



## Conservation Tillage & Technology Conference

to be held at  
**McIntosh Center**  
**Ohio Northern University**  
**402 West College Ave.**  
**Ada, Ohio 45810**

on  
**Tuesday-Wednesday**  
**March 6-7, 2018**

**CTC 2018 Sponsored by:**

- *Ohio State University Extension and OARDC*
- *Northwest Ohio Soil & Water Conservation Districts*
- *USDA Natural Resources Conservation Service*
- *USDA Farm Service Agency*
- *The Ohio No-Till Council*
- *Xtend Crop Systems*
- *Ohio Corn Marketing Program*
- *Ohio Soybean Council*
- *Ag Credit*
- *Seed Consultants*
- *Farm Science Review*

See web site at <http://ctc.osu.edu>

## Wingfield Crop Insurance Service proudly supports the 2018 Conservation Tillage Conference

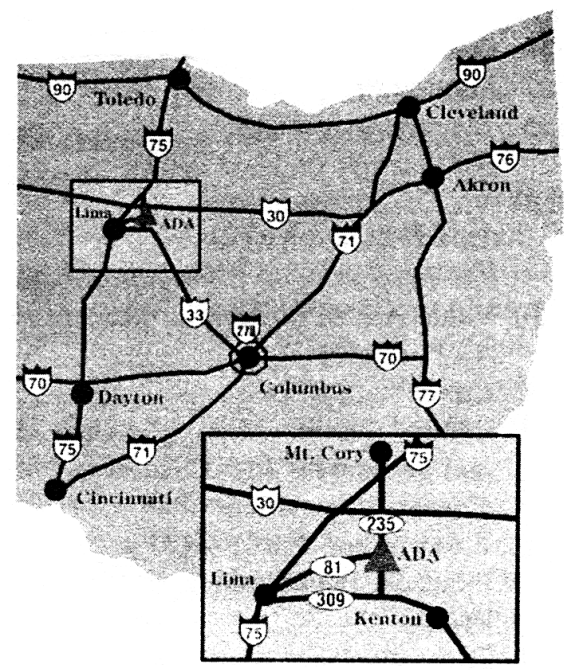


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### Room Reservations

**The Inn at Ohio Northern University**  
 419-772-2500  
 Special CTC rate: \$115 plus tax  
 (plus \$20 each additional guest)

Kenton, Rt. 67, east of Rt 31  
**Country Hearth & Suites**, 419-675-1400  
 Special CTC rate: \$72 plus tax

Lima, I-75 at SR 309  
**Hampton Inn** 419-225-8300  
 Ask for CTC rate: \$99 plus tax  
 (call by Feb. 24)

Bluffton, I-75 at Rt 103  
**Comfort Inn** 419-358-6000  
 Special CTC rate: \$79.00 plus tax  
 (For 1-2 people; Call by Feb. 24)

**For More Information Call:**

**Registration**  
 Allen SWCD 419-223-0040 Then press 3  
**Details on Program and CCA Credits**  
 OSU Extension, Hardin County – 419-674-2297  
 For updated program go to: <http://ctc.osu.edu>

## REGISTRATION FORM or Register online at <http://ctc.osu.edu>, up to March 1

Early Registration \$65/day or \$85 for both days  
 Registration (mailed after Feb. 24) \$80/day or \$105 for both days

Name(s) \_\_\_\_\_

(Please list all names if registering for a company)

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip \_\_\_\_\_ County \_\_\_\_\_

Email \_\_\_\_\_

Farmers: How many acres of cropland? \_\_\_\_\_  
 Crop Consultants: How many acres do you manage? \_\_\_\_\_

One Day Registration \_\_\_\_\_ @ \$65=\$  
 or Wed. \_\_\_\_\_  
 Two Day Registration \_\_\_\_\_ @ \$85=\$

Subtotal \$ \_\_\_\_\_

TOTAL \$ \_\_\_\_\_

WE ARE PLEASED TO ACCEPT

Check One:  Discover  American Express  VISA

Please complete the information below.

