“Creating a future without waste or pollution is among society’s most pressing challenges and greatest opportunities to improve the human condition. Achieving this goal in our lifetime requires rapid technological innovation, which can only be achieved when transformative discoveries from basic science and engineering research are translated to practice.” (World without Waste 2021 Workshop Report).

AGENDA | 9:00 am – 12:00 pm (ET)

Envisioning a Circular Bioeconomy: Challenges and Opportunities | Jonathan Male, Co-director, Washington State University-Pacific Northwest National Lab (WSU-PNNL) Bioproducts Institute | Dr. Male focuses on developing affordable technologies for the reuse of carbon. Previously, he served as the director of the Bioenergy Technologies Office (BETO) at the Department of Energy (DOE), leading the Office’s work to lower modeled costs, reduce technology uncertainty, and accelerate research and development of bioenergy and renewable chemicals technologies in the emerging bioeconomy.

Addressing Research Gaps Needed to Achieve a Circular Bioeconomy | Ajay Shah, Professor, Ohio State University | Dr. Shah’s research focuses on integrated analysis of existing and emerging agricultural and biobased systems to improve productivity, minimize wastes, reduce costs, abate environmental impacts and encourage social acceptability. His work emphasizes improving the sustainability of crop/feedstock production technologies and logistics; upcycling organic wastes; and evaluating the techno-economics and life cycle environmental impacts of agricultural and biobased systems.

A Stakeholder Perspective on Moving Toward a Circular Bioeconomy | Barry McGraw, Director, Product Development and Commercialization, Ohio Soybean Council | In addition to leading OSC’s soy biobased research and commercialization program since 2013, Mr. McGraw is the founder and CLO of Airable Research Lab, a business line of the OSC that provides synthesis, formulation, and analytical capabilities. He also has 15 years of experience with Battelle, playing a key role in their biobased materials team, and holds a B.S. in Plastics Engineering from Shawnee State University.

Envisioning Circularity at Ferm Solutions/Wilderness Trail Distillery | Pat Heist, Co-owner and Chief Scientific Officer, Ferm Solutions and Wilderness Trail Distillery | Dr. Heist provides expertise as well as yeast and fermentation products, technical support and training to the fuel and beverage ethanol distilleries, including controlling bacterial contamination during ethanol production and yeast strain selection and improvement. In 2013, Ferm Solutions expanded its operations and formed Wilderness Trail Distillery, which produces a variety of craft-distilled spirits.

Panel discussion and Q&A with speakers | Moderated by Denny Hall, Ohio State University

REGISTRATION
Cost: $25 per person | Online registration: https://go.osu.edu/biosystemsdec2022wkshp. OR, print and complete this form. Mail with payment (no credit cards) as indicated.

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