

# Manure Science Review

Wednesday, August 2, 2017

8:45 am to 4:00 pm

Stoller Brothers & Sons

9257 Road 144, Paulding, OH 45879



Checking out a liquid applicator  
(MSR 2015)

## Agenda (8:45 am - 3:30 pm)

Registration. Coffee and donuts.

**Using Manure Nutrients Effectively.** Soil and manure analysis and manure application methods, such as side dressing, can improve crop yields and reduce nutrient runoff.

*Glen Arnold, OSU Extension*

**Nutrient Application: Regulations Update.** Overview of Ohio's rules on manure application and the importance of record keeping. *Kevin Elder, ODA-DLEP, and Matt Lane, ODA-DSWC*

**Reducing Nutrient Movement: Data from Edge of Field Studies.** What on-farm research tells us about when and how to apply manure to minimize nutrient runoff.

*Emily Duncan, USDA-ARS*

**Cover Crops: Opportunities and Challenges.** Cover crops can reduce nutrient runoff and soil erosion but results may vary depending on the crop and other factors. *Speaker panel:*

*Leon Klopfenstein, Jeff Rasewehr, Alvin King, Tim Harrigan. Moderator: Sarah Noggle, OSU*

**Best Practices for Manure Application.** Planning can improve nutrient availability, save money, and protect the environment. *Tim Wood, M&W Farm Supply and Sam Mullins, ODA-DLEP*

**Staying safe.** Understanding gases produced during manure storage and safety measures to prevent accidents. *Kent McGuire, OSU*

**Lunch** (included in registration)

## FIELD DEMONSTRATIONS

**Solid Manure Spreader Calibration.** *Jocelyn Henderson, ODA-DSWC*

**Smoking Subsurface Tile Drainage.** *Frank Gibbs, Wetland and Soil Consulting Services*

**Reducing Flow through Subsurface Tile Drainage.** *Justin McBride, ODA-DSWC*

**Applicator Demonstrations.** *Glen Arnold, OSU*

- Incorporating poultry litter
- Side dressing with liquid manure
- Liquid manure surface vs. subsurface
- Effect of drag hose on growing corn
- Frac tanks for rapid transfer

**Cover Crops: Planting and Applying Manure.** *Jim Hoorman, USDA-NRCS; Bret Margraf, Seneca SWCD; Sarah Noggle, OSU*

**OPTIONAL: Emergency Manure Spill Response Demonstration** *Ed Bohn, Paulding EMA*

## SPONSORS

### PLATINUM:



<https://ohleap.org/>

### GOLD:



## THANK YOU!

For sponsorship or exhibitor information contact :

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## COLLABORATORS



**CEU's**

The following continuing education credits have been approved:

**ODA Certified Livestock Manager (CLM):** 4.0 continuing education units (CEU's)

**Certified Crop Advisor (CCA):** 2.5 Soil & Water Management (SWM) CEU's  
2.0 Nutrient Management CEU's  
0.5 Professional Development CEU's

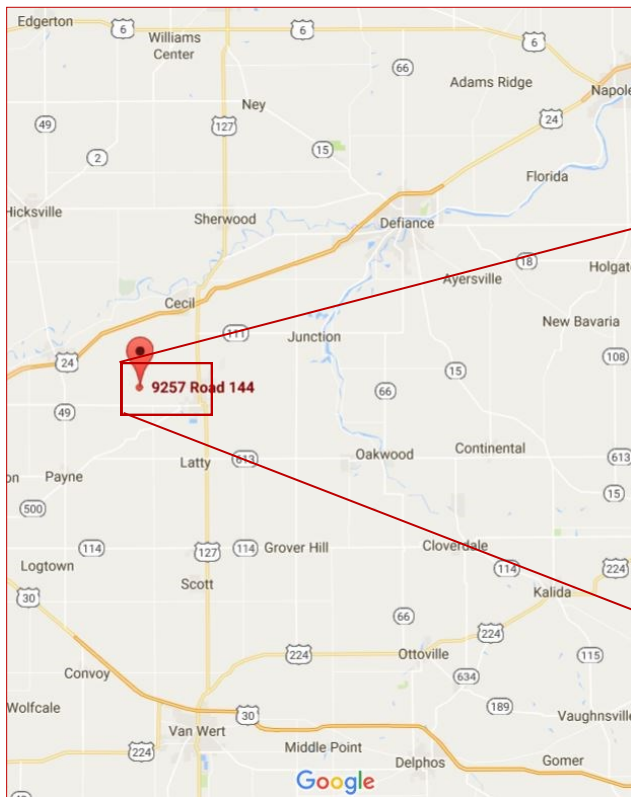
**Professional Engineer (PE):** 2.0 Continuing Professional Development hours (CPD's)

**IN Office of State Chemist:** 2.0 Ag Fertilizer Application (Cat 14) continuing certification hours (CCH's)

**PA Manure Hauler/Broker:** 6.5 Nutrient Mgmt & Manure Hauler/Broker CEC's (includes Spill Response)

**NOTE:** An additional **1.5 CCA SWM CEUs** and **1.0 CLM CEUs** have been approved for the Spill Response Demo.

**Directions to the Manure Science Review**



**Location:** Stoller Brothers & Sons  
9257 Road 144  
Paulding, Ohio 45879



**Registration**

Please complete the registration form and send it with your payment. For credit cards payment, register online at <http://go.osu.edu/manure17>.

Name(s): \_\_\_\_\_ Affiliation: \_\_\_\_\_

Street/City/Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

Registration BEFORE July 24, 2017, includes continental breakfast and lunch:

Registration fee: \$25 per person.      Number attending \_\_\_\_ X \$25 = \$ \_\_\_\_\_

Registration AFTER July 24, 2017 includes continental breakfast and lunch:

Registration fee: \$30 per person.      Number attending \_\_\_\_ X \$30 = \$ \_\_\_\_\_

Send form and payment to:

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Wooster, OH 44691

Make checks payable to:

**OARDC/OSU**