

Conservation Tillage Conference, March 7-8, 2017

Day 1 March 7

GENERAL SESSION Room A, Sponsored by Farm Science Review

9:00 Welcome and Awards (Randall Reeder)

Ohio Farmer magazine: Master Farmers of the Year

Ohio Certified Crop Advisers: CCA of the Year

9:30 Keynote Speaker (Paul Jasa, Ag. Engineer, U. of Nebraska):

Systems Approach to No-till and Soil Health

10:15 Break

Chapel: Advanced Cover Crops (Alan Sundermeier and Jim Hoorman)
Sponsored by **AgCredit**

- 8:00 Soil classification changes due to soil health practices
Don McClure, NRCS, retired
- 8:30 Selecting & Managing short season crop hybrids for cover crop planting
Peter Thomison, OSU Extension Corn Specialist
- 9:30 General session (remote from Room A) Keynote by Paul Jasa
- 10:15 Break
- 10:30 Managing vole pests in cover crop residue
Dave Brandt, no-till farmer; and Alan Sundermeier, OSU
- 11:00 NRCS soil health standards and recommendations
Jim Hoorman, USDA-NRCS
- 11:30 Lunch
- 12:45 Evaluating Cropping systems with cover crop resources
Anna Morrow, Midwest Cover Crop Council
- 1:15 Innovative cover crop interseeder technology
Alex Lindsey, OSU; and Ryan Hayden, OSU-ATI
- 1:45 Soil Health and cover crop Economics
Rodney Rulon, no-till farmer, Indiana; and Jim Hoorman, USDA-NRCS
- 2:45 Break
- 3:05 Correcting tillage effects with cover crops
Paul Jasa, U. of Nebraska
- 3:35 Slug management recommendations in no-till and cover crop systems
Kelley Tilmon, OSU Extension Entomologist
- 4:05 Novel cover crop practices to manage soil degradation, Farmer Panel:
Sarah Noggle, OSU, David Brandt, and Bret Margraf
- 5:05 Adjourn

Room A: Corn University (Peter Thomison) Sponsored by Dekalb/Asgrow

10:30 Equipment Considerations for No-till Corn

Paul Jasa, Ag. Engineer, University of Nebraska

11:30 The New Era in Weed Control

Rod Stevenson, DeKalb/Asgrow Xtend Crop System

12:00 Lunch

1:15 Managing Pests with Mother Nature

Jonathan Lundgren, Agroecologist & Entomologist, Blue Dasher Farm, S. Dakota

2:15 Aiming for a Perfect Ear

Roger Elmore, University of Nebraska

3:15 Break

3:35 Variable Rate Technology for Corn Management

Emerson Nafziger, University of Illinois

4:35 Taking a Second Look at Narrow Row Corn

Peter Thomison, OSU Extension Specialist

5:05 Q&A Discussion with the speakers

5:35 Adjourn

Room B: Manure Nutrient Management (Glen Arnold & Amanda Douridas)
Sponsored By AgXplore International

Note: The General Session will be piped into this room, 9:00 to 10:15

- 10:30 Drag hose manure plots/OARDC plots & availability of toolbars for farmers for the 2017 crop season
Sam Custer, OSU Extension, and Glen Arnold, OSU Extension
- 11:30 Dairy & Beef manure plot results from 2016
Eric Richer, OSU Extension
- 12:00 Poultry Manure-From Farm to Field
Mike Cook, Innovative Ag Management
- 12:30 Lunch
- 1:45 Common mistakes made with livestock manure application
Kevin Elder, ODA
- 2:15 Building Relationships: Applicator, Livestock Producer, and Crop Farmer
Eric Dresbach, WD Farms
- 2:45 What to expect with ODA inspections
Dan Bruner, ODA
- 3:15 Break
- 3:35 Balancing for soil nutrients when using manure
Francis Springer, ODA
- 4:05 Stratification of Phosphorus in the Western Lake Erie Soils & Phosphorus Loading in the Western Basin
David Baker, Heidelberg University
- 4:35 Nitrogen management when using livestock manure
Jim Camberato, Purdue

Room C: Technologies to Support On-Farm Decisions (John Fulton)

- 10:30: APPs to help with Nutrient Management in Ohio
Kaylee Port, OSU ■ OSU Apps, and
Jordan Hoewischer, Ohio Farm Bureau ■ ONMRK App
- 11:15: The Implications of on-farm APPs by John Deere
Jay Witkop and Nathan Jenkins, John Deere
- 11:45: Using technology to setup and conduct on-farm research
Ryan Oehler, Ag Leader Technology
- 12:15: Lunch
- 1:30: Tips, Tricks, Trials and Tribulations of On-Farm Nutrient Research
Josh McGrath, U. of Kentucky
- 2:30: Setting up and conducting on-farm studies
Mike Hannewald, Beck's Hybrids,
- 3:00: On-farm research and data collection to support
Elizabeth Hawkins, OSUE
- 3:30: Break
- 3:50: Conducting on-farm research: setup, protocol and results
Steve Culman, OSU Extension Nutrient Specialist
- 4:20: Identifying drainage tiles with drones
Rob Freeland, U. of Tennessee, and Barry Allred, USDA-ARS
- 5:00: Imagery for decision making
Nate Taylor, AerOptic
- 5:30 Adjourn

