

Flies, Frass, Feces and Fields

AUGUST 15, 2025

2:30 PM ET, 1:30 PM CT,

12:30 PM MT, 11:30 AM PT

The **Flies, Frass, Feces, and Fields** webinar will explore how black soldier fly larvae (BSFL) can transform food and agricultural waste into valuable products for both animal feed and soil health. Presenters will discuss large-scale BSFL production, the frass co-product, and how nutrient content can vary based on inputs and processing. The session will cover **regulations, marketing considerations, and practical handling** for soil application, as well as **research comparing frass to poultry litter and synthetic fertilizers**. This innovative approach offers a circular solution to food waste and fertilizer needs, supporting sustainable agriculture and food security.

An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.

Dr. Jeffery K. Tomberlin is a Professor, AgriLife Research Fellow, & Presidential Impact Fellow in the Department of Entomology at Texas A&M University and Fellow of the Entomological Society of America. Since arriving at Texas A&M University in 2002, 21 Ph.D. and 21 M.S. students have completed their degrees under his supervision with many **focusing on black soldier fly and sustainable agriculture**. He has also supervised 8 postdoctoral associates. To date, he has edited 9 books, published 30+ book chapters and +260 research articles which have more than 26,500+ citations. Through his efforts, he has been recognized as a Fellow by the American Academy of Forensic Sciences, Entomological Society of America, and the Royal Entomological Society. Email: jeffery.tomberlin@ag.tamu.edu



Jeffery Tomberlin
Texas A&M University

Dr. Amanda Ashworth received her B.S. in Environmental, Soil, and Water Science from the University of Arkansas; M.S. in Crop, Soil and Environmental Sciences, University of Arkansas; and, a Ph.D. in Plant, Soils, & Insects in the Plant Sciences Department at the University of Tennessee in 2014. Dr. Amanda Ashworth is currently Acting Research Leader and a Research Soil Scientist at the USDA-Agricultural Research Service, Poultry Production and Product Safety Research Unit. Dr. Ashworth's work **focuses on plant-soil-water interactions at the systems-level related to the development of best management practices**. Email: amanda.ashworth@usda.gov



Amanda Ashworth
USDA-ARS



Liz Koutsos
Enviroflight

Dr. Liz Koutsos is President of EnviroFlight LLC, a **producer of black soldier fly larvae derived ingredients in the US**. EnviroFlight has worked to achieve regulatory approvals and open markets for these sustainable ingredients and for the frass co-product. EnviroFlight has participated in frass-related research trials throughout the US in a variety of soil and crop conditions to better understand the value of frass to the end user. Liz received her PhD from UC Davis and worked in academia and industry positions related to animal nutrition and agriculture since then. Email: lkoutsos@enviroflight.net



Nancy Bohl-Bormann
University of Minnesota

Dr. Nancy Bohl Bormann is a Manure and Nutrient Management Researcher at the University of Minnesota in the Soil, Water, and Climate Department. She graduated in summer 2024 with her Ph.D. in Land and Atmospheric Science from the University of Minnesota. She received her B. S. from Iowa State University and M.S. from the University of Wisconsin-Madison. Her main research focuses on the development and implementation of a nationwide manure test database called ManureDB. Previously she worked in the nutrient management field for fourteen years as a CCA and TSP, and she grain farms with her husband Matt and three children. Nancy will **serve as the moderator for this webinar**. Email: nlbb@umn.edu

Additional Information

- Insect Frass Composition https://www.researchgate.net/publication/377112528_insect_frass_composition_and_potential_use_as_an_organic_fertilizer_in_circular_economies

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Livestock and Poultry Environmental Learning Community

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