



ACS Local Section
East Texas

April 2023

Next Section Meeting

Date: Thursday, April 20
Time: 7:00 pm (light refreshments will be available at 6:30pm)
Location: Auditorium, B-86
Eastman Chemical Company
Longview, TX

Pyrolysis Recycling of Post-Consumer Use Plastic Waste for Circular Economy Implementation in Developing Regions

Ms. Shelby Browning
Eastman Chemical Company

Combating the environmental crisis caused by mismanaged plastic waste is a global challenge, especially in developing regions due to a lack of recycling availability and waste management infrastructure. One way communities can combat this challenge is by using the process of slow pyrolysis to convert plastic waste into liquid fuel. This talk will present a novel project started by the US based NGO Empowered Solutions for Environmental Sustainability to enable micro-entrepreneurs to start waste to energy businesses in developing countries. Results from a case study in Uganda will be included.

Speaker Bio

My name is Shelby Browning and I work as a chemical engineer for Eastman Chemical Co. I currently support Eastman's Olefins North Division in Longview, Texas as a Process Improvement Engineer. I am a University of Kentucky Graduate with my MA in Applied Environmental and Sustainability Studies (2021) and my BS in Chemical Engineering (2020). I also serve as the vice president of an NGO called Empowered Solutions for Environmental Sustainability (ESES), which was founded early 2020 as a means to help combat global plastic accumulation in the environment through empowering micro-entrepreneurs to convert plastic trash to Poly-Fuel. This is a fuel oil that is composed of 100% recycled content and can be safely used by community members in various applications, such as cooking, lighting, transportation, or agricultural fuel.



Upcoming Dates

April 16-22	Chemists Celebrate Earth Week The Curious Chemistry of Amazing Algae
August 13-1	ACS Fall National Meeting, San Francisco, VSA
October 15-21	National Chemistry Week: The Healing Power of Chemistry
November 15-18	Southwest Regional Meeting, Oklahoma City, OK

2023 Section Officers

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