LPELC Educational Webinar Series

Carbon Markets for Livestock Operations:

Manure Treatment and Handling

NOVEMBER 18, 2022

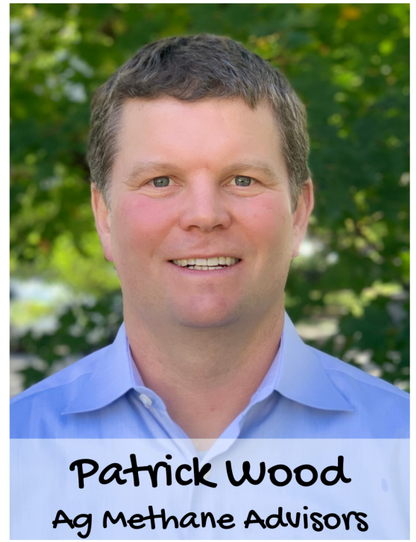
2:30 PM ET, 1:30 PM CT,
12:30 PM MT, 11:30 AM PT

Greenhouse gas (GHG) emissions continue to pose a significant challenge to our planet. Carbon markets are the primary strategy to reduce GHG emissions across our economy. Agriculture is positioned to play an important role in this transition to lower carbon emissions. Understanding the fundamentals of carbon emissions, as well as technologies, practices and market opportunities available to agricultural producers are critical to that transition. In this webinar, we'll explore the fundamentals of **carbon markets and how food animal producers can benefit from them** to improve our understanding of the economic opportunities to livestock producers, focusing on manure handling and treatment prior to it leaving the facility. This webinar is the first in a 3-part webinar mini-series on carbon markets for livestock operations.

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.

Mahmoud Sharara is an assistant professor and extension specialist at North Carolina State University, Biological and Agricultural Engineering Department. He received his M.S. and Ph.D. in Agricultural and Biological Engineering from the University of Arkansas. **Sharara's research focuses on sustainable management of agricultural waste and byproducts to generate value-added products and reduce agriculture-related impacts on ecosystems**. Mahmoud will serve as the moderator for this webinar.
Email: msharar@ncsu.edu

Patrick Wood is the Founder of Ag Methane Advisors, a niche consulting firm that helps livestock producers reap the benefits of reducing greenhouse gas emissions. For the past 14 years, his primary focus has been on the various **environmental commodities (offsets, LCFS credits, RECs, and RINs) available to dairy biogas producers**. Patrick has a background in production agriculture and a Master's degree in applied/ecological economics from the University of Vermont.
Email: patrick@agmethaneadvisors.com



Hal Langenbach is the Vice President of Agriculture and Environmental Services at Agri-Waste Technology. With 15 years of experience in the carbon offset realm, Hal has been able to verify a wide variety of GHG reduction projects. The project types include Livestock, Landfill, Organic Waste Digestion, Organic Waste Composting, & Coal Mine Methane projects. Hal is a **lead verifier for CARB offsets, LCFS V/Vs and Oregon CFP**. Hal is a graduate of the Agricultural Engineering program at NC State and specializes in agricultural waste management.
Email: hlangenbach@agriwaste.com

How do I participate?

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Livestock and Poultry Environmental Learning Community

The LPELC is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animals systems should have on-demand access to the nation's best science-based resources. See our website at: lpelc.org

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