

# Conservation Tillage & Technology Conf. 2013

## March 5-6

TUESDAY, MARCH 5

(Note: Cover Crops concurrent session in Chapel, starting at 8:00)

Room A **General Session**      **Sponsored by John Deere**

(video link to Room B and Chapel)

(Assistants: Gary Wilson, Adam Shepard, Debbie Brown)

**9:30 Welcome**

Randall Reeder, OSU Ext. Ag. Engineer (retired)

9:35 Thriving in times of extreme weather patterns

**Jerry Hatfield, USDA-ARS, Ames, Iowa**

10:15 **Ohio CCA Award presentation** (Ohio CCA President Tim Berning)

**Ohio Master Farmer Awards** (Tim White, Ohio Farmer magazine)

**10:45 Move to Concurrent sessions**

Room A **Corn University**      **Sponsored by Dekalb/Asgrow**

Moderator: Peter Thomison (Assistants: Kent McGuire, Adam Shepard, Debbie Brown)

11:00 Seeding rates for maximum yield

**Emerson Nafziger, U. of Illinois**

12:00 Lunch

1:15 Planter set-up for maximum yields

**Paul Jasa, U. of Nebraska**

2:15 The 2012 growing season and new tools for managing drought

**Peter Thomison, OSU**

3:15 Break

3:35 On-Farm Research: Nuts, Bolts and other Practical Issues

**Bob Nielsen, Purdue**

4:35 Q&A Discussion with **all 4 speakers**

5:35 Adjourn

## **Tuesday Room B**

Moderators: Gary Wilson, John Smith, Greg LaBarge

11:00 Fitting together the pieces of the Agronomic Puzzle for Extreme Weather  
Presentation by **Jerry Hatfield, USDA-ARS, Ames, Iowa**  
Reaction and discussion: **Bruce Clevenger, (OSU Extension); Alan Sundermeier, (OSU Extension); David Brandt, No-till farmer; and Joe Nester, Nester Ag Management**

12:15 LUNCH

## **Room B Advanced Scouting Techniques**

Moderators: Harold Watters, Gary Wilson, John Smith, Greg LaBarge

- 1:30 Identifying stress in corn and how to plan for 2013  
**Jonah Johnson, Pioneer Agronomist**
- 2:00 Corn nematode survey of NW Ohio  
**Greg LaBarge, Extension Field Agronomist and Alan Sundermeier, OSU Extension AgNR Educator, Wood County**
- 2:30 Using gypsum to improve soil quality and water infiltration rates  
**Joe Nester, Nester Ag Management, Bryan, OH**
- 3:00 4r Retailer Third Party Certification  
**Doug Busdecker, The Andersons; and John Oster, Morral Companies**
- 3:30 Break
- 3:45 Can you CNMP?  
**Mark Wilson, owner and consultant, Land Stewards Inc.**
- 4:15 There's an App for that  
**Justin Petrosino, Agronomist, Stewart Seeds**
- 4:45 First Detector Training  
**Amy Stone, OSU Extension, AgNR Educator, Lucas County**
- 5:15 First Detector Updates  
**Amy Stone**
- 5:45 Adjourn

**TUESDAY Chapel Cover Crops Sponsored by Ag Credit**

Moderators: Jim Hoorman, Alan Sundermeier, and Bro. Nick Renner

Note: Certified Livestock Manager (CLM) recertification is available for ALL topics in this session.

8:00 Using Annual Ryegrass and Legumes to Decrease Fertilizer Application and Increase Corn Yields

**Mike Plumer, U. of Illinois**

8:30 Soil demo: the Value of Cover Crops and other Conservation Practices

**Mark Scarpitti, NRCS Ohio**

9:00 Improving Crop Production and Nutrient Management with Cover Crops

**Alan Sundermeier, OSU**

**9:30 Break**

9:35 (General session, Room A) **Dr. Jerry Hatfield**

11:00 A Midwest Strategy for Soil Health and Water Quality

**Barry Fisher, State Agronomist, NRCS Indiana**

11:30 Lunch

Moderators: Jim Hoorman, Florian Chirra, and Bro. Nick Renner

12:45 Biological Soil Testing

**Dr. Rick Haney, USDA-ARS, Temple, Texas** (by webinar)

1:45 Multi-Species Cover Crop Nitrogen Effects on Corn Yields

**David Brandt, no-till farmer, Carroll, OH**

2:15 Continuous Improvement in Soils with Cover Crops and the Effects on Crop Production Efficiency

