastics**  
Linda Wright, Vice President of Product Solutions Technology, ExxonMobil

### PLENARY DISCUSSION

**Strategic Materials Development – Achieving Carbon Neutrality Goals through Enhanced Product Sustainability**  
Drew Geda, Senior Polymer Materials Development Engineer, Interior Plastic - Strategic Materials  
Hyundai-Kia America Technical Center, Inc. (HATCI), Hyundai Motor Group  
**Q&A PANELISTS** Angelo DiLisio, HATCI; Isabel Newton, HATCI; Jeffrey Wen, HATCI

10:00

**NETWORKING BREAK SPONSORED BY SIRMAX**

**HALL I**

**HALL II**

**HALL III**

### PROCESS ENABLING & ADDITIVE TECHNOLOGIES

David Kosse, Ascend Performance Materials  
Dr. Suresh Shah, Delphi (Retired)  
Anand Bora, Moldex 3D

**Design and Manufacturing of Thermoplastic Composite Bipolar Plates in Proton Exchange Membrane Fuel Cells (PEMFCs)**  
Ali Manzoor, University of Toronto

**Color Concentrates (Do's & Don't's)**  
Matt Telecky, LioChem

**Virtual Reality Scratch Modeling on Textured Polymeric Surfaces**  
Sumit Khatri, Texas A & M

### POLYOLEFIN ELASTOMERS AND VULCANIZATES

Dr. Bhavesh Shah, Lion Elastomers  
Dr. Dave Patel, GuruTech Systems, Inc  
Dr. Nadeem Bokhari, Sumika Polymers NA

**Low Compression set TPV for Dynamic Application in Automotive Industry**  
Serif Erdogan, Elastron

**Innovative Product Designs & Processing with Elastomers**  
Dr. Talat Karmo, Vintech

**A Sustainable and Cost Effective TPV For a Better Future**  
Edgar Gonzalez, Synesis

### SUSTAINABILITY

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

**Efficient Optimization of Natural Fiber Nonwoven Panels**  
Chris Oberste, WEAV3D Inc

**TPO Material Preparation for Chemical Recycling**  
Robert Wahlmüller, EREMA

**A Novel Purification Method to Recycle Polypropylene, Applications to Automotive**  
– Susan Blackson, PureCycle;  
Katie May, Milliken

10:30

11:00

11:30

PM 12:00

1:15

**NETWORKING LUNCH SPONSORED BY SPE DETROIT SECTION**

### STUDENT AWARDS

### PANEL DISCUSSION GENERAL MOTORS

**Life Cycle Analysis – Importance, Challenges and Potential of LCA in Today's Automotive Market**  
Moderators: Matt Vandyke, General Motors; Mark Allen, Dow  
Panelists: Brian Leen, General Motors; Jade Beauregard, General Motors; Rachel Burland, General Motors; Shirell Klein, HRL Laboratories; Susan Kozora, IAC Group; Rob Mimms, Advanced Composites

2:30

**NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION**

### MATERIALS DEVELOPMENT

Dr. Birat KC, Magna International  
Quentin Boll, LyondellBasell  
Dr. Bin Sun, SABIC

**Application of Translucent Polyolefins in Automobile Bumper**  
Jason Li, Kingfa

**Film Technology for Exterior TPO Parts**  
Peter Vander Ster, AzkoNobel

**Cost-Effective Structural Polypropylene Body Panels**  
Christopher Oberste, Weav3d

### EXTERIOR TRIM & STRUCTURAL APPLICATIONS

Mark Pilette, Magna (Retired)  
Charlie Yang, LyondellBasell  
Kevin DeGrood, Borealis

**Chrome-Like Effects Coatings for Exterior TPO Applications**  
Guy LaRouche General Motors  
Bill Coy, Mankiewicz Coatings, LLC

**Vehicle Crash and Energy Management Using Long Glass Fiber Polypropylene**  
Dr. Anil Tawari, SABIC

**TPO's with Recycled Content for Fully Painted Applications**  
Tomik Mouradian, LyondellBasell

### SUSTAINABILITY

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

**Circulen Products-Solutions for Achieving your Circularity Goals**  
Dr. Ryan Breese, LyondellBasell

**Novel Polyolefin Compounds using AirCarbon, the Biomaterial made from Methane-Based Greenhouse Gas - Yosuke Furuya, Sumitomo Chemical Company;**  
Mark Herrema, Newlight Technologies

