



# INTERNATIONAL POLYOLEFINS CONFERENCE

Houston, Texas • February 24-27, 2019

*Presented by SPE South Texas Section, SPE Polymer Modifiers and Additives Division, and SPE Thermoplastic Materials and Foams Division*

## Tuesday Afternoon

12:00 pm - 1:30 pm

**Lunch (Donatello Ballroom Upstairs)**

1:30 pm - 5:00 pm

**Polymer Modifiers and Additives (Salon A)**  
Moderator: Hartmut Siebert

**Compounding and Extrusion (Salon B)**  
Moderator: Amit Chaudhary, Dow

**Sustainability and Durable Applications (Salon C)**  
Moderator: Donna Davis, ExxonMobil Chemical Company

**Characterization (Salon D)**  
Moderator: Willem deGroot, Dow

1:30 pm - 2:00 pm

Innovative Solutions for Film Antiblocking  
Estelle Lagache, Imerys  
Mike Bird, Application Development Manager, Imerys

Design Optimization of Maddock Mixers  
Xiaofei Sun, Dow Chemical

Lightweight Design for Future Mobility Concepts  
Maurits van Tol, Senior Vice President, Innovation & Technology, Borealis

Characterization of Nickel-Coated Carbon Fiber-Reinforced Polypropylene Composites: Effects of Extrusion Processing Method  
Donghwan Cho, Kumoh National Institute of Technology

2:00 pm - 2:30 pm

Solid Phase Extraction for Additive Analysis in Polyolefins  
Robert Bruell, Fraunhofer

New Involute Extruder Screw Elements for Improved Productivity and Quality  
Paul Andersen, Process Engineering Consultant, Coperion

End of Life Vehicle (ELV) Recycling  
Kevin Cronin, Ultra-Poly Corporation

Scratch Resistance of PP as a Function of MFR and fiber content  
Jungsub Lee, Korea University

2:30 pm - 3:00 pm

Simultaneously Extending Impact, Melt Flow, and Stiffness of Polypropylene Impact Copolymers  
Nicolas Treat, Milliken and Co.

Effect of Processing on the Performance of Waterborne Heat Seal Coating  
Carlos Escobar, The Dow Chemical

Using Agricultural Waste to Create More Environmentally Friendly and Affordable Products  
Walter Bradley, Baylor University &

Revealing the Chemical Composition Distribution of Polyolefins Using Crystallization Based Techniques and Interactive

		Company	Texas A&M	Chromatography Priya Garg, SABIC
3:00 pm - 3:30 pm	<b>Break (Atrium)</b>			
3:30 pm - 4:00 pm	On the Mitigation of Threats to Business as Usual in the World of Polymer Additives Rob Lorenzini, Maroon Group	Managing Melt Temperature in a Twin Screw Extruder Charlie Martin, Leistritz Extrusion	Electron Transport in Conductive PP Polymer Nanocomposites Zhanhu Guo, Associate Professor, Univerisity of Tennessee, Knoxville	Asymmetric Flow Field Flow Variant (AF4)--An Alternative to SEC-MALS Robert Bruell, Fraunhofer
4:00 pm - 4:30 pm	New Catalyst Neutralizer Polymer Protector Additive for Polyolefin Polymers Donald Beuke, Mitsui Plastics Inc.	Options to Aid Extruder Screw Removal and Cleaning John Presa, DowDupont	Intelligent Industrial Automation: Using Your Process Data to Solve Quality, Downtime, and Production Problems Sam Cessna, Chief Revenue Officer, Oden Technologies	Hierarchical Multivariate Analysis to Map Structure-Process-Property Relationships David Fiscus, Exxon Mobil
4:30 pm - 5:00 pm	Minerals Solutions for Various Modes of Noise Reduction in Polyolefins Prasad Raut, Imerys	Optimized Extrusion Process for developing High Performance TPOs & Lightweight Polyolefin Composites. Tanmay Pathak, A.Schulman-Lyondellbasell	Lightweighting Strategies with Talc in Automotive TPOs Piergiovanni Ercoli malacari, IMI Fabi Spa	Simple and Fast Methodology for Determination of Additives in Polyolefins using Dissolution/Re-precipitation and Gas and Liquid Chromatographic Analyses Shayne Green, The Dow Chemical Company
5:00 pm - 5:30pm		A New Approache for Evaluating the Processing Stability of Polyolefins Using Microcompounding Niall Marshall, Everspring Middle East WLL		Making Sense of Polyolefin Products through Sensory Science Tanya Fry, Dow Chemical