Day 2 March 8

Chapel: Quantifying soil health (Steve Culman and Rafiq Islam)

Sponsored by **AgCredit**

- 8:00 OSU soil health initiative, management resources
Alan Sundermeier, OSU Ext., and Vinayak Shedekar, OSU South Centers
- 8:30 Overview of commercial soil health tests
Steve Culman, OSU Soil Fertility
- 9:00 Soil balance relationships, Ca/Mg ratios
Vijay Chaganti, OSU
- 9:30 Break
- 9:50 Corn N rates and soil N uptake measurements
Steve Culman
- 10:20 OSU soil health assessment package
Rafiq Islam, OSU Soil Scientist, South Centers
- 10:50 Beneficial microbes and soil-plant microbiomes
Ye Xia, OSU
- 11:30 Lunch
- 12:45 The livestock under your feet: Managing soil microbes for soil quality and plant health.
Shawn Lucas, Kentucky State U.
- 1:45 Farms and pollinators: why farmers should care about the bees
Jonathan Lundgren, Agroecologist, Blue Dasher Farm Initiative, South Dakota
- 2:45 Break
- 3:05 Soluble reactive phosphorus; soil sorption, storage, and release
Rafiq Islam, OSU
- 3:35 How cover crop mixtures enhance mycorrhizae colonization
Jay Brandt, Walnut Creek Seeds; and Jim Hoorman, USDA-NRCS
- 4:05 NRCS soil health policy update
Jim Hoorman, USDA-NRCS
- 4:35 Adjourn

Room A: Soybean School (Harold Watters)

Sponsored by Seed Consultants

“The Profitability & Economics of Soybean Production in 2017”

- 8:30 Does fertilizer nitrogen make high soybean yields even higher?
Emerson Nafziger, Agronomist, University of Illinois
- 9:30 What inputs have the greatest ROI in a low margin year?
Shawn P. Conley, Soybean Specialist, U. of Wisconsin
- 10:30 Break
- 10:45 Soybean vs. Corn Profitability & the Future of Midwest Crop Acres,
Matt Roberts, Agricultural Economist, KernMantle Group
- 11:45 Lunch
- 1:00 Weed Management for Soybeans in 2017
Mark Loux, OSU Weed Scientist
- 2:00 Soybean Profitability: Autopilot or Manual Drive
Shaun Casteel, Soybean Agronomist, Purdue U.
- 3:00 Break
- 3:20 What's Holding You Back From High Yielding Soybeans?
Laura Lindsey, Soybean Specialist, OSU
- 4:20 Adjourn

Room B:

Conducting On farm Research: Does it Really Work?

(half day); (Curtis Young and Bruce Clevenger)

8:00 The nuts and bolts of on-farm research on N rates and plant population.

Jim Camberato, Purdue

9:00 Sorting through the Numbers: Science versus Sales?

Elizabeth Hawkins, OSU

10:00 Break

10:20 On-farm research: Follow the K.I.S.S. rule

Curtis Young, OSU

10:50 Conducting on-farm research: setup, protocol and results

Steve Culman, OSU Extension Nutrient Specialist

12:00 Lunch

Transitioning to No-till

1:15 Transitioning to no-till: Farmer/CCA Panel

Dave Brandt, Bill Richards, Bret Margraf, Bill Lehmkuhl

2:45 Weed management and weed population changes when transitioning from conventional tillage to no-till

Jeff Stachler, OSU

3:15 Break

3:35 Changes in insect issues in no-till

Curtis Young, OSU

4:05 Fertility management from conventional tillage to no-till

Ed Lentz, OSU

4:35 Adjourn

Room C: Conservation Assessment and Planning (Greg LaBarge and
Jocelyn Henderson) Sponsored by **The Nature Conservancy**

- 8:30 Results of Edge of Field Research
Kevin King, USDA-ARS
- 9:00 Benefits of Drainage Water Management
Lindsay Pease, USDA-ARS
- 9:30 Phosphorous movement as it relates to soil stratification
Emily Duncan, USDA-ARS
- 10:00 Tile Mapping with UAVs
Barry Allred, USDA-ARS
- 10:30 Break
- 10:50 Providing NRCS Planning Service as an Independent Contractor, the TSP
program
Eric Schwab, USDA-NRCS
- 11:20 What the Revised P index will look like
Libby Dayton, OSU
- 11:50 Using an NMP to identify practice priorities
Greg LaBarge, OSU
- 12:20 Lunch
- 1:30 Conservation Best Management Practices
Justin McBride, ODA
- 2:00 Conservation Assistance Programs
Megan Burgess, USDA-NRCS
- 2:30 Using Ag Solver's Profit Zone Manager to focus on Conservation
Michael Retterer, Pheasants Forever
- 3:00 Break
- 3:20 Nutrient Application Regulations: Focusing on SB1 and SB 150
Jocelyn Henderson and Kip Studer, ODA-DSWC
- 4:20 Adjourn