

MONDAY, OCTOBER 4, 2021

CONFERENCE OPENS / REGISTRATION

WELCOME REMARKS: Conference Co-Chair, **Neil Fuenmayor**, LyondellBasell

KEYNOTE INTRODUCTION: Neil Fuenmayor, LyondellBasell
EXECUTIVE KEYNOTE: **Changing World, Changing Needs, Changing Materials**, Dr. Cynthia Flanigan, Ford Motor Co.

KEYNOTE INTRODUCTION: Neil Fuenmayor, LyondellBasell
KEYNOTE: **The Future of Mobility**, Mark Barrott, Plante Moran

TECHNICAL PROGRAM HIGHLIGHTS: Dr. Norm Kakarala / David Helmer, General Motors Co. / Dr. Alper Kiziltas, Ford Motor Co.

VIRTUAL NETWORKING BREAK

TRACK-I

MATERIALS DEVELOPMENT

Mark Jablonka, Dow
 Peter Glenister, LyondellBasell
 Catherine Wilson, Ford Motor Co.

TRACK-II

SURFACE ENHANCEMENTS & COATINGS

Dr. Rose Ryntz, Ryntz & Associates
 Jeff B. Crist, Ford Motor Co.
 Jim Keller, Mankiewicz Coatings, LLC

TRACK-III

INTERIOR APPLICATIONS & LAMINATING ADHESIVES

Dr. Pravin Sitaram, Haartz Corporation
 Austin Wagenhals, Ford Motor Co.
 Hoa Pham, Freudenberg Performance Materials

TALC: An Active Ingredient for Polymers Modification Towards Lightweighting Approach
 Piero Ercoli, ImiFabi

The Evolution in Surface Enhancements for Automotive Plastics
 Dr. Rose Ryntz, Ryntz & Assoc.

TPO and TPE Opportunities in Smart / Electric Vehicle Auto Interiors
 Robert Eller, Robert Eller Associates LLC

New Innovative Concentrate Solutions for Automotive Applications
 Brian Hanrahan, Celestial Minerals

The Evolution of Flame Surface Treatments in Defense of Conventional Wisdom
 Jamie Brynolf, FTS Technologies

Lightweight Low Force Tearing (LFT) TPO for Foam in Place Applications
 J. Ryan Bailey, Continental

Innovative Solutions to Broaden Polypropylene Glass Fiber Filled Compounds Usage for Structural Applications
 Luca Gazzola, Sirmax SpA

AD-Pro Zero™ - A Powder Slurry Adhesion Promoter
 David Detzler, Clear Skies Powder Coatings

Grain Retention Improvement and Measurement for TPO First Surfaces
 Dr. John O'Gara*, Brett Wreggelsworth, Cameron Gibbins, Inteva Products LLC

MID-DAY VIRTUAL NETWORKING BREAK

MATERIALS DEVELOPMENT

Polypropylene Compound for Under-The-Hood Applications
 Dr. Bin Sun*, D. Brands, L. Havermans, T. Syed, SABIC

SURFACE ENHANCEMENTS & COATINGS

Approaches for Next Generation Adhesives for TPO Bonding
 Arthur Cawley*, Thomas P Clark, Dupont-Mobility and Materials

INTERIOR APPLICATIONS & LAMINATING ADHESIVES

New Crosslinked Olefin Foam for Soft Touch Automotive Instrument Panels
 Paul Sieradzki, Toray Plastics (America), Inc.

Surface Appearance Improvement in Glass Reinforced Polypropylene Compounds
 Alberto Prieto, LyondellBasell

Surface Enhancements with UV-Curable Organic Coatings
 Timo Lindenau, Mankiewicz Coatings LLC

PP Foams for Ultra-Lightweight Automotive Interior Applications
 Kevin DeGrood, Borealis Group

Flame Retardant (FR) Glass Fiber Reinforced Polypropylene Tariq Syed*, Bin Sun, Jose Sales Fernandez, SABIC

Effect of Slip Additive on TPO Wear
 Kwanghae Noh, Texas A&M University

The Phenotypic Properties' Effect on the Foam's Level of Light Transmittance
 Keigo Shimura*, Kevin O'Malley, Rie Matsui, Sekisui Voltek LLC

Tailoring Melt Strength of PP Using an Additive
 Bret Robb, Total Cray Valley

Case Studies with Silicone Masterbatch: Improvements in Flow, Mold Release, and Coefficient of Friction
 Mike McCormack*, Dale Zevotek, Emily Vrbensky, SACO AEI Polymers

Foamed PP Compounds for Aesthetic Automotive Interior Applications
 Dr. L. Havermans*, J. Zhang, G. Kwakkenbos, R. Chu, A. Yanev, D. Bande, SABIC

VIRTUAL NETWORKING BREAK

MATERIALS DEVELOPMENT

Santoprene™ High Resilience TPV in Static and Semi-Dynamic Seals
 Dr. Bhavesh Shah, ExxonMobil

SURFACE ENHANCEMENTS & COATINGS

Enabling New Materials, Properties, and Finishes with PPG's Ambient Reactive Extrusion (ARE) Additive Manufacturing Technology
 Cindy Kutchko, PPG Industries, Inc.

