

Committee on Repurposing Plastics Waste in Infrastructure

Information Gathering Session #6

Web-meeting via Zoom

Agenda

July 29, 2022

1pm-4:00pm Eastern Time

Meeting Purpose

Gather information on plastics recycling research initiatives.

OPEN SESSION

- 1:00 pm **Opening Remarks and Introductions**
- David Dzombak, *Committee Chair*
- 1:05 pm **Session on Recycled Plastics Use and Supply**
- Cristina Serrat, *Fellow, Dow Packaging & Specialty Plastics*
 - Julie Zaniewski, *Sustainability Director, Dow*
- 2:30 pm **Session on Plastics Upcycling and Recyclable by Redesign**
- Gregg Beckham, *Senior Research Fellow, National Renewable Energy Laboratory*
- 3:15 pm **Panel Q&A**
- 3:30 pm **Adjourn Open Session**

Presenter Biographies

Cristina Serrat



Cristina Serrat is a Fellow in Dow North America's Food & Specialty Packaging organization. Cristina began her career with Dow in 1995 in Venezuela's commercial office and moved to Argentina in 1996 when Dow formed the Polisor JV. In 2000, she joined Dow Latin America's Technical Service & Development (TS&D) as application specialist in Polyolefins & Elastomers, where she developed a portfolio of AMPLIFY™ Functional Polymers products for flexible packaging and steel pipe coating. Trained as a Six Sigma Black Belt and certified in 2002, she led several technical projects in Polyolefins, Specialty Copolymers and Wire & Cable for Dow in Latin America. In 2004, she was named Durables & Rigid Applications TS&D leader and moved to Sao Paulo, Brazil. In 2006, she expanded responsibilities as Dow Latin America Consumer Durables TS&D leader, accountable for Appliances, Consumer Electronics, Pipes, Wire & Cable, Elastomers and Bedding & Furniture. In 2007, she was appointed leader of Dow Performance Plastics Materials Science group and moved to Freeport, TX, where she led a global team responsible for the development of new polymer technologies like INNATE™, ELITE™ AT, DOWLEX™ GM and AGILITY™. In 2014, she led the exploration of global opportunities with Dow Packaging New Business Development. She was appointed to her current role in July 2015, where she has responsibility for the pipeline of application projects that will support the next generation of film solutions for food packaging. Ms. Serrat holds a B.S. degree in Physics from the Ohio State University and a M.S. degree in Solid State Physics from the Venezuelan Institute of Scientific Research (IVIC). She is co-inventor in 15 patent applications and 5 US grants.

Julie Zaniewski



Julie Zaniewski is currently the North America Sustainability Director for Dow Packaging & Specialty Plastics (P&SP). In this role, she is responsible for steering collaboration across the packaging industry to drive the circular economy of plastics and to improve waste management infrastructure systems in the region. Ms. Zaniewski also works with key plastics trade associations to identify and monitor critical issues facing the industry and to ensure internal alignment to address those issues.

Before joining Dow, Ms. Zaniewski spent 16 years at Unilever steering packaging design, technology, and sustainability programs for their global and North American business units. During her tenure, she developed several circular economy initiatives and served on various advisory boards in the sustainable packaging industry, including

Sustainable Packaging Coalition, Association of Plastics Recyclers and Closed Loop Fund. Ms. Zaniewski holds a Bachelor of Science Degree in Packaging from Michigan State University.

Gregg Beckham



Gregg T. Beckham is a Senior Research Fellow and Group Leader at the National Renewable Energy Laboratory. He currently leads and works with an interdisciplinary team of biologists, chemists, and engineers on the development of green processes and products from biomass and waste plastics using the tools of chemistry and biology. In BOTTLE, Beckham's team is applying their expertise in chemical catalysis, material science, synthetic biology, separations, analytics, and characterization to conduct research and development towards plastics deconstruction, upcycling, and redesign. Dr. Beckham served as a co-organizer for the National Academies Chemical Sciences Roundtable's workshop, Closing the Loop on the Plastics Dilemma. He received his PhD in Chemical Engineering at

Massachusetts Institute of Technology in 2007.