

# **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 microentrepreneurs 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

Chair Catherine Elueze <u>catherine.elueze@tjc.edu</u>

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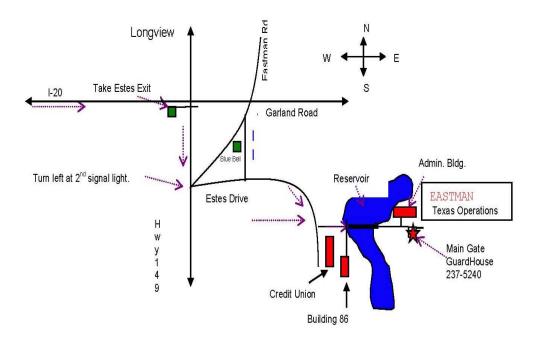
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#### **Section Website**

www.acs.org/easttexas

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## From Shreveport Airport:

Travel I-20 west towards Dallas approximately 60 miles to Longview. Take the Estes Parkway/Hwy 149 exit. At Estes Parkway/Highway 149, turn left and travel over the interstate, continuing 6/10 mile to the second signal light and turn left onto Estes Drive. Travel 9/10 mile and turn left into plant entrance. Before reservoir turn right and follow road to B-86 parking.

#### From Gregg County Airport:

From airport entrance turn right (east) on Hwy 322. Travel 1.8 miles until Hwy 322 dead ends into Hwy. 149. Turn left (north) and travel approximately 1.7 miles to railroad tracks. Immediately after railroad tracks, turn right onto Kodak Blvd. Travel 9/10 mile and turn right at entrance to plant. Before reservoir turn right and follow road to B-86 parking.

#### From Tyler:

From Tyler, travel approximately 40 miles to Longview. Take the Estes Parkway Exit #595A. Turn right (south) onto Hwy. 149. Travel 4/10 mile to second signal light. Turn left onto Estes Drive and travel approximately 9/10 mile and turn left into plant entrance. Before reservoir turn right and follow road to B-86 parking.