INTERIOR APPLICATIONS & LAMINATING ADHESIVES

Biobased Polyols for Automotive Application
 Wolfgang Geuking*, Nathan Noyes, Erwin Honcoop, Croda Inc.

Reducing Thermal Expansion of a TPO Panel by Polyolefin Elastomer Selection
 Mark Jablonka*, Jeff Munro Dow

Comparison of Analytical Methods of Volatile Organic Compounds Used in Vehicle Interior Materials
 Rocco Rizzo*, Bixi Cha, Jeffery Fisher, Applus Reliable Analysis

Lightweight Thermoplastic Elastomers for Automotive Applications
 Jaykm Battle, Kraiburg TPE Corp.

Innovative SEBS for Improving the Key Properties of TPEs
 Sherry Takagi, Asahi Kasei Corporation

New Standards: A Must for Labeling in the Plastics Industry
 Jason Brownell, Polyfuzer Graphic Corporation

Styrenic Based TPEs with Superior Flow Properties for Automotive Interior Mats
 Stephen Cranney, Kraiburg TPE Corp.

VIRTUAL NETWORKING

CONFERENCE CLOSES FOR THE DAY

TUESDAY, OCTOBER 5, 2021

CONFERENCE OPENS / REGISTRATION

WELCOME REMARKS: Conference Co-Chair, **John Haubert**, Stellantis

KEYNOTE INTRODUCTION: **John Haubert**, Stellantis

KEYNOTE: *Innovations and Trends in Automotive Plastics*, **Dr. Sid Asthana**, Magna Exteriors

CONFERENCE SPONSOR RECOGNITION INTRODUCTION: **Dr. Sassan Tarahomi**, Alterra Holdings

PLATINUM SPONSOR CONFERENCE RECOGNITIONS

VIRTUAL NETWORKING BREAK

TRACK-I

MATERIALS DEVELOPMENT

Mark Jablonka, Dow
Peter Glenister, LyondellBasell
Catherine Wilson, Ford Motor Co.

TRACK-II

SUSTAINABILITY, REUSE, RECOVERY, AND RECYCLE

Mike Balow, Auxin Consulting, LLC
Susan Kozora, IAC Group
Mark Allen, Dow

TRACK-III

INNOVATIONS IN PLASTICS FOR FUTURE MOBILITY

David Helmer, General Motors Co.
Andrew Sanders, Borealis Compounds

3D Printing Advanced Materials for the Future
Dr. Jake Fallon, Braskem

The Great Plastics Distraction: How "Environmental Groups" Obsession with Plastic Has Actually Harmed the Environment
Chris DeArmitt, Phantom Plastics

Future Mobility Trends Affecting TPO Applications
David Helmer, General Motors Co.

Stabilization of MIC TPO, Concepts that Can Drive Higher Performance
Nancy Cliff, BASF

Pursuit of Sustainability Through Lifecycle Thinking
Rich Helling, Dow

Battery Pack Optimization with Polypropylene Materials for Next-Gen Electric Vehicles
Dave Sullivan*, **John Waters**, SABIC

Sustainable Bio-Based Additive Reinforced TPOs for Automotive Applications
Sassan Tarahomi, Alterra Holdings

Plastics and Sustainability in 2021
Patrick Krieger, Plastics Industry Association

Radar Transparency of Thermoplastic Olefins (TPO's) for Bumper Fascia
Dr. Jane Lu*, **Charlie Yang**, LyondellBasell

MID-DAY VIRTUAL NETWORKING BREAK

APPLICATIONS FOR BIOBASED MATERIALS

Dr. Alper Kiziltas, Ford Motor Co.
Akshay Trivedi, General Motors Co.
Drew Geda, Hyundai Motor Group

SUSTAINABILITY, REUSE, RECOVERY, AND RECYCLE

Mike Balow, Auxin Consulting, LLC
Susan Kozora, IAC Group
Mark Allen, Dow

INNOVATIONS IN PLASTICS FOR FUTURE MOBILITY

David Helmer, General Motors Co.
Andrew Sanders, Borealis Compounds

A Study on Fiber Length Distribution of Glass Fibers in an Injection Molded PP Composite
Sandeep Tamrakar, Ford Motor Co.

Challenges and Opportunities for Polyolefins within an Emerging Circular Economy
Geoffrey Inch, Braskem

Boron Nitride Enabled Cable Insulation Material
MD. Golam Rasul, University of Illinois

Blue Agave Fiber – A Lightweight and Renewable Filler for Polymer Composites
Amy Langhorst, Ford Motor Co.

