Sunday, October 6, 2019

12:00 PM Exhibition Set-up Starts
3:00 PM Tutorial 1: 3D Printing of TPO Parts, David Tucker and Brent Ewald, HP Inc.
4:00 PM Tutorial 2: 3D Printing of Fiber Reinforced TPO Parts, Jeff DeGrange, Impossible Objects
5:00 PM EVENING RECEPTION: Sponsored by Formosa Plastics Group

Monday, October 7, 2019

7:00 AM Registration & Continental Breakfast: Sponsored by Mytex Polymers
8:30 AM Welcome Remarks:
   Conference Co-Chair, Neil Fuenmayor, LyondellBasell
8:45 AM Keynote 1: “Global PP Update: What a Difference a Year Makes!” by Joel Morales, Director Polyolefins North America at IHS Markit
9:15 AM Keynote 2: “Occupy Your Position on the “Design Maturation Spectrum” by Jeevak Badve, Principal, Director Strategic Growth at SundbergFerar
9:45 AM Lunch Sponsor & Reception Sponsor Remarks (Sumitomo Chemical Company & Advanced Composites)

Technical Program Highlights: Dr. Norm Kakarala / David Helmer, GM / Dr. Alper Kiziltas, Ford Motor Co

10:00 AM BREAK: Sponsored by SIRMAX North America

10:30 AM Conference Hall - I Conference Hall - II Conference Hall - III
Materials Development
Mike Balow, Auxin Consulting, LLC
Mark Jablonka, Dow
Peter Glenister, LyondellBasell
Additive Manufacturing (3D Printing)
Dr. Suresh Shah
Nihar Bhuva, Asahi Kasei Plastics North America
Interior Applications & Laminating Adhesives
Dr. Pravin Sitaram, Haartz Corporation
Sarah Gatzek, Ford Motor Co.
Hoa Pham, Freudenberg Performance Materials
Advanced Reactive Based Compounded Materials for Interior, Exterior and Under Hood Applications
Dr. Sassan Tarahomi, Alterra Holdings
Simulation Driven Design for Additive Manufacturing: Opportunities for the Entire Supply Chain
Ravi Kunju, Altair
Autonomous Vehicles, Car Sharing and Electric Vehicles are Driving Smart Applications and TPOs/TPEs will Benefit
Bob Eller, Robert Eller Associates LLC
Injection Molded High Gloss Black TPO for Automotive Exterior Applications
Quentin Boll, LyondellBasell
Digital Texturing Techniques for Automotive 3D Printing
Alex Ju, HP Inc.
TPO Advances for Interior Applications
Jason Fincher, Advanced Composites
Low Emission and Sustainable TPE for Interior Soft-Touch Innovations
Dr. Thomas Köppl, Hexpol TPE
3 D Printed Prototype Parts out of Production Material in Single or Multi Component Technology
Trevor Pruden, Arburg
Advanced TPO and TPE Materials for the Interior of Autonomous and Electric Vehicles
Dr. Sassan Tarahomi, Alterra Holdings

