Conservation Tillage Conference, March 6-7, 2018
DRAFT February 2

CCA Credits requested: March 6th - NM 7.7, SW 4.5, PM 1.0, CM 11.5, PD 0.5
March 7th - NM 3.0, SW 8.5, PM 5.0, CM 8.0

Day 1 March 6

Other sponsors: Exactrix, AgExplore, and TKI

Room A: GENERAL SESSION
Farm Science Review
9:00 Welcome and Awards (Ohio Farmer magazine and Ohio Certified Crop Advisers)
9:30 Keynote: “From Dirt to Regenerating our Soils”
   David Montgomery, U. of Washington
10:15 Break

Room A: Corn University (Peter Thomison) (DeKalb Asgrow)
10:30 Tools for managing Nitrogen
   Newell Kitchen, USDA-ARS, Missouri
12:00 Lunch
1:15 Managing Corn for high yield and environmental stewardship while controlling costs.
   Jeff Coulter, U. of Minnesota
2:15 Managing inputs and planting date for high economic corn yields
   Emerson Nafziger, U. of Illinois
3:15 Break
3:35 Corn Disease Issues and Solutions
   Pierce Paul, OSU.
4:35 Taking a closer look at a key management practice
   Peter Thomison, OSU
5:35 END

Dicamba Training for Certification. Extra sessions. Both days, 1:00 to 2:30, Board Room (upstairs, near Room A). Provided for applicators attending CTC.
To register for one of these Monsanto-provided dicamba application requirements training events, go to: www.roundupreadyxtend.com/training CCA credits: 1.5 PM

Room B: Nutrient Management (Glen Arnold & Amanda Douridas) (The Andersons)
8:00 What we learned from our manure drag hose plots in 2017. Plus availability of three manure sidedress toolbars in 2018
   Glen Arnold, OSU
9:00 Staying Safe: Understanding Manure Storage Gases
   Kent McGuire, OSU
9:30  Remotely, General session speaker, David Montgomery, from Room A
10:15  Break
10:30  Legal liability aspects of manure applications
      Peggy Hall, OSU
11:00  Which Soils should respond to Sulfur Applications
      Steve Culman, OSU, and Sakthi Kumaran Subburayalu, Central State U.
12:00  Interseeding cover crops into corn and soybeans
      Bruce Clevenger, OSU, and John Rethmel, farmer
12:30  Lunch
1:45   The Good, Bad and Ugly of Manure Applications in 2017
      Kevin Elder, Ohio Dept. of Ag.
2:15   Using a Spreadsheet to estimate costs of manure; hauling distances
      Terry Mescher, Mercer SWCD
2:45   Costs of Tanker Compaction vs Drag hose application
      Jason Hartschuh, OSU
3:15   Break
3:35   Climate Change, big rains and impact on Lake Erie
      Aaron Wilson, OSU
4:35   Communicating with your Landowners
      Brian Brandt, American Farmland Trust
5:05   END

Room C: Precision Ag & Digital Technologies  (John Fulton and Elizabeth Hawkins)

10:30  APPs to Support Nutrient Management for Crop Production
      Kaylee Port, OSU
11:15  ROI when using technology and data
      Jeremy Wilson, Illinois farmer
12:15  Lunch
1:30   Pinch-row compaction from tractors and planters considering field variability
      Andrew Klopfenstein, OSU
2:00   Autonomy in agriculture
      Scott Shearer, OSU
3:00   Selecting Ag GIS Software
      OSU Ag Systems Management Senior Design Team
3:30   Break
3:50   What we’ve learned from Aerial Imaging
      John Barker, OSU
4:50   Subsurface Placement: opportunities and considerations
      Trey Colley, OSU
5:20   VR Fertilizer Learnings
      John Fulton, OSU
5:50   END

(Continued)
Tuesday, March 6

Chapel: Healthy Soils for Healthy Water: (Alan Sundermeier +) (AgCredit)

Building Soil Health
8:00 Unlocking the Secrets of the Soil
    Barry Fisher, Region Soil Health Team Leader, USDA-NRCS
8:30 Measuring Soil Characteristics
    Rafiq Islam and Alan Sundermeier, OSU
9:00 Building soil health and organic matter with cover crops and no-till
    David Brandt, No-till farmer, Fairfield County
9:30 Remotely, Gen. Session speaker: David Montgomery, from Room A
10:15 Break
10:30 Why is Conserving Midwest Soil and Water Resources a Global Necessity?
    Rick Cruse, Iowa State University

Regenerative Ag
12:45 The soil health revolution and how innovative farming practices can bring soil back to life while maintaining or improving crop yields.
    David Montgomery, U. of Washington (including David Brandt)
1:45 Federal Policy. Moderator: Larry Clemens, The Nature Conservancy
    Panelists:
    Jim Moseley, former Deputy Secretary, USDA
    Bill Richards, former chief of the USDA-NRCS
    Jack Irvin, Senior Director, State and National Policy, Ohio Farm Bureau

2:45 Break

Healthy Foods from Healthy Soils
3:05 Managing Profitability with Sustainable and Responsible Practices
    Ken Curtis, Illinois Producer
4:05 Healthy Foods and Nutrition

4:35 Industry Panel. Moderator:
    Larry Clemens, Director of North American Agriculture Program, The Nature Conservancy “The Midwest Row Crop Collaborative”
    Marco Ugarte, Sustainability Manager, MillerCoors “Purchasing sustainable barley and the sustainable supply chain”
    Bill Knapke, Environmental Manager, Cooper Farms “Reducing nutrient runoff with turkey production”

5:35 END
Day 2, March 7
CCA Credits requested for March 7th - NM 3.0, SW 8.5, PM 5.0, CM 8.0

