

2025 Ohio – 4R Technology Review Field Day

When: Wednesday, August 27

Where: National Advanced Air Mobility Center for Excellence Springfield, Ohio

Who: Retailers, Farmers, CCAs (credits will be offered), and other interested parties

Agenda:

8:30 am Registration (Coffee, Juice & Donuts)

8:50 am Welcome and Introductions

Aaron Heilers, Director of Nutrient Management and Ag Policy, OABA

Please note: Groups will rotate to each presentation. Your group identifier (A, B, C) is found on your name badge.

Cover Crops and Soil Elements (CCA: 1 SW)

- Dr. Hanna Poffenbarger, Associate Professor of Soil Nutrient Management, University of Kentucky This presentation will describe how cover crops influence soil carbon stocks, as well as the availability of key soil nutrients (nitrogen and sulfur) based on research conducted in Kentucky. Management implications will be discussed.

An Overview and Demonstration of the Fertilizer Recommendation Support Tool (CCA: 1 NM)

- Dr. Nathan Slaton, Assistant Director of the Arkansas Agricultural Experiment Station and Professor of Soil Fertility
- Scott Fleming, Sampling Director, Rock River Laboratory, Wisconsin

The presentation will introduce the FRST Project's goals, summarize the past and ongoing FRST activities, and demonstrate how the archived FRST data can be accessed and examined to augment the interpretation, validation, and development of science-based crop fertilization guidelines.

The Why, How, and When of Micronutrients (CCA: 1 NM)

- Tommy Roach, Vice President of Product Development & Technical Services, Nachurs Alpine Solutions
- Temple Rhodes, Farmer, XtremeAg, Maryland

Plant growth and development involves much more than just making sure N, P, and K demand is met. Although required in smaller amounts, micronutrients are a vital component in helping to achieve nutrient balance and maximum productivity. Adding micronutrients at specific periods of influence aid in photosynthetic capacity, enzyme activation, cell division, stress mitigation, protein synthesis, and hormonal balance. Resisting the urge to eliminate micronutrients from your overall fertility program during times of depressed commodity prices is difficult but will provide significant value and overall net farm ROI in both the short and long-term.



12:00 pm **Lunch** – Sponsored by Integrated Ag Services, The Anderson's, and Morral Companies Guest Speaker: Brian Baldridge, Director, Ohio Department of Agriculture

1:00 pm Revolutionizing Logistics: BETA Technologies' eVTOL Solutions for Cargo and Medical Transport (CCA: 1 CM)

- Diane Vitas, OHIO Simulator Instructor Lead, Beta Technologies

This session will explore BETA Technologies' capabilities in supporting cargo logistics and medical supply transport through the use of their electric Vertical Takeoff and Landing (eVTOL) aircraft. Attendees will learn how this innovative technology can reduce reliance on large, traditional motor vehicles—resulting in significant savings in cost, time, and environmental impact.

Driving the Advancement of UAS Technology to Benefit the People of Ohio (CCA: 1 PAg)

- Richard Fox, Airspace Manager, Ohio UAS Center

This session will showcase how the ODOT UAS Center is leveraging drone and UAS technology to perform inspections of bridges, land, and waterways as part of state-focused infrastructure projects. The team's expertise highlights the potential for expanding these capabilities into future applications, including agricultural use cases.

Advancing Precision Agriculture: Sinclair's Innovation in Drone and UAS Technology (CCA: 1 PM)

- Dr. Alison Norton, Lead Project Manager, Sinclair Community College

This session will highlight Sinclair's ongoing research and development in using drones and UAS technology for agricultural applications. Topics will include property scanning, advanced spraying capabilities, and the integration of sensor technologies. The session will also explore how these innovations are advancing the field of precision agriculture.

4:00 pm Adjourn Event

PLEASE NOTE:

Be sure to claim your Fertilizer Certification Credits and CCA Credits before leaving for the day!