**Sustainable Material Pillars in the Automotive Industry** Lisa Madenjian, Dow

2:45

3:15

3:45

4:00

**NETWORKING BREAK SPONSORED BY SPE DETROIT SECTION**

### PROCESS ENABLING & ADDITIVE TECHNOLOGIES

David Kosse, Ascend Performance Materials  
Dr. Suresh Shah, Delphi (Retired)  
Anand Bora, Moldex 3D

**Advancing Vehicle Lightweighting Through Digital Lifecycle Modeling of TPO Foam Injection Processes**  
Pradip Sai, University of Delaware

**Feasibility and Potential of 3D Printing in Upcycling of Recycled Polyolefin for Sustainable Automotive Applications**  
Hassan Malik, University of Guelph

### INNOVATIONS IN INTERIORS

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

**Integration of PCR Content in Automotive Interior Applications**  
Andrea Scantambulo, Sirmax

**New Sustainable Generation of Antimicrobial for Polyolefin**  
Dr. Mai Ha, Microban

### POLYOLEFIN ELASTOMERS AND VULCANIZATES

Dr. Bhavesh Shah, Lion Elastomers  
Dr. Dave Patel, GuruTech Systems, Inc  
Dr. Nadeem Bokhari, Sumika Polymers NA

**PCR/PIR GP Black TPV for Under Hood Applications**  
Dr. Sassan Tarahomi, Alterra Holdings

4:15

4:45

5:15

**EVENING RECEPTION SPONSORED BY SPE DETROIT SECTION**

REV. 3

# 2024 AGENDA

## THURSDAY 10 | 3

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8:15

CHAIR WELCOME REMARKS / SPONSORSHIP MESSAGE

8:30

### KEYNOTE

#### OEM Perspective on TPO Industry Trends

David Helmer, General Motors, EGM for Interior, Exterior, Information and Controls Materials Engineering

9:15

### KEYNOTE

#### Product Solutions to Enable Circularity in Automotive Interiors

Sheila Sarver, Inteva Products, Chief Technical Officer

10:00

NETWORKING BREAK SPONSORED BY **SPE DETROIT SECTION**

HALL I

HALL II

HALL III

### MATERIALS DEVELOPMENT

Dr. Birat KC, Magna International  
Quentin Boll, LyondellBasell  
Dr. Bin Sun, SABIC

**Developed Flame-Retardant Glass Fiber Reinforced Polypropylene Compounds for EV Battery Enclosure**

Sho Kurimoto, Sumitomo Chemical Company

### INNOVATIONS IN INTERIORS

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

**Advantages of Injection Molding Behind Thin Film TPO**

David Whitehead, INTEVA

### PERFORMANCE ADDITIVES & COLORANTS

Heejung Kwon, Songwon  
Dr. John Mara, Amfine  
Dr. Raziye Mohammadi, Ford Motor Co

**Novel Light Stabilizer for Polypropylene/ Thermoplastic Olefin Interior Applications**

Dr. Lily Liu, BASF Corp.

10:15

**Exact and Vistamaxx: Exploring the Compositional Effect on TPO Properties**

Brian Satterley, ExxonMobil

**Sustainable and Light-Weight Interior Ducts: New Possibilities with Ultra-Low Density PP Foams**

Joel Pierce, Borealis

**Colored TPV's for Interior Applications**

Dr. Sassan Tarahomi, Alterra Holdings

10:45

**Next Generation Mineral Solutions for Automotive PP and TPOs**

Maziyar Bolourchi, Imerys

**Foams for Auto Interiors**

Paul Sieradski, TORAY

**Ionic Additive to Enhance Recycled Polyolefin Materials**

Eric Evelhoch, Resin Solutions

11:15

11:45

NETWORKING BREAK SPONSORED BY **SPE DETROIT SECTION**

### MATERIALS DEVELOPMENT

Dr. Birat KC, Magna International  
Quentin Boll, LyondellBasell  
Dr. Bin Sun, SABIC

**Thermal Management of Future Battery Electrical Vehicle, Glass Reinforced PP Compounds FR Range Materials Best in Class Solutions**

Nicolas Schlutig, Sumika Polymer Compounds

### INNOVATIONS IN INTERIORS

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

**Sustainable Materials**

James Mazurek,  
MATERI' ACT

PM 12:00

12:30

**Talc Modification of TPOs: The Role of Talc Fineness in Designing Final Properties**

Pierogiovanni Ercoli Malacari,  
IMI Fabi SpA

**Addressing the Circularity Challenge of the New EU End-of-Life Vehicles Regulation: Post-Consumer Recycled PP for High End Automotive Interior Applications**

Joel Pierce, Borealis

1:00

BOX LUNCH SPONSORED BY **SPE DETROIT SECTION**

REV. 3