Chapel: Healthy Soils for Healthy Waters (AgCredit)
Precision Nutrient Management Moderator: Jessica D’Ambrosio, The Nature Conservancy, Western Lake Erie Basin
8:00 Using precision agriculture and machinery to enhance production and reduce environmental risks
   John Fulton, OSU
8:30 Agricultural systems management and using a direct-injection applicator
   Guy Swanson and Troy Coen, Exactrix Global Systems; Bert Bock, TKI; and Dale Bathurst, producer
9:00 Application of livestock manure to soils to improve N use efficiency
   Emily Duncan, USDA-ARS
9:30 Break
9:50 Using precision ag and technology to meet 4R certification standards
   Logan Haake, 4R Certified Crop Adviser
10:30 Precision Conservation: Helping Farmers Make the Best Conservation Decisions
   Tom Buman, Agren
11:00 Addressing soil test recommendations
   Chad Penn, Soil Scientist, National Soil Erosion Research, USDA-ARS
11:30 Lunch

Healthy Water Moderator: Jessica D’Ambrosio, The Nature Conservancy, Western Lake Erie Basin
12:45 Panel Discussion.
Macropores – are they good or bad for soil and water quality?
   Are earthworms harmful or beneficial?
   Factors and Solutions: (controlled drainage, timing and application methods of fertilizer)
   Frank Gibbs, NRCS, retired
   Jim Hoorman, NRCS
   Doug Smith, ARS
   Mark Williams, ARS
   Merrin Macrae, University of Waterloo
   Eileen Kladivko, Purdue
2:15 Improve soil structure, reduce compaction, and reduce nutrient runoff
   Jim Hoorman, USDA-NRCS
2:45 Break
3:05 Impacts of tile drainage on crop yields and nitrate losses
   Eileen Kladivko, Purdue
3:35 Best management practices to reduce nutrient loading in Ohio
   Jay Martin, OSU
4:05 Closing Thoughts on Healthy Soils for Healthy Waters
   Barry Fisher, USDA-NRCS
4:35 END
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**Room A: Soybean School** (Laura Lindsey and Harold Watters) *(Seed Consultants)*

8:30  Why we grow soybeans in the Corn Belt  
Emerson Nafziger, University of Illinois
9:30  Late season insect problems  
John Obermeyer, Purdue University
10:30 Break
10:45 Key management practices that explain soybean yield gaps across the North Central U.S.  
Shawn Conley, University of Wisconsin
11:45 Lunch
1:00  Resistant weed management in the dicamba era  
Bill Johnson, Purdue University
2:00  Economics in the choice between corn and soybeans  
Barry Ward, Ohio State University
3:00 Break
3:20 Variable rate soybeans  
Laura Lindsey, Ohio State University
4:20 End

**Precision Ag Reviews (PAR)** site was funded and developed by Ohio Soybean farmers due to the continuous changes in precision ag. This site helps farmers make informed decisions and offers a portal for expert advice to be exchanged and shared. Review and read reviews about precision ag equipment. [http://precisionagreviews.com](http://precisionagreviews.com).

**Room B: Water Quality Research and BMPs** (Jocelyn Henderson, Greg LaBarge)

8:00  Water Quality changes in Grand Lake St Marys following the winter application ban & Drainage Water Recycling Project  
Stephen Jacquemin, Wright State Univ.
9:00  Transforming Drainage Project  
Jane Frankenberger, Purdue University
9:30  What the Revised P index will look like  
Libby Dayton, OSU
10:00 Break
10:20 Blind Inlets - Agronomic and Water Quality Performance  
Doug Smith, USDA-ARS
10:50 Western Lake Erie Basin Nutrient Reductions: Goals and Programs to Get There  
Steve Davis, USDA-NRCS
12:00 Lunch
1:15  Effect of rainfall patterns and ground cover on the intensity of surface runoff and tile discharge  
       Lindsay Pease, USDA-ARS
1:45  Watershed scale water quality impacts of cover crop adoption in a two-stage ditch system  
       Brittany Hanrahan, USDA-ARS
2:15  4R Nutrient Stewardship Certification Program  
       Mark Fritz, Ohio AgriBusiness Association
2:45  Water Quality Tradeoffs when Adopting Conservation Practices  
       Doug Smith, USDA-ARS
3:15  Break
3:35  Inspections and Recordkeeping requirements for Certified Ag Fertilizer Applicators  
       Greg LaBarge, OSU
4:05  END

Room C:
½ day: Alternative Crops (Curtis Young)
8:30  Hoop house specialty crop production.  
       Brad Bergefurd, OSU South Centers
9:00  Manage Woodlots for income.  
       Dave Aspley, OSU
9:30  Barley and Hops production.  
       Brad Bergefurd, OSU
10:30 Break
10:50 Getting started in honey bees.  
       Barb Bloetscher, Ohio Dept of Agriculture
11:20 Berry production: Blueberries and brambles.  
       Gary Gao, OSU South Centers
12:20 Lunch

Room C:
Pest Management of the Atypical Pests: Slugs, voles and more (Curtis Young)
1:35  Slugs in Conservation Tillage and Cover Crops: Identification, Biology and Management Options.  
       John Obermeyer, IPM Specialist, Purdue University.
2:35  Voles, not Moles.  
       Curtis Young, OSU, Van Wert County Extension Educator,
3:05  Break
3:20  Big Birds (Geese and Turkeys) that Damage Field Crops.  
       Jeff Pelc, USDA Wildlife Services.
3:50  What are the steps in getting a wildlife (deer) damage control permit?  
       Bob Ford, ODNR Division of Wildlife.
4:20  Invasive Plant Management around the Farm.  
       Curtis Young, OSU
4:50  END