

INNOVATIONS IN PLASTICS RECYCLING AND SUSTAINABILITY

Sunday,

ARRIVAL AND REGISTRATION

3:00 PM REGISTRATION OPENS (remains open through meeting)

Opening Reception

PLENARY LECTURE SESSION Brett Helms, Discussion Leader

4:30 PM OPENING REMARKS

4:45 PM Margaret Spring – Expectations and Challenges for the Revitalized Global Plastics Treaty Negotiations

1

5:30 PM Taylor Uekert – Systems analysis to guide emerging plastic recycling strategies

2

Monday,

7:30 AM CONTINENTAL BREAKFAST

Industry Perspective and Practices Kat Knauer, Discussion Leaders

8:30 AM Jill Martin – Moving from Commitments to Value-Added Implementation: Opportunities for the evolving plastics circular economy

3

9:00: AM Timothée Roux – Understanding the potential environmental drivers of plastic packaging usage across its lifecycle

4

9:30 AM Sreekanth Pannala – Novel Annular Jet Reactor for Direct Conversion of Oligomers to Olefins and Aromatics with Pathway to Carbon Neutrality

5

10:00 AM **BREAK**

10:30 AM Mike Konev (Tereform)

6

11:00 AM Molly Morse (Mango Materials)

7

11:30 AM TBD

8

12:00 PM **LUNCH**

Monday, cont'd

Mechanistic Insights in Plastics Recycling Megan Robertson, Discussion Leader

2:00 PM **POSTER SESSION**

3:30 PM **Break**

9

4:00 PM	Nancy Sottos – Regenerative Manufacturing of Thermoset Polymeric Materials	10
4:30 PM	Shira Haber – Molecular Insights into Enzymatic PLA Deconstruction by Solid-State NMR	11
5:00 PM	Chris Tassone – Polymer Physics for Polymer Upcycling: Solvent and Catalyst Accessibility During Deconstruction and Strain-Induced Structural Evolution in Redesigned Plastics	12
5:30 PM	Sara Orski – Machine Learning-Enhanced Near-Infrared Spectroscopy for Advanced Polyolefin Differentiation	13

Tuesday,

7:30 AM	CONTINENTAL BREAKFAST
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Innovation in Plastics Recycling LaShanda Korley, Discussion Leader		
8:30 AM	Gregg Beckham – Chemical recycling with oxidative solvolysis	14
9:00 AM	Susannah Scott – TBD	15
9:30 AM	Junpeng Wang – Mechanochemical Degradation and Recycling of Polymeric Materials	16
10:00 AM	BREAK	
10:30 AM	Will Dichtel – Derivatives Enable Mechanical and Chemical Recycling of Polyurethanes	17
11:00 AM	Erin Stache – Visible Light-Driven Polystyrene Recycling for Commodity Chemical Production	18
11:30 AM	Max Delferro – Chemical Recycling of Post-Consumer Polyolefins	19
12:00 PM	LUNCH	

Recycle-by-Design Plastics Brett Helms, Discussion Leader		
2:00 PM	Emerging Topics from Attendees / Poster Presenters	20
2:20 PM	Emerging Topics from Attendees / Poster Presenters	21
2:40 PM	Emerging Topics from Attendees / Poster Presenters	22
3:00 PM	BREAK	
3:30 PM	Tim Long – Printing polyesters: Sustainability from a convergence of form factor and functionality	23
4:00 PM	Brent Sumerlin – Depolymerization as a Design Tool for Next-Generation Polymer Materials	24
4:30 PM	Jessica Lamb – Improving the sustainability of how polyoxazolidinones are made and unmade	25
5:00 PM	Wei Zhang – From Bond Exchange Principles to Recyclable Thermoset Design	26
5:30 PM	DINNER ON YOUR OWN	

Wednesday

7:30 AM	CONTINENTAL BREAKFAST	
Sustainable-by-Design Plastics Kat Knauer, Discussion Leader		
8:30 AM	Letian Dou – Topochemical Polydienes as Next-Generation Sustainable Materials	27
9:00 AM	Andrew Dove – Designing Polymers with the End in Mind: Biobased, Circular Plastics	28
9:30 AM	Jia Niu – Bioinspired Strategies toward Recycling and Reuse of Synthetic Polymers	29
10:00 AM	Break	
10:30 AM	Samantha Kristufek – Sugar, Polyphenolic, and Catechol Motifs for Sustainable Polymeric Materials	30
11:00 AM	Ty Christoff–Tempesta – Looping monomer design into vinyl polymer circularity	31
11:30 AM	Closing Remarks	
	<i>Hotel Checkout 11AM</i>	