The Role of Plastic Additives in Improving the Properties and Durability of Recycled Automotive Plastics
Nancy Cliff, BASF

Versatile Halogen-Free Flame-Retardant Polypropylene Composites for Lightweight Electric Car Applications
Florian Schuetz, Borealis

Viscoelastic Properties of Basalt-Hemp Hybrid Reinforced PP
Kyleigh Rhodes, Washington State University

Circular Economy Solutions: Borealis Strategy, Infrastructure for PCR and PIR Supply, Product Examples
Andrew Sanders, Borealis

3D Printing with Polypropylene-from Prototypes to Production Parts
Dustin Kloempken, HP, Inc

Hybrid Composites Based on Polysaccharides and LGF **Christian Lenges**, International Flavors & Fragrances

Advanced Additive Technologies for Upcycling
John Mara*, **Jenji Yamashita**, Adeka

Weight Reduction of Plastic Components with the latest Technology
Trevor Pruden, Arburg

VIRTUAL NETWORKING BREAK

APPLICATIONS FOR BIOBASED MATERIALS

Dr. Alper Kiziltas, Ford Motor Co.
Akshay Trivedi, General Motors Co.
Drew Geda, Hyundai Motor Group

SUSTAINABILITY, REUSE, RECOVERY, AND RECYCLE

Mike Balow, Auxin Consulting, LLC
Susan Kozora, IAC Group
Mark Allen, Dow

LIGHTWEIGHTING OF POLYOLEFIN PARTS

Mike Shoemaker, Borealis Compounds
Normand Miron, Washington Penn Plastic Co., Inc.
Dr. Nadeem Bokhari, Sumika Polymers NA

VOC Analysis of Various PP Fiber Reinforced Composites Designed for Automotive Interiors
Kyleigh Rhodes, Washington State University

A Recycled Content Material Solution for TPV Applications
Edgar Gonzalez, Synesis LLC & LyondellBasell

THERMOFIL HP® High Performance Light-Weighting Polyolefins Using CAE
Nicolas Schlutiger, **Hideaki Nishio**, Sumika

Hemp Fiber Filled Composites
Greg Dean, The Hemp Plastic Company

Incorporating Micronized Rubber Powder into Composites to Increase Sustainability in Automotive Applications
Annabel Sharnowski, University of Michigan

Carbon Fiber for Lightweighting
Mark Evans, Borealis

Conducting the Change Using Thermoplastics Filled with Hemp Fibers in Automotive Industry
Jean-Marie Bourgeois-Jacquet, Automotive Performance Materials

Addressing Viability of Collecting and Recycling Automotive Plastics
Andy Brewer, Plastics Industry Association

Light Weight Solutions for Automotive Applications
Charlie Yang, LyondellBasell

VIRTUAL NETWORKING

CONFERENCE CLOSES FOR THE DAY

All times EST USA

WEDNESDAY, OCTOBER 6, 2021

CONFERENCE OPENS / REGISTRATION

REMARKS AND TRIBUTE TO NIPPANI RAO: Conference Co-Chair, **John Haubert**, Stellantis

KEYNOTE INTRODUCTION: David Okonski, General Motors Co.

KEYNOTE: Sustainability in the Automotive Industry & Life Cycle Management Strategies for TPO

Speakers: Professor Lenny Koh and Dr. Alicyn Rhoades

Professor Lenny Koh, Advanced Resource Efficiency Centre (AREC), Partnership and Internationalisation of the Energy Institute at The University of Sheffield

Dr. Alicyn Rhoades, Plastics Engineering Technology at Penn State University - Behrend

CONFERENCE SPONSOR RECOGNITION INTRODUCTION: Dr. Sassan Tarahomi, Alterra Holdings

PLATINUM SPONSOR CONFERENCE RECOGNITIONS

VIRTUAL NETWORKING BREAK

TRACK-I

PROCESS DEVELOPMENTS

Matt Sprouse, Washington Penn Plastic Co., Inc.
Dr. Suresh Shah

TRACK-II

SUSTAINABILITY, REUSE, RECOVERY, AND RECYCLE

Mike Balow, Auxin Consulting, LLC
Susan Kozora, IAC Group
Mark Allen, Dow

Process Development Revolution with IT4.0

Dr. Arash Kiani,
Alterra Holdings

Enabling Sustainability through Post-Consumer Recycle Content in TPO

Robert Mimms, Advanced Composites Inc.

Disruptive Innovation – Digital Polypropylene – 3D Printing

David Tucker, Forecast 3D

Automotive Shredder Waste: A Marketing Challenge

Jeff Spangenberg,
Argonne National Laboratory

How and When to Inject Super Critical Fluids into a Twin-screw extruder to Improve TPE/TPO Compounding Processes and Products
Charlie Martin, Leistritz Extrusion Company

CirKular+ solutions for Plastics Recycling

Amit Desai,
Kraton

TPO Compounding 2030: Past, Present Future of Twin Screw Extrusion

Cameron Kheradi, Coperion Corporation

Inteather™ Material Solutions for a Sustainable Future

Kevin Lyons,
Inteva Products LLC

3D Additive Manufacturing

Trevor Pruden,
Arburg

Summary and Reflection Regarding Sustainability, Reuse, Recovery, and Recycling

Mike Balow, Auxin Consulting, LLC, **Mark Allen**, Dow
Susan Kozora, IAC Group

VIRTUAL NETWORKING

CONFERENCE CLOSES FOR THE YEAR

Revision 13

