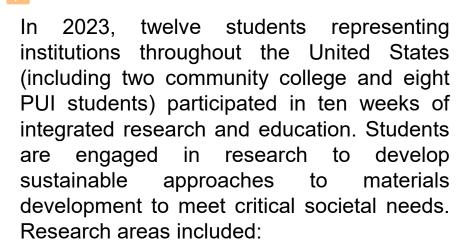
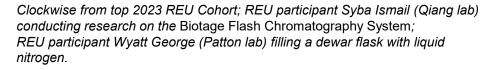
REU Site: Polymer Innovation for Sustainable Future

Sarah E. Morgan, University of Southern Mississippi



- Polymers synthesized from renewable sources
- Biodegradable materials
- Reversible and repairable materials
- Materials with enhanced properties and lifetimes
- Reduced energy polymer processes
- Materials to improve utilization of natural resources









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REU students spend ten weeks conducting hands on research under the guidance of a graduate student mentor and a faculty advisor. They present their research orally three times during the summer and compete in a final poster presentation, this year being held at a joint conference of the MS NSF EPSCoR and NIH IDeA Networks. The competition winners received a travel award to present at the 2023 IDeA South Eastern Region Conference and the 2024 national ACS Spring Meeting.

Throughout the summer, REU students participate in professional development including polymer science and engineering classes, communications and abstract writing workshops, teambuilding, and field trips to local industry and national labs. They also held outreach events hosting students from Covington County Boys and Club and the Frances A. Karnes Centre for Gifted Studies.

Clockwise from top 2023 REU Cohort participating in teambuilding; REU participant Patrick Boyd (Clemons lab) conducting the Elephant Toothpaste demonstration to students; REU participant Morgan Gunter (Ma lab) presenting at the MS IDeA/EPSCOR Conference; REU participant John Searles (Morgan lab) at Western Container field trip

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