



DETROIT

C O N F E R E N C E ®

TPO

**AUTOMOTIVE
ENGINEERED
POLYOLEFINS**

September 30-October 3, 2012

Call for Papers

**Exhibit & Sponsorship
Opportunities**

2011 SPE Automotive TPO Global Conference Sponsors:



**Attend the World's Leading
Automotive Engineered Polyolefins Forum**

Now in its 14th year, the show is the world's leading automotive engineered polyolefins forum featuring 40+ technical presentations, panel discussions, keynote speakers, networking receptions, & exhibits that highlight advances in polyolefin materials, processes, and applications technologies as well as a growing range of thermoplastic elastomers (TPEs) and thermoplastic vulcanizates (TPVs). This year's show will be held Sept. 30-Oct. 3, 2012 at the Troy-Marriott.

**Present to the Largest Group of Decision
Makers in Automotive Engineered Polyolefins**

The SPE Automotive TPO Global Conference typically draws over 500 attendees from 20 countries on 4 continents who are vitally interested in learning about the latest in rigid and elastomeric TPO as well as TPE and TPV technologies. Fully a third of conference attendees work for a transportation OEM, and roughly 20% work for a tier integrator. Few conferences of any size can provide this type of networking opportunity or put you before such an engaged, global audience vitally interested in hearing the latest olefin advances. Interested in presenting your latest research? **Abstracts** are due **April 27, 2012** and **Papers/Presentations** in **July 31, 2012**. E-mail abstracts/papers to TPOpapers@auto-tpo.com.

**Showcase Your Products & Services
at the World's Largest Automotive
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A variety of sponsorship packages are available. Companies interested in showcasing their products and/or services at the SPE Auto TPO should contact TPOsponsor@auto-tpo.com.

For More Information

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SPE Detroit Section, 1800 Crooks Road, Suite A, Troy, MI 48084, USA

Technical Program Sessions

Technical Program Co-Chairs

Norm Kakarala-Inteva Products LLC

Peter Grelle-Plastics Fundamentals Group LLC

1. Advances in Automotive Polyolefins

Session Chairs- Patti Tibbenham-Ford Motor Co. / Neil Fuenmayor-LyondellBasell

- New application areas.
- Sustainable TPO materials, focusing on technically challenging applications.
- Developments in traditional and novel additives to improve product performance.
- New PP resin, talc, mineral, and elastomeric components and developments.
- Global implementation of TPO grades for global OEM specifications and platforms.

2. Rigid Polyolefin Compounds

Session Chairs- Mike Balow-Asahi Kasei/ Ermanno Ruccolo-Mitsui

- Glass fiber reinforced materials and Technology Improvements.
- Regulatory and environmental Influences on Developments of Compounds.
- Tackling VOC Emissions in rigid compounds.
- Formulating At-The-Press Technology with Masterbatches.

3. Automotive TPEs

Session Chairs- Bob Eller-Robert Eller Associates/Jeff Valentage-ExxonMobil Chemical Co.

- Intermaterials competition between TPEs.
- Benefits of TPE vs. incumbent materials.
- Future prospects for TPE in automotive applications.
- Role of TPE in reducing part weight.
- TPE breakthrough technologies.
- What are the driving factors for TPE substitution?

4. Automotive Interior Trim and Skins

Session Chairs- Bob Eller-Robert Eller Associates/Yvonne Bankowski-Ford Motor Co.

- Lean process technologies for interior soft trim fabrication.
- The materials/fabrication technology comparisons (slush molding, thermoforming, two shot).
- The role of foams in reducing interior soft trim costs.
- Trends in interior decoration.

5. Surface Enhancements

Session Chairs- Dr. Rose Ryntz-IAC/David Helmer-General Motors Corp.

- Painting of TPO-new paint systems, metallic paints, clearcoats, and primers.
- Colorability enhancements in TPO-An Update.
- Developments for improving scratch and mar
- TPO grades developed for improved paint adhesion or aesthetics.
- Process developments for surface finish improvements.

6. Part Design, Tooling & Processing

Session Chairs- David Okonski/Charles Buehler-General Motors Corp.

- Use of mold filling analysis for upfront design for manufacturability analysis.
- Material properties versus mold filling Analysis accuracy.
- P20 and aluminum tooling standards.
- First shots injection molding procedure/requirements.
- Best practices for troubleshooting part defects.
- Effect of nozzle and/or screw design on at-the-press compounding.

7. Understanding TPOs

Session Chairs- Hoa Pham-Washington Penn Plastics/Tom Traugott-Advanced Composites

- Selection of polyolefin resins for performance needs.
- Effect of impact modifiers on product performance.
- Role of fillers in reinforcements and/or lightweighting.
- Processing aids for improved dispersion.
- Stabilization for service life.
- Coloring effects on material/part performance.
- Effect of compounding process on morphology for performance.

8. Lightweight TPO Structural Applications

Session Chairs- Laura Soreide-Ford Motor Company/Dr. Jay Raisoni- Adell Plastics

- New lightweighting developments for TPO.
- TPO success stories-Metal & Other Plastics to TPO Substitution.
- Molding Process Options.
- Actual case study-The Project Team Approach-Design, Tooling, Process and Material Perspectives.
- Carbon, Basalt, Glass Fiber Reinforced Parts.

9. Large Part Thermoforming

Session Chairs- Ed Bearse-Advanced Plastics Consultants/Kurt Dubowski-Mytex Polymers

- Actual part examples- Thermoformed TPO parts.
- Case Study-Discussion on an existing or new thermoformed application that reviews process and design aspects, why TPO was selected and how final part performance was met.
- New TPO resins developed for use in the thermoforming process.
- The future of TPO in the thermoforming process.