**Dr. Jerry Hatfield**

2:45 Break

3:00 Mixed Cover Crop Effects on No-till Soil Properties

**Rafiq Islam, Soil Scientist, OSU; Ekrem Aksakal, Visiting Scholar; and David Brandt**

3:30 **Farmer Panel** – New and Established Cover Crop Farmers

**David Brandt, Jeff Duling, and ??**

4:30 Rhizosphere Effects on Improving Soil and Water

**George Derringer, NRCS Ohio**

5:00 Using Cover Crops to Adapt to Extreme Weather Events

**Jim Hoorman, OSU Extension, Putnam County**

**5:30 Adjourn**

**5:30-7:30 Farmer cover crop networking meeting in The Inn at ONU**

(moderated and hosted by CTIC)

(The Ohio No-till Council will meet, ~7:00-9:00 in the Boardroom)

**Room C      Nutrient Management      Sponsored by Gypsoil**

Note: Certified Livestock Manager (CLM) recertification is available for ALL topics

Moderators: Glen Arnold, Amanda (Meddles) Douridas,

11:00 Rating the value of Micronutrients

**Ed Lentz, OSU Extension, Hancock County**

11:30 Nutrient Management with Cover Crops

**Harold Watters, OSU Extension Field Specialist**

12:00 The 7 R's (not just 4) of Nutrient Management

**Jim Boak, Salford Manufacturing**

12:30 Lunch

1:45 Smart tools for better nutrient management

**Amanda Douridas, OSU Extension**

2:15 Agronomic Nutrient Management I: Soil Sampling/Test Interpretation

**John Grove, U. of Kentucky**

3:15 Break

3:35 Techniques to improve Nitrogen Management

**James Camberato, Purdue**

4:35 Agronomic Nutrient Management II: Plant Tissue Sampling/Analysis Interpretation. **John Grove, U. of Kentucky**

5:35 Adjourn

**WEDNESDAY, MARCH 6** (four concurrent sessions)

**Room A Soybean School**  
**Sponsored by Pioneer and Seed Consultants**

Moderators: Harold Watters; Gary Wilson, Adam Shepard

8:30 Soybeans and Drought: Real Resistance or Just Luck?

**Emerson Nafziger, Crop Production Ext. Specialist, U. of Illinois**

9:30 Breeder x Agronomist Interactions: Exploiting Synergies to Push Soybean Yield

**Shawn Conley, Soybean and Wheat Ext. Specialist, U. of Wisconsin**

10:30 Break

10:45 The role soybean seeding rates play in Integrated Weed Management to combat resistance?

**Vince Davis, Cropping Systems Weed Scientist and Extension Specialist, Dept. of Agronomy, U. of Wisconsin**

11:45 Lunch

Moderators: Harold Watters; Eric Richer, Gene McCluer

1:00 2013 Ohio Soybean Production Guidelines

**Laura Lindsey, OSU Soybean & Small Grain Specialist, Hort. & Crop Science**

2:00 SCN Scouting, Disease Interactions, and Management

**Terry Niblack, Professor and Chair, Plant Pathology & Nematology, OSU**

3:00 Break

3:20 Late Season Insects Might be Stealing Yield

**Ron Hammond, OSU/OARDC Extension Entomology**

3:50 The Latest on Soybean Fertility

**Laura Lindsey**

4:20 Adjourn

## Room B WED. Nutrient Management Sponsored by Gypsoil

Note: Certified Livestock Manager (CLM) recertification is available for all except the last (gypsum) topic.

Moderators: Glen Arnold and Amanda Meddles, Florian Chirra

8:30 Systems approach to Cover Crops  
**Steve Prochaska, OSU Extension Field Specialist**

9:00 Manure Injection Research in PA  
**Robert Meinen, Penn State U.**

10:00 Break

10:20 Manure Storage Safety Guidance for Managers and Workers  
**Robert Meinen, Penn State U.**

10:50 Precision Application of Swine Manure in growing Corn  
**Glen Arnold, OSU Extension Field Specialist**

11:45 Lunch

Moderators: Glen Arnold and Amanda Meddles, Ted Wiseman

1:00 Tillage and Nutrient Management Systems for Improved Drought Tolerance  
**Tony Vyn, Purdue**