Account Number \_\_\_\_\_ Mo. \_\_\_\_\_ Yr. \_\_\_\_\_  
 Expiration Date

Cardholder Signature \_\_\_\_\_ \$ \_\_\_\_\_ Date \_\_\_\_\_

Return with payment to: Conservation Tillage Conference, Allen SWCD, 1601 East Fourth St., Suite B, Lima, Ohio 45804  
 If CTC is cancelled due to unforeseen circumstances, we reserve the right to use funds for next year's conference.

## CTC Program Overview

The main program starts with the General Session at 9:00 Tuesday. Awards will be presented by *Ohio Farmer* magazine and Ohio Certified Crop Advisers. David Montgomery (U. of Washington), author of “Dirt” and “Growing a Revolution: Bringing our Soil back to life,” will be the keynote speaker.

A 2-day special program, **Healthy Soils for Healthy Waters (HSHW)**, will begin at 8:00 a.m. in the Chapel. The **Nutrient Management** session also starts at 8:00. Both sessions will break for David Montgomery’s presentation.

Starting at 10:30, four concurrent sessions take over. The Tuesday program includes **Corn University** and **Precision Ag & Digital Technologies**. The sessions will end about 5:30 p.m.

The Wednesday lineup of concurrent sessions includes: the second day of **HSHW; Soybean School; Water Quality Research and BMPs; Alternative Crops** (half day); and **Slugs, voles and other varmints** (half day). The HSHW and Water Quality Research sessions start at 8:00, and the other two will start at 8:30. Sessions will end about 4:30 p.m.

**CCA credits** will be available, with an emphasis on Soil & Water, Nutrient Management, and Crop Management. We expect 400 crop consultants to attend. The Ohio Certified Crop Adviser of the Year will be honored at the start of the General Session, and the *Ohio Farmer* magazine will honor Master Farmers.

Our primary audience is farmers, but we provide CCA credits as an extra benefit for crop consultants. **Certified Livestock Manager (CLM) credits** will be available. Details will be posted in February.

The full program is online at: [ctc.osu.edu](http://ctc.osu.edu). Look for changes/additions in speakers and topics.

The **Healthy Soils for Healthy Waters** program is a continuation of a series that began in Columbus in 2014. The most recent HSHW programs were in Denver (2017) and Memphis (2016). On the first day, overall topics are

Building Soil Health, Regenerative Agriculture, and Healthy Foods from Healthy Soil. Fifteen speakers and panelists include: Barry Fisher (NRCS); David Brandt (Farmer); Rick Cruse (Iowa State U., on the Economics of Erosion); Rafiq Islam (OSU); David Montgomery (on practices that bring soil back to life); and Britt Burton-Freeman (on Healthy Foods and Nutrition). A panel discussion on Federal Policy includes: Ann Bartuska (USDA), Bill Richards, Fred Yoder, and (maybe) Bill Northey. An industry panel on Healthy Foods includes reps from MillerCoors, McDonald’s, and Bill Knapke of Cooper Farms.

**Corn University** will feature Extension Specialists including: Emerson Nafziger (Illinois); Pierce Paul (OSU); Peter Thomison (OSU) and other Extension Corn Specialists.

The **Nutrient Management** session has 10 topics (7.5 hours total): Drag hose manure results (Glen Arnold, OSU); Good, Bad and the Ugly of Manure Applications (Kevin Elder, ODA); Using a spreadsheet to estimate application costs (Terry Mescher, ODA); Legal liability for manure applications (Peggy Hall, OSU); Communicating with your Landowners (Brian Brandt, Farmland Trust); Costs of Tanker Compaction vs Drag hose application (Jason Hartschuh, OSU); Do soils need more Sulfur? (Steve Culman, OSU); Safety with manure storage (Kent McGuire, OSU); Seeding cover crops into corn and soybeans (Bruce Clevenger, OSU); and Climate Change impact on Lake Erie (Aaron Wilson, OSU)