12:00 PM LUNCH: Sponsored by Sumitomo Chemical Company
<table>
<thead>
<tr>
<th>Time</th>
<th>Conference Hall - I</th>
<th>Conference Hall - II</th>
<th>Conference Hall - III</th>
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<tbody>
<tr>
<td></td>
<td>Meeting Tomorrow’s TPO Performance Requirements with Next Generation Polyolefin Elastomers <strong>Mark Jablonka, Dow</strong></td>
<td>Polyolefins in Powder Ben Fusion Additive Manufacturing <strong>Dr. Michelle K. Sing, Braskem</strong></td>
<td>Advancements of the Kraton™ IMSS Technology for Automotive Interiors <strong>Dr. Amit Desai, Kraton</strong></td>
</tr>
<tr>
<td>2:00 PM</td>
<td>**Innovative SEBS for Improving the Properties of TPEs and Engineering Plastics for Automotive Parts. **Sherry Takagi, Asahi Kasei Corporation</td>
<td>Utilizing Conformal Cooling in Injection Molding <strong>Lou Young, Linear AMS</strong></td>
<td>TPO Acoustics Absorbers for Hybrid and Electric Vehicles <strong>Dr. Ali Khosroshahi, Michael Demo Freudenberg Performance Materials LP</strong></td>
</tr>
<tr>
<td>2:30 PM</td>
<td><strong>SK Global Chemical High Performance Polypropylene and Polyolefin Elastomers for Sustainable Solutions for the Automotive Industry</strong> <strong>Dr. Fanny Deplace, SK Global Chemical</strong></td>
<td>Numerical Simulation of Warpage for Thermoplastic Parts in Fused Filament Fabrication (FFF) Process <strong>Dr. Danielle Zeng, Ford Motor Co.</strong></td>
<td>Emission and Odor Behavior of Thermoplastic Elastomers (TPE) for Juan Espinosa, Steve Cranney, Kraiburg TPE</td>
</tr>
<tr>
<td>3:00 PM</td>
<td><strong>New Styrenic Block-Copolymer Impact Modifiers for TPO Compounds</strong> <strong>Dr. Amit Desai, Kraton</strong></td>
<td><strong>Composite Based Additive Manufacturing (CBAM) 3D Technology</strong> <strong>Jeff DeGrange, Chief Commercial Officer, Impossible Objects Inc.</strong></td>
<td>Introduction of Functionalized Air Bag Cover Thermoplastic Elastomers (TPEs) <strong>Hitoshi Kageyama, Sumitomo Chemical Co., Ltd</strong></td>
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<td>t3:30 PM</td>
<td><strong>BREAK: Sponsored by TBD</strong></td>
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<tr>
<td>4:00 PM</td>
<td><strong>Materials Development</strong> Mike Balow, Auxin Consulting, LLC Mark Jablonka, Dow Peter Glenister, LyondellBasell</td>
<td><strong>Bio Based &amp; Recycled Materials</strong> Susan Kozora, IAC Group Dr. Alper Kizitlas, Ford Motor Co.</td>
<td><strong>Lightweighting of Plastic Parts</strong> Mike Shoemaker, Borealis Normand Miron, Washington Penn Plastic Co., Inc. Dr. Nadeem Bokhari, Sumika Polymers NA</td>
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<td>Extending the Value of Polypropylene Composites Filled with Glass Fiber/Talc via Superior Additive Technologies <strong>Kenji Yamashita, ADEKA Corp.</strong></td>
<td>Effect of Water Absorption on Mechanical Properties of Recycled Thermoplastic Composite Materials <strong>Dr. Sandeep Tamrakar, Ford Motor Co.</strong></td>
<td>Fiber Reinforced Polyolefin Materials for Lightweight Constructions <strong>Harold Herbst, Borealis</strong></td>
</tr>
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<td>4:30 PM</td>
<td><strong>High Stiffness and High Impact Glass Filled Polypropylene with Improved Heat and Chemical Stability</strong> <strong>Doug Lunz, PolyOne</strong></td>
<td>Biocarbon- A Renewable and Lightweight Functional Filler for Polymer Composites <strong>Ayse Ademuwagun, Varroc</strong></td>
<td>High Performance Light-Weighting Polyolefins Replacing Engineered Plastics <strong>Hideaki Nishio and Nicolas Schlutig, Sumika Polymers NA</strong></td>
</tr>
<tr>
<td>5:00 PM</td>
<td><strong>Environmentally Friendly Applications of Talc in Automotive Polyolefins</strong> <strong>Piergiovanni Ercoli Malacari, IMI Fabi</strong></td>
<td>Why a New Generation of Bio based Olefinic Materials are Required for Tomorrow’s Vehicle Interior <strong>Dr. Sassan Tarahomi, Alterra Holdings</strong></td>
<td>Carbon Fiber Demand Forecast and Recycling Challenges <strong>Markus Kralicek, Borealis</strong></td>
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<td>5:30 PM</td>
<td><strong>Reception: Sponsored by Advanced Composites, Inc.</strong></td>
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### Tuesday, October 8, 2019

**7:30 AM**  
Registration & Continental Breakfast: Sponsored by ExxonMobil

**8:30 AM**  
Welcome Remarks: Conference Co-Chair, John Haubert, FCA Group

**8:45 AM**  
Keynote 1: “Front & Center: A Focus on the Automotive Rules of Origin in U.S. Trade Negotiations” by Kristin Dziczek, Vice President – Industry, Labor, & Economics at Center for Automotive Research

