Advanced BioSystems Workshop
Growing the Bioeconomy in Uncertain Times
Friday, February 12, 2021

AGENDA

9:00 am  **KEYNOTE ADDRESS**
Developments in Bio-based Materials Markets
Doris de Guzman, Tecnon OrbiChem/Green Chemicals Blog

9:40 am  **Targeting Solutions for Components of the Bioeconomy**
Ajay Shah, Ohio State University

10:00 am  **CONCURRENT BREAKOUT SESSIONS:**
- **Breakout 1:** Biobased products and fuel
  Facilitated by: Denny Hall, *Ohio State University*
- **Breakout 2:** BioSystems logistics from crops to market
  Facilitated by: Andrea Flowers, *Cargill*
- **Breakout 3:** Policy and governance
  Facilitated by: Alexa Combelic, *American Soybean Association*

11:00 am  **Summary from each breakout discussion**
Facilitators

11:15 am  **Panel discussion and Q&A**
Facilitators and all participants

12:00 pm  Adjourn

**BREAKOUT SESSION DESCRIPTIONS**

**Biobased products and fuel**  **| Facilitated by: Denny Hall, Faculty Emeritus, Ohio State University |** Plant-based materials need to be competitive on both performance and price. Although polls of consumers indicate they are willing to pay more for sustainable products. How can bioproducts and biofuels be more attractive or competitive? How can producers increase their flexibility and resilience, such as ethanol plants producing hand sanitizer when public health concerns increased demand while fuel demand decreased? What is needed to help companies transition from pilot to commercial scale?

**BioSystems logistics from crops to market**  **| Facilitated by: Andrea Flowers, Grain Originator, Cargill Inc. |** Improving the efficiency of handling and transporting feedstocks, storage, pretreatment, and distribution can have a significant impact on the value chain of plant-based materials. Increasing flexibility within these systems can allow companies to meet rapidly changing demands, especially in times of crisis (e.g., COVID-19 pandemic). What changes are needed to increase the capacity of farming systems to absorb these shocks? What is needed to help companies identify new opportunities quickly? How might machine learning or other technologies contribute to a more efficient, flexible and robust system?

**Policy and governance**  **| Facilitated by: Alexa Combelic, Director for Government Affairs, American Soybean Association |** Changing priorities and policies at state and federal levels can affect the direction of the bioeconomy and help bridge the gap from product development to commercial production. What policies are needed to provide a better support framework for both the biofuel and bioproduct sectors? Should governments focus their resources on one sector or both? How can different types of financial support, such as tax incentives, subsidies, or research funding, be used most effectively?