



# THERMOPLASTIC ELASTOMERS CONFERENCE

September 20-22, 2022 • Akron, Ohio

Presented by the Thermoplastic Elastomers Technical Interest Group and SPE Akron Section

## Technical Program – 15<sup>th</sup> Topical Conference™

**Time**                      **Presentation Title, Presenter-Authors, Company**

### Wednesday, September 21

**8:00 a.m.**    **Opening Remarks**

#### *Morning*

**Moderator - Homaira Naseem, Alphagary**

**8:30 a.m.**    **KEYNOTE: Dr. Krishna Venkataswamy, Innovation Development Insights**  
**“Innovation Shines in Unmasking TPEs”**

**Session 1: Sustainability**

**9:30 a.m.**    **Innovating and Enhancing Sustainability Without Tradeoffs**  
Aparajita Bhattacharya, *Kraton Performance Polymers*

**10:00 a.m.**    **Advanced Bio-Circular Pebax® Rnew® Thermoplastic Elastomers: Sustainable Solutions for Consumer Markets**  
Min Zheng, *Arkema*

**10:30 a.m.**    **Break**

**11:00 a.m.**    **SEPTON™ BIO-series - Bio-based Hydrogenated Styrene Farnesene Block Copolymer with Enhanced Grip Performance**  
Seiya Shimizu, *Kuraray, Co. Ltd.*

**11:30 a.m.**    **Exploring the Multiple Reuse Characteristics of TPU**  
Mike Ramsay, *Lubrizol*

**12:00 p.m.**    **Lunch**

#### *Afternoon*

**Moderator - Hoan Tran, Kuraray**

**Session 2: Material Innovation and New Application Development**

**1:00 p.m.**    **Optimizing TPE Adhesion for Tools, Devices and Appliances**  
Juan Espinosa, *Kraiburg*

**1:30 p.m.**    **The Design of Elastic Ultrasonic Laminates in Hygienic Applications**  
Iyad Muslet, *Berry Plastics*

**2:00 p.m.**    **TPE Adhesives, A Spectrum of Shore Hardnesses**  
Lalith Suragani Venu, *Lubrizol*

**2:30 p.m.**    **Break**

**3:00 p.m.**    **Pathways to Sustainability with Polyolefin Elastomers**  
Dr. Jeffrey Munro, *The Dow Chemical Co.*

**3:30 p.m.**    **Antimicrobial Additives for Micro-mobility and Transportation Safety**  
Dr. Alper Kiziltas, *Ford*; Zeynep Iyigundogdu, *Adana Science and Tech. Univ.*

**4:00 p.m.**    **TPEs for Semiconductor and Photonics Device Handling**  
Raj Varma, *Delphon*

**4:30 p.m.**    **Novel Acrylic Block Copolymer for Over-molding with Polar Resin and Sustainable Solution**  
Moe Kawahara, *Kuraray, Co. Ltd.*



# THERMOPLASTIC ELASTOMERS CONFERENCE

September 20-22, 2022 • Akron, Ohio

Presented by the Thermoplastic Elastomers Technical Interest Group and SPE Akron Section

## Technical Program – 15<sup>th</sup> Topical Conference™

**Time**            **Presentation Title, Presenter-Authors, Company**

### Thursday, September 22

**8:00 a.m.**    **Opening Remarks**

#### *Morning*

**Moderator - Reza Sadeghi, Vinventions USA, LLC**

**8:30 a.m.**    KEYNOTE: Robert F. Savinell, *Case Western Reserve Univ.*  
“Large-scale Energy Storage”

#### **Session 3: Material Innovation and New Application Development**

**9:30 a.m.**    **Advancing the Mechanical Properties of Thermoplastic Elastomer Fibrous Mats**  
Dr. Richard Spontak, *North Carolina State University*

**10:00 a.m.**    **Reduced Carbon Footprint TPEs to Reduce Greenhouse Gas Emissions**  
Homaira Naseem, *Alphagary*

**10:30 a.m.**    Break

**11:00 a.m.**    **Thermal and Tribological Enhancement of TPU**  
Lucio Souza, *Case Western Reserve Univ.*

**11:30 a.m.**    **Sustainable Automotive Weatherseals with Santoprene™ 101-80  
ECO-R and Santoprene HR 121-60E400 TPVs**  
Prashant Bhadane, *Celanese*

**12:00 p.m.**    **Thermal and Rheological Characterization of Thermoplastic Elastomers**  
Greg Kamykowski, *Waters*

**12:30 p.m.**    Lunch

#### *Afternoon*

**Moderator - Prakash Sanjeevaiah, Star Thermoplastics**

#### **Session 4: Sustainability**

**1:30 p.m.**    **Creating Circularity and Sustainability: Recent Advances in High  
Performance TPEs**  
Shu Liu, Liang Xu, *Avient*

**2:00 p.m.**    **The Next Generation of Carbon Black from Renewable Energy and Methane**  
Thomas R. Maier, Ph.D., Esq., *Monolith Corp.*

**2:30 p.m.**    **Biomimicry**  
Prof. Ali Dhinojwala, *The University of Akron*

**3:00 p.m.**    **Innovation in Compounding Thermoplastic Elastomers**  
Santosh Bawiskar, *The Dow Chemical Co.*

**3:30 p.m.**    Adjourn TOPCON