**9:15 AM**  
Keynote 2: “Global Automotive Elastomers Innovation and Outlook” by Dr. Arash Kiani, CEO of Alterra Holdings

**9:45 AM**  
Conference Sponsor Recognitions  
Lunch Sponsor and Reception Sponsors Remarks (HP and Braskem)  
Awards Presentations: Sponsor Recognitions and Awards for the 2018 TPO Parts Competition Winners

**10:00 AM**  
**BREAK: Sponsored by Borealis**

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| **Materials Development**  
Mike Balow, Auxin Consulting, LLC  
Mark Jablonka, Dow  
Peter Glenister, LyondellBasell  
Dr. Kyle O’Connor, Solvay  
Dr. Li Lu, Ford Motor Co.  
Dr. Arash Kiani, Ford Motor Co.  
Dr. Alper Kiziltas, Ford Motor Co.  
Dr. Alper Kiziltas, Ford Motor Co.  
Dr. Suresh Shah, Braskem  
Dr. Gary Rex, AkzoNobel  
Dr. Alper Kiziltas, Ford Motor Co. | **Bio Based & Recycled Materials**  
Susan Kozora, IAC Group  
Dr. Alper Kiziltas, Ford Motor Co. | **Lightweighting of Plastic Parts**  
Mike Shoemaker, Borealis  
Normand Miron, Washington Penn Plastic Co., Inc.  
Dr. Nadeem Bokhari, Sumika Polymers  
Luca Gazzola, SIRMAX  
Dr. Suresh Shah, Braskem  
Dr. Suresh Shah, Braskem  
Dr. Gary Rex, AkzoNobel  
Dr. Gary Rex, AkzoNobel  
Dr. Gary Rex, AkzoNobel |
| **10:30 AM** | **11:00 AM** | **11:30 AM** |
| Advanced UV and Thermal Stabilizer  
Solution for Enhancing Durability of Automotive TPO  
Dr. Kyle O’Connor, Solvay  
Dr. Chris DeArmitt, Arctic Minerals | Improving the Properties and Durability of Recycled Automotive Plastics Bringing New Life by Restabilization  
Nancy Cliff, BASF  
Lightweighting Solutions in Filled Polypropylene Systems  
Dr. Lily Liu, PolyOne  
Dr. Lily Liu, PolyOne | Innovative Solutions for Maintaining Aesthetics while Creating Light Weight Polyolefin and TPO Applications  
Luca Gazzola, SIRMAX  
Lightweighting Solutions in Filled Polypropylene Systems  
Dr. Lily Liu, PolyOne  
Dr. Lily Liu, PolyOne |
| Latest Stabilization Solutions for Automotive TPO Compounds  
Emilie Meddah, Clariant  
Emilie Meddah, Clariant  
Emilie Meddah, Clariant | Breakthrough Developments in Functional Fillers  
Dr. Chris DeArmitt, Arctic Minerals  
A Developed Antioxidant Formula that Improves Color and Melt Index Compared with Conventional Blends  
David Chui, FDC Lees Co.  
Circular Economy New Challenges and Opportunities for the Plastic Industry: A Polyolefin Producer Approach  
Daniel Bahls Pierera, Borealis | Advances in Lightweight PP Materials Enabled by 3M Glass Bubbles  
Erik Labelle, 3M  
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Erik Labelle, 3M  
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| **12:00 PM** | **LUNCH: Sponsored by HP**

