RECYCLING SCIENCE COUNCIL

Future Trends in Solid Waste Management: Beyond the Blue Bin: Understanding Today’s Waste Management

October 27, 2026





ABOUT RSC

RECYCLING SCIENCE COUNCIL

Our Mission:

The Recycling Science Council (RSC) provides independent, science-based expertise to clarify the environmental and performance aspects of advanced, chemical, and molecular recycling. We help decision-makers, from policymakers to investors, understand how these technologies fit into a sustainable plastics system.

What We Do:

- Analysis
- Expert Briefings
- Engagements

OUR EXPERTS



MARCO J. CASTALDI
Professor of Chemical Engineering / Director of the Earth System Science & Environmental Engineering Program at The City College of New York
Co-Chair



RACHEL A. MEIDL
Deputy Director & Fellow in Energy and Sustainability, Baker Rice University / Advisor, Circular Economy at MSCI Inc.
Co-Chair



GEORGE HUBER
Professor at the University of Madison-Wisconsin / Executive Director, Center for Chemical Upcycling of Waste Plastics (CUWP)



MASSIMILIANO DELFERRO
Chemist, Group Leader at Argonne National Laboratory



STEVE GOFF
Owner of SPG Consulting



GREGG BECKHAM
Chemical Engineer, Lead at BOTTLE Consortium



KEVIN VAN GEEM
Professor at bij Universiteit Gent, CTO at Capture

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PARTNERS

CUWP
Chemical Upcycling of Waste Plastics

RICE UNIVERSITY'S Baker Institute for Public Policy

U.S. PLASTICS PACT™

Department of Chemical and Biological Engineering
UNIVERSITY OF WISCONSIN-MADISON

Energy Transition Institute
UH ENERGY

CENTER FOR PLASTICS INNOVATION
CPI

Panelists

RECYCLING SCIENCE COUNCIL



Marco J. Castaldi, Ph.D.

RSC Co-Chair and Professor of Chemical Engineering and Director of the Earth System Science and Environmental Engineering Program at The City College of New York

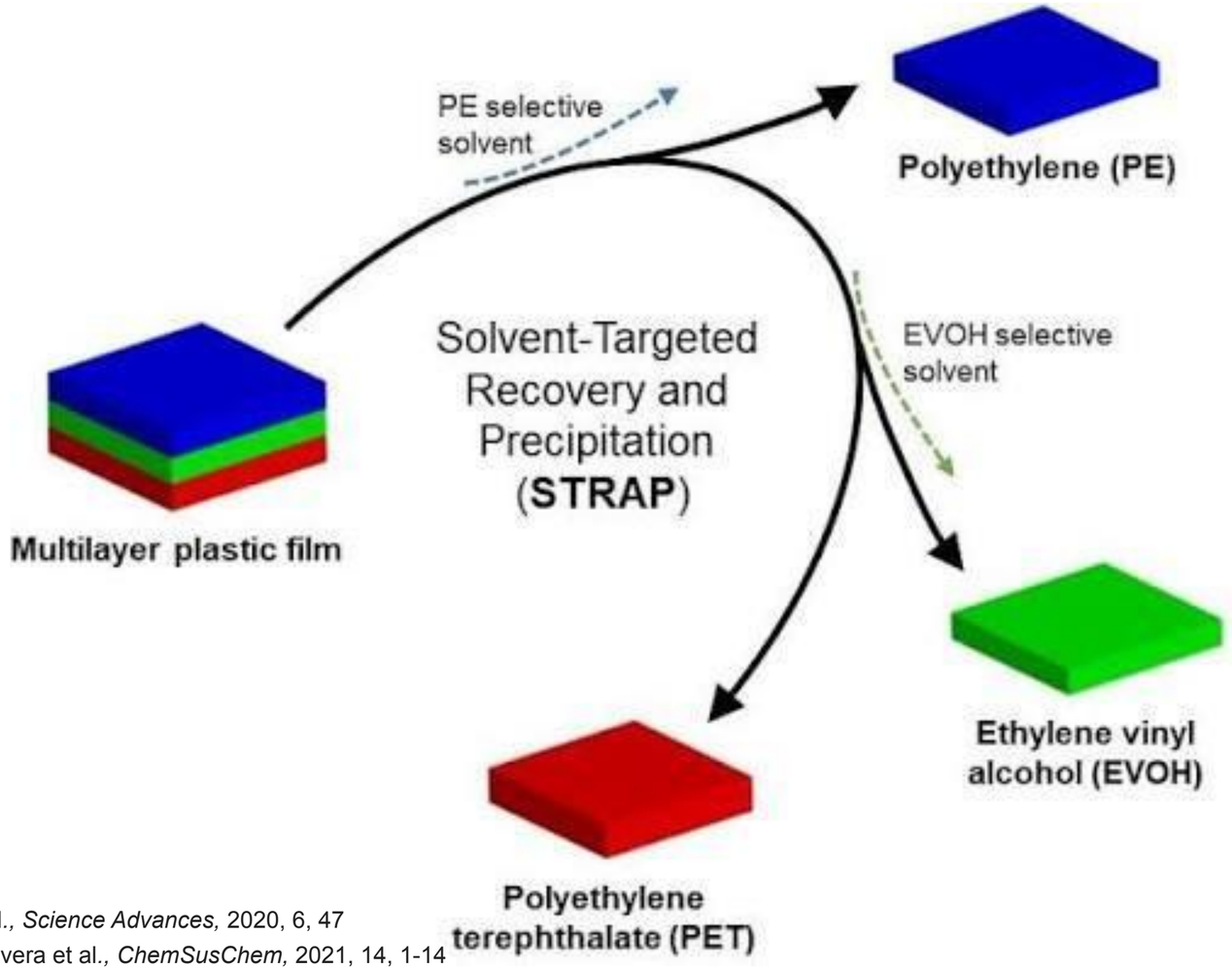


Lily Callen, Ph.D. Candidate

Third-year Ph.D. candidate working under RSC member Dr. George Huber in the Chemical and Biological Engineering Department at the University of Wisconsin-Madison

Dissolution-based recycling through STRAP

Solvent-Targeted Recovery and Precipitation (STRAP) can be used for **complex waste feedstocks**



STRAP feedstocks:

- Multilayer films
- Municipal solid waste (MSW)
- Glasses lens
- Marine plastics
- Biopharma plastics
- Automotive plastics
- K-cups
- Face masks

Walker et al., *Science Advances,* 2020, 6, 47
Sánchez-Rivera et al., *ChemSusChem,* 2021, 14, 1-14

RECYCLING SCIENCE COUNCIL

Thank You

Get In Touch

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