2:00 What is Ohio Agriculture waiting for? Drainage Water Management and Bioreactor Technologies are Available NOW  
**Larry Brown, OSU Extension Ag. Engineer**

2:30 Where is Nutrient Management headed in Ohio? (Open forum discussion)  
**Larry Brown, Glen Arnold, and Greg LaBarge, OSU Extension Field Specialist**

3:00 Break

3:20 Gypsum as a Source of Sulfur for Improved Crop Performance  
**Warren Dick, School of Natural Resources and Environment, OSU-OARDC**

4:20 Adjourn

## Room CHAPEL WEDNESDAY Water Quality (and extreme weather)

Note: Certified Livestock Manager (CLM) recertification is available for the 8:30 talk, and all topics from 11:20 to 4:20.

Moderators: Jim Hoorman, Bruce Clevenger, Jim Lopshire

- 8:30 Cover Crops and Water Quality  
**Mike Plumer, U. of Illinois**
- 9:00 Survey Data: Farmer Perceptions of Extreme Weather Events  
**Bruce Clevenger, OSU Extension, Defiance County**
- 9:30 How Weather Affects Agricultural Production  
**Alan Sundermeier, OSU Extension, Wood County**
- 10:00 Climate Change and 21st Century Agriculture  
**Rafiq Islam, Soil Scientist, OSU Extension, South Centers**
- 10:30 Break
- 10:50 Adapting Agriculture and Cropping Practices to Extreme Weather  
**Jim Hoorman**
- 11:20 Tillage and N management for improved air and soil quality in corn production  
**Tony Vyn, Purdue**
- 11:50 Water Quality: Why we need 4 R's and more  
**Kevin Elder, Ohio Dep't of Agriculture**

12:20 Lunch

Moderators: Jim Hoorman, Alan Sundermeier, Bro. Nick Renner, Curtis Young

- 1:30 Phosphorus and Water Quality (1.5 SW)  
N and P Movement through runoff and tile  
**Dr. Kevin King, USDA-ARS, Columbus, OH**  
P Research and P-Index Models  
**Dr. Libby Dayton, OSU**
- 3:00 Break
- 3:20 Denitrifying bioreactors for nitrate removal from tile drainage  
**Ehsan Ghane, Ph.D. student, OSU Ag. Engineering**
- 3:50 Yield increases from controlled drainage  
**Norm Fausey, USDA-ARS, Columbus, OH**
- 4:20 Adjourn

**Room C WEDNESDAY (morning) No-till, strip-till and soil quality  
Sponsored by: FHR Nutrient Management**

Note: Certified Livestock Manager (CLM) recertification is available for the 10:45 talk only.

Moderators: Mike Gastier, Eric Richer, Curtis Young

- 8:30** Planter Adjustment for peak performance  
**Bill Lehmkuhl, Precision Agri-Services, Minster, OH**
- 9:30 Strip Tillage: A Conservation Option for Heavy, Cold Soils  
**Jodi DeJong-Hughes, Extension Specialist, U. of Minnesota**
- 10:30 Break
- 10:45 Soil Quality demo; the Value of Conservation Practices  
**Mark Scarpitti, State Agronomist, NRCS Ohio**
- 11:15 Controlled traffic and compaction  
**Randall Reeder, OSU Extension Ag. Engineer (retired) and  
Rafiq Islam, Soil Scientist, OSU Extension**
- 11:45 Fuel costs for tillage  
**Barry Ward, OSU Extension, Ag Economics**
- 12:15 LUNCH

**Room C Wednesday (afternoon) Seeding Technology  
Sponsored by: FHR Nutrient Management**

Moderators: Scott Shearer, Chair, Food, Ag. and Biological Engineering, OSU. Plus Mike Gastier, Mark Mechling, Mike Sword

- 1:45 Perfecting no-till planting equipment  
**Paul Jasa, U. of Nebraska**
- 2:45 Break
- 3:05 Seeding Technology Panel: **Scott Shearer, Moderator**  
Maximizing yield potential at planting time: **Peter Thomison, OSU**  
Working with variable rate prescriptions: **Doug Houser, Services Appl. Manager, Pioneer**  
Machine implications of prescriptions: **Jamie Bultemeier, John Deere**
- 4:35 Adjourn**