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Dr. Arash Kiani, Ford Motor Co.  
Dr. Alper Kiziltas, Ford Motor Co.  
Dr. Suresh Shah, Braskem  
Dr. Gary Rex, AkzoNobel  
Dr. Alper Kiziltas, Ford Motor Co. | **Process Developments**  
Dr. Suresh Shah  
Dr. Li Lu, Ford Motor Co.  
Dr. Suresh Shah  
Dr. Gary Rex, AkzoNobel  
Dr. Suresh Shah  
Dr. Gary Rex, AkzoNobel  | **Surface Enhancements & Coatings**  
Dr. Rose Rynzt, Rynzt & Associates  
Jeff Crist, Ford Motor Co.  
Jim Keller, Mankiewicz Coatings LLC  
Paint, Color and Coatings for Autonomous Vehicles  
Chris Seubert, Ford Motor Co.  
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Chris Seubert, Ford Motor Co. |
| **1:30 PM** | **2:00 PM** | **2:30 PM** |
| Permanent Ion Conductive Anti-statics in TPOs  
Dr. Emile Homsi, Croda  
Flexible Injection Molding Solutions for the Integration of Functional Films  
Stephen Beasley, Krauss-Maffei Corp.  
Reducing Inspection Based on Data Driven Results from Design of Experiments (DOE)  
Suhas Kulkarni, FimmTech Inc.  
Visual Assessment of Color - The Importance of Visual Color Harmony from Concept to Production  
Perry Banta, LyondellBasell | Weight Reduction of Plastic Components by using Modern Technology  
Trevor Pruden, Arburg  
Reducing Inspection Based on Data Driven Results from Design of Experiments (DOE)  
Suhas Kulkarni, FimmTech Inc.  
Visual Assessment of Color - The Importance of Visual Color Harmony from Concept to Production  
Perry Banta, LyondellBasell  
Flexible Injection Molding Solutions for the Integration of Functional Films  
Stephen Beasley, Krauss-Maffei Corp.  
Reducing Inspection Based on Data Driven Results from Design of Experiments (DOE)  
Suhas Kulkarni, FimmTech Inc. | Coating Innovations on the Horizon  
Karen Kukla, AkzoNobel  
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Visual Assessment of Color - The Importance of Visual Color Harmony from Concept to Production  
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Stephen Beasley, Krauss-Maffei Corp.  
Reducing Inspection Based on Data Driven Results from Design of Experiments (DOE)  
Suhas Kulkarni, FimmTech Inc. |
| **3:00 PM** | **3:30 PM** | **3:30 PM** |
| Highly Efficient and Innovative Halogen Free Flame Retardant Solution for Polyolefin Materials  
Dr. Gary Rex, Hangzhou JLS Flame Retardants | Flexible Injection Molding Solutions for the Integration of Functional Films  
Stephen Beasley, Krauss-Maffei Corp.  
Reducing Inspection Based on Data Driven Results from Design of Experiments (DOE)  
Suhas Kulkarni, FimmTech Inc. | Coating Innovations on the Horizon  
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Stephen Beasley, Krauss-Maffei Corp.  
Reducing Inspection Based on Data Driven Results from Design of Experiments (DOE)  
Suhas Kulkarni, FimmTech Inc. |
| **3:00 PM** | **3:30 PM** | **BREAK: Sponsored by CIMBAR Performance Minerals**

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**Dr. Laura Shereda, Asahi Kasei Plastics North America**  
**New Novel Odor Detection Method**

**Dr. Laura Shereda, Asahi Kasei Plastics North America**  
**Solution for Polyolefin Materials**

**Mike Balow, Auxin Consulting, LLC**  
**Highly Efficient and Innovative Halogen Free Flame Retardant Solution for Polyolefin Materials**

**Dr. Gary Rex, Hangzhou JLS Flame Retardants**

**Sustainable Stabilization Solutions that Address Latest Automotive Trends**

**Thomas SantaMaria, Solvay**

**Reducing Inspection Based on Data Driven Results from Design of Experiments (DOE)**

**Suhas Kulkarni, FimmTech Inc.**

**Visual Assessment of Color - The Importance of Visual Color Harmony from Concept to Production**

**Perry Banta, LyondellBasell**

**Understanding the Design Life of Materials. How is it Measured, Why you Should Care, and What is Possible.**

**Chris White, NIST**
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**Process Developments**  
Dr. Suresh Shah  
Dr. Li Lu, Ford Motor Co.  
  
**Surface Enhancements & Coatings**  
Dr. Rose Rynzt, Rynzt & Associates  
Jeff Crist, Ford Motor Co.  
Jim Keller, Mankiewicz Coatings LLC  | **Benefit of Long Chain Branched PP (LCB) for Foam Molding**  
Dr. Keni Masuda, Japan Polypropylene  
Mr. CK Yoon, Mytex  
  
