
SUNDAY, SEPTEMBER 29

Technical Program

2:00 PM REGISTRATION BOOTH OPENS

KEYNOTE ADDRESS SESSION

DISCUSSION LEADERS: RICK REGISTER, JOÃO SOARES, KIM RAGAERT, & JERZY KLOSIN

3:00 PM OPENING REMARKS – JERZY KLOSIN

Geoff Coates (Cornell University)

3:10 PM 1. *McGrath Lecture: Improving the Sustainability of Polyolefins*

LaShanda Korley (University of Delaware)

4:10 PM 2. *Polyolefin Catalytic Recycling through a Macromolecular Lens*

Ron Larson (University of Michigan)

4:50 PM 3. *Polyethylene Branching, Rheology, Processing, and Crystallization: Understanding the Connections*

Dave Parrillo (Dow)

5:30 PM 4. *Advancing the Polyolefin Industry Through Innovation*

6:30 PM WELCOME AND POSTER SESSION

MONDAY, SEPTEMBER 30

7:00 AM CONTINENTAL BREAKFAST

INVITED LECTURE SESSION II – DISCUSSION LEADER: KIM RAGAERT, MAASTRICHT UNIVERSITY

8:00 AM 5. **Frank Leibfarth (University North Carolina, Chapel Hill)**

Reactive Compatibilization through the Selective C–H Functionalization of Polyolefins

Francisco Perez Valencia (SABIC)

8:40 AM 6. *Online Prediction of High-Value Quality Control Properties in Multimodal HDPE Plants*

Dongmei Cui (Changchun Institute of Applied Chemistry)

9:20 AM 7. *Precise Polymerization of Commonly Used Monomers: Catalysts and Mechanisms*

10:00 AM BREAK

INVITED LECTURE SESSION III – DISCUSSION LEADER: JERZY KLOSIN, DOW

10:30 AM 8. **Sarah Mattler (ExxonMobil)**

NMR Characterization of Polyolefins: Expanding Understanding of Materials

Kotohiro Nomura (Tokyo Metropolitan University)

11:10 AM 9. *Synthesis of New Polyolefins by Olefin Insertion/Metathesis Polymerizations Using Designed Molecular Catalysts* 9

12:00 PM LUNCH

MONDAY, SEPTEMBER 30 CON'T

INVITED LECTURE SESSION IV - DISCUSSION LEADER: TBD

- 1:15 PM **Sanjay Rastogi (KAUST)**
10. *Single Crystals Formation During Polymerization and Its Implications on Physical*
- 1:55 PM **Zhibin Zhang (LyondellBasell)**
11. *Application of Chromatographic Techniques in the Analysis of PCR Plastics*
- 2:35 PM **Amanda Lemette T. Brandão (PUC)**
12. *Advancing Polyolefin Identification: Automating Infrared Spectra Interpretation for Microplastic Analysis*
- 3:15 PM BREAK
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INVITED LECTURE SESSION V – DISCUSSION LEADER: TBD

- 3:45 PM **Sean Ewart (Dow)**
13. *Process Chemistry in an Industrial Polyolefin Company*
- 4:25 PM **Oliver Lhost (TotalEnergies)**
14. *Structure-Properties Relationships: The Privileged Way to Speed Up Polyolefin Developments*
- 5:05 PM **Kimberly McLoughlin (Braskem)**
15. *Dynamic Crosslinking to Recycle EVA Thermoset Foams*
- 5:50 PM RECEPTION AND POSTER SESSION
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TUESDAY, OCTOBER 1

7:00 AM CONTINENTAL BREAKFAST

INVITED LECTURE SESSION VI – DISCUSSION LEADER: TBD

- 8:00 AM **Chris Ellison (University of Minnesota)**
16. *Compatibilizer Design for Mechanical Recycling of Polyolefin-Containing Mixed Plastic Waste*
- 8:40 AM **Kenji Michiue (Mitsui Chemicals)**
17. *Recent Research Developments in Single-Site Olefin Polymerization Catalysts at Mitsui Chemicals, Inc.*
- 9:20 AM **Margaret Sobkowicz (University of Massachusetts at Lowell)**
18. *Reactive and Field-Assisted Extrusion to Enable Circular Polyolefins*
- 10:00 AM BREAK
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INVITED LECTURE SESSION VII – JOÃO B. P. SOARES, UNIVERSITY OF ALBERTA

- 10:30 AM 19. **POSTER 1 - TBD**
A
- 10:50 AM 19. **POSTER 2 - TBD**
B
- 11:10 AM 20. **Trey Bruffey (Quantum)**
High Modulus Polypropylene with a Unique Fiber Structure
- 12:00 PM LUNCH
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TUESDAY, OCTOBER 1 CON'T

INVITED LECTURE SESSION VIII - DISCUSSION LEADER: TBD

- 1:15 PM 21. **Bernhard von Vacano (BASF)**
Mechanistic Insights for Polyolefin Recycling in Stabilization Against Chain Scission and Compatibilization
- 1:55 PM 22. **Sharon Elyashiv-Barad (FDA)**
U.S. FDA Regulation of Polyolefin Food Contact Materials
- 2:35 PM 23. **Simone Weber (Evonik)**
Ziegler-Natta Catalysts with Well-Defined Pore Structure and Superior ICP Capability Based on Evonik's Spherical Magnesiumalkoxides and Aliphatic Internal Donor
- 3:15 PM BREAK
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INVITED LECTURE SESSION IX – DISCUSSION LEADER: TBD

- 3:45 PM 24. **Vasilis Touloupidis (Borealis)**
What Can Industrial Catalytic Olefin Polymerization Plants Tell Us About Reaction Kinetics?
- 4:25 PM 25. **Umang Agarwal (Shell)**
Structure-Property Relationships of High-Density Polyethylene Resins for Municipal and Industrial Packaging Applications
- 5:05 PM 26. **Lina Prada (SABIC)**
Polyolefin Applications and Materials to Enable Energy Transition: Driving Innovation and Collaboration
- 5:50 PM BANQUET
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WEDNESDAY, OCTOBER 2

7:00 AM CONTINENTAL BREAKFAST

INVITED LECTURE SESSION X – DISCUSSION LEADER: RICK REGISTER, PRINCETON UNIVERSITY

- 8:00 AM 27. **Sara Orski (NIST)**
Polyolefin Structure-Property Relationships to Enable Measurement Accuracy for Circular Materials
- 8:40 AM 28. **Markus Gahleitner (Borealis)**
Multiple Approaches to Enhancing Polyolefin Circularity: Combining Chemistry, Physics, and Engineering
- 9:20 AM 29. **Graham Lief (CPChem)**
Probing Active Olefin Polymerization Sites on Solid Supports
- 10:00 AM BREAK
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INVITED LECTURE SESSION X – DISCUSSION LEADER: KEN WAGENER, UNIVERSITY OF FLORIDA

- 10:20 AM 30. **Michael Shaver (University of Manchester)**
One Bin To Rule Them All: Quantity and Quality in Polyolefin Recycling
- 11:00 AM 31. **Timothy McKenna (CNRS Lyon)**
Sorption of Vapor Phase Components: Impact on Properties of PE Made in the Gas Phase
- 11:40 AM 32. **Stefan Mecking (University of Konstanz)**
Catalysis to Control and Monitor the Environmental Fate of Recyclable Waste-Sourced Polyolefin-Like Materials
- 12:20 PM CLOSING REMARKS - Rick Register, Ken Wagener, João Soares, Kim Ragaert, & Jerzy Klosin
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