The **Precision Ag & Digital Technologies** session includes a variety of the latest in high tech applications. Topics/ speakers include: Return on Investment using technology and data (Jeremy Wilson, Illinois farmer); Autonomous tractors (Scott Shearer, OSU); VR Fertilizer (John Fulton, OSU); Subsurface placement (Trey Colley, OSU); Pinch row compaction (Andrew Klopfenstein, OSU); APPs to Support Nutrient Management in growing crops (Kaylee Port, OSU); What we’ve learned from Aerial Imaging (John Barker, OSU); and Selecting the best software (an OSU Senior Design Team).

**Day 2 (Wednesday)** features four concurrent sessions.

The **Healthy Soils for Healthy Waters** program focuses on Nutrient Management in the morning and Healthy Water after lunch. Sixteen speakers and panelists include: John Fulton (OSU); Jessica D’Ambrosio (The Nature Conservancy); Tom Buman (Agren); Frank Gibbs (Soil Scientist); Eileen Kladvik (Purdue); Jim Hoorman (NRCS); Jay Martin (OSU); Guy Swanson (Exactrix); Merrin Macrae (U. of Waterloo); and four with USDA-ARS (Emily Duncan, Chad Penn, Doug Smith, Mark Williams). Topics include application of fertilizer and manure in a manner to reduce nutrient loss to streams, and how healthy soils improve infiltration and reduce runoff. A water quality panel discussion will cover the pros and cons of earthworm holes and other macropores.

**Soybean School** will feature: Emerson Nafziger (U. of Illinois); Shawn Conley (U. of Wisconsin); John Obermeyer, (Entomologist, Purdue U.); Bill Johnson (Weed Specialist, Purdue U.); Laura Lindsey (OSU); and Barry Ward (Economist, OSU). Topics include variable rate seeding, economics of corn vs. soybeans, late season insect control, and managing herbicide resistant weeds.

The session on **Water Quality Research and BMPs** will feature nine speakers including: Jane Frankenburger (Purdue), Stephen Jacquemin (Wright State U.); Steve Davis (NRCS); Lindsay Pease (ARS); Doug Smith (ARS); Brittany Hanrahan (ARS); Libby Dayton (OSU); and Mark Fritz.

Two half-day sessions have not been completed: **Alternative crops** (morning); **Slugs, voles and other varmints** (afternoon).

Program updates will be posted on the website: [ctc.osu.edu](http://ctc.osu.edu).

Connect with us on **Facebook: Conservation Tillage and Technology Conference**.

## Conservation Tillage & Technology Conference

**Tuesday-Wednesday  
March 6-7, 2018**

~60 presenters

~12 hours of *Nutrient Management*

~12 hours of *Soil & Water*

~12 hours of *Crop Management*

*Healthy Soils for Healthy Water,*  
(2 days, starting at 8:00 am Tues.)

*Corn University (Tues.)*

*Nutrient Management (starting at 8:00 am Tues.)*

*Precision Ag & Digital Technologies (Tues.)*

*Soybean School (Wed.)*

*Alternative Crops (Wed. morning)*

*Slugs, voles, and other varmints (Wed. afternoon)*

*Water Quality Research and BMPs (Wed.)*

*Speakers from 8 universities*

*Farmer, industry & USDA speakers*

### Certified Crop Advisers (CCA)

The preferred sign-in during each presentation will be by an app on your smart phone. Limited sign in sheets will be available. (Links to download an app are at: [ctc.osu.edu](http://ctc.osu.edu))

### Major Supporters

- *Roundup Ready Xtend Crop System*
- *Ohio Corn Marketing Program*
- *Ohio Soybean Council*
- *Ag Credit*
- *Seed Consultants*
- *Farm Science Review*
- *Wingfield Crop Insurance*