**Knit-Line Defect Analysis for a Thermoplastic Polyolefin**  
David Okonski, General Motors  |  
**Adhesion Promotion Using Flame Plasma Surface Treatment - A Tutorial**  
Joseph DiGiacomo, Flynn Burner Corporation  |
| 4:30 PM| **Santoprene™ TPV E400: New High-Resilienc Grade**  
Bhavesh Shah, ExxonMobil Chemical Company  | **Enhanced Screw Element Designs for Improved Throughput and Quality of Highly Filled Polyolefins**  
Paul Andersen, Coperion Corporation  | **Quantitative Determination of Adhesive Strength in Polymeric Laminates and Coatings**  
Dr. Sue, Texas A&M University  |
| 5:00 PM| **An Additive Approach to Tailored Melt Strength in PP and TPO**  
Brett Robb, Total Cray Valley  | **Composite Hybrid Reinforcements in Tailgates: A Feasible Solution for Mass Production?**  
Dinesh Munjurulimana, SABIC  | **Over-molding Decoration (OMD)**  
Tom Barr, Wavelock  |

**5:30 PM** Reception: Sponsored by Braskem
## Wednesday, October 9, 2019

**7:30 AM**  
Registration & Continental Breakfast: Sponsored by Red Spot

**8:30 AM**  
Introduction of Keynote Speaker: Conference Co-Chair, Bill Windscheif, Advanced Innovative Solutions, Ltd.

**8:45 AM**  
**Keynote:** “Plastics Sustainability and State of Recycling” by Kim Holmes, Vice President, Sustainability at Plastics Industry Association (Conference Halls I & II Combined)

**9:15 AM**  
**BREAK:** Sponsored by TBD

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Hoa Pham, Freudenberg Performance Materials  
| **Process Developments**  
Dr. Suresh Shah  
Dr. Li Lu, Ford Motor Co.  
| **Surface Enhancements & Coatings**  
Dr. Rose Rytz, Rytz & Associates  
Jeff Crist, Ford Motor Co.  
Jim Keller, Mankiewicz Coatings LLC  |
| **9:30 AM**  
High Performance Reactive Hot Melt Adhesives for PVC - TPO foam skins  
*Dr. Martin Weller, H. B. Fuller Adhesives Deutschland*  
| **9:30 AM**  
Numerical Case Study Assessing Key Factors of Foaming Ability in Injection Molded Parts  
*Alex Baker, Moldex3D N.A.*  
| **10:00 AM**  
Characterization of Stress in Protective Automotive Coatings  
*Jennifer David, Momentive*  |
| **9:30 AM**  
TPO Frame for Acoustic Parts  
*Meagan Marko, Noble Polymers, LLC*  
| **10:00 AM**  
Optimized Extrusion Process for developing High Performance & Lightweight TPOs  
*Dr. Tanmay J Pathak, LyondellBasell*  
| **10:00 AM**  
Effect of Long-chain Branching on Scratch Behavior of Polypropylene  
*Dr. Sue, Texas A&M University*  |
| **10:00 AM**  
SRD-5219: Pre-Applied Waterbased Adhesive for Automotive Interior Applications  
*Jessica Gunder, Sunstar Engineering Americas*  
| **10:30 AM**  
Ultrasonic Welding of Thermoplastic Olefins (TPO's)  
*Dr. Jane Lu, LyondellBasell*  
| **10:30 AM**  
Experimental Observation and Numerical Modeling on Mar Behavior of Amorphous Polymers  
*Shuoran Du, Texas A&M University*  |
| **11:00 AM**  
New Soft Feel Polypropylene Compound with Excellent Scratch Performance for Automotive Interior Applications  
*Dr. Zahra Fahimi, SABIC*  
| **11:00 AM**  
Plastic Processing Solutions using Integrated Infrared Thermal Machine Vision  
*Chris Lemmons, Emitted Energy Corporation*  
| **11:00 AM**  
Tuning the Haptic Profile of Soft-touch Waterborne Coatings with Organic Matting Agents and Feel Additives  
*Dr. Xiangyi Zhang, Dow*  |
| **11:30 AM**  
Metal Rear Injection for Decorative Automotive Interior Surfaces  
*Jeff Bailey, Nolax AG*  
| **11:30 AM**  
Improved PP LGF for Aesthetic Parts  
*Tony Samurkas, Trinseo Performance Plastics*  
| **11:30 AM**  
Advances in Commercial Technology for Scratch & Mar Resistance in TPO Compounds  
*Mike McCormack, AESSE Sales & Distribution*  |

**12:00 Noon**  
**BOX LUNCH:** Sponsored by Alterra Holdings