TUESDAY, MARCH 5

Room A  General Session (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  1.0   CM1c
   Presentation by Jerry Hatfield
   Reaction and discussion: Bruce Clevenger, Alan Sundermeier, David
   Brandt, and Joe Nester

12:15 LUNCH

   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’s Seeds

4:45 First Detector Training
   Amy Stone, OSU Extension, AgNR Educator, Lucas County

5:15 First Detector Updates
   Amy Stone, OSU Extension, AgNR Educator, Lucas County

5:45 Adjourn
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Duration</th>
<th>Room</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Using Annual Ryegrass and Legumes to Decrease Fertilizer Application and Increase Corn Yields</td>
<td>Mike Plumer, U. of Illinois</td>
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<td>NM1f</td>
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<tr>
<td>8:30</td>
<td>Soil demo: the Value of Cover Crops and other Conservation Practices</td>
<td>Mark Scarpitti, NRCS Ohio</td>
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<td>9:00</td>
<td>Improving Crop Production and Nutrient Management with Cover Crops</td>
<td>Alan Sundermeier, OSU</td>
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<td>9:30</td>
<td>Break</td>
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<tr>
<td>9:35</td>
<td>(General session, Room A) Dr. Jerry Hatfield</td>
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<td>11:00</td>
<td>A Midwest Strategy for Soil Health and Water Quality</td>
<td>Barry Fisher, NRCS Indiana</td>
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<td>11:30</td>
<td>Lunch</td>
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<tr>
<td>12:45</td>
<td>Biological Soil Testing</td>
<td>Dr. Rick Haney (by webinar)</td>
<td>1.0</td>
<td>SW1</td>
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<td>1:45</td>
<td>Multi-Species Cover Crop Nitrogen Effects on Corn Yields</td>
<td>David Brandt</td>
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<td>CM4e</td>
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<td>2:15</td>
<td>Continuous Improvement in Soils with Cover Crops and the Effects on Crop Production Efficiency</td>
<td>Dr. Jerry Hatfield</td>
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<td>2:45</td>
<td>Break</td>
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<tr>
<td>3:00</td>
<td>Mixed Cover Crop Effects on No-till Soil Properties</td>
<td>Rafiq Islam, Ekrem Aksakal, and David Brandt</td>
<td>0.5</td>
<td>SW8c</td>
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<td>3:30</td>
<td>Farmer Panel – New and Established Cover Crop Farmers</td>
<td>David Brandt, Jeff Duling</td>
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<td>4:30</td>
<td>Rhizosphere Effects on Improving Soil and Water</td>
<td>George Derringer, NRCS</td>
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<td>SW5</td>
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<td>5:00</td>
<td>Using Cover Crops to Adapt to Extreme Weather Events</td>
<td>Jim Hoorman</td>
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<td>CM1c</td>
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Room C  Nutrient Management

Moderators: Glen Arnold, Amanda (Meddles) Douridas,

11:00  Rating the value of Micronutrients
      Ed Lentz, OSU Extension  0.5  NM1f

11:30  Nutrient Management with Cover Crops
      Harold Watters, OSU Extension  0.5  NM1d

12:00  The 7 R’s (not just 4) of Nutrient Management
      Jim Boak, Salford  0.5  NM4a

12:30  Lunch

1:45   Smart tools for better nutrient management
      Amanda Douridas, OSU Extension  0.5  NM1f

2:15   Agronomic Nutrient Management I: Soil Sampling/Test Interpretation
      John Grove, U. of Kentucky  1.0  NM1c

3:15   Break

3:35   Techniques to improve Nitrogen Management
      James Camberato, Purdue U.  1.0  NM8e

4:35   Agronomic Nutrient Management II: Plant Tissue Sampling/Analysis Interpretation.
      John Grove, U. of Kentucky  1.0  NM2e

5:35   Adjourn
2013 CTC, Ada, Ohio Northern University

WEDNESDAY, MARCH 6  (four concurrent sessions)

Room A  Soybean School  -  Sponsored by  Pioneer and Seed Consultants

Moderators: Harold Watters; Gary Wilson, Adam Shepard

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<thead>
<tr>
<th>Time</th>
<th>Area</th>
<th>Education</th>
<th>Topic</th>
<th>Time</th>
<th>Area</th>
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<tbody>
<tr>
<td>8:30</td>
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<td>1.0</td>
<td>Soybeans and Drought: Real Resistance or Just Luck?</td>
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<td>CM1d</td>
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<tr>
<td>9:30</td>
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<td>1.0</td>
<td>Breeder x Agronomist Interactions: Exploiting Synergies to Push Soybean Yield</td>
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<td>CM1a</td>
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<td>10:45</td>
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<td>1.0</td>
<td>The role soybean seeding rates play in Integrated Weed Management to combat resistance?</td>
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<td>11:45</td>
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<td>Lunch</td>
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<td>1:00</td>
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<td>1.0</td>
<td>2013 Ohio Soybean Production Guidelines</td>
<td>1.0</td>
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<td>2:00</td>
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<td>1.0</td>
<td>SCN Scouting, Disease Interactions, and Management</td>
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<td>CM1d</td>
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<td>Break</td>
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<td>3:20</td>
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<td>0.5</td>
<td>Late Season Insects Might be Stealing Yield</td>
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<td>3:50</td>
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<td>0.5</td>
<td>The Latest on Soybean Fertility</td>
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<td>4:20</td>
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<td>Adjourn</td>
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CCA CEU request

Education

Time

Area
Conservation Tillage Technology Conf.  March 6, 2013

Room E  WEDNESDAY  Nutrient Management

Moderators: Glen Arnold and Amanda Meddles, Florian Chirra

8:30 Systems approach to Cover Crops  1.0  CM4e
   Steve Prochaska, OSU Extension

9:00  Manure Injection Research in PA  1.0  NM8c
   Robert Meinen, Penn State U.

10:00 Break

10:20 Manure Storage Safety Guidance for Managers and Workers  0.5  NM6
   Robert Meinen, Penn State U.

10:50 Precision Application of Swine Manure in growing Corn  1.0  NM8e
   Glen Arnold, OSU Extension

11:45 Lunch

Moderators: Glen Arnold and Amanda Meddles, Ted Wiseman

1:00  Tillage and Nutrient Management Systems for Improved Drought Tolerance  1.0  NM8c
   Tony Vyn, Purdue

2:00  Bioreactor Technologies Available Now  0.5  NM2g
   Larry Brown, OSU

2:30 Where is Nutrient Management headed in Ohio? (Open forum discussion)  0.5  NM2g
   Larry Brown, Greg LaBarge, Glen Arnold

3:00 Break

3:20  Gypsum as a Source of Sulfur for Improved Crop Performance  1.0  NM1f
    Warren Dick, School of Natural Resources and Environment, OSU-OARDC

4:20 Adjourn
Room CHAPEL

WEDNESDAY  Water Quality (and extreme weather)
Moderators: Jim Hoorman, Bruce Clevenger, Jim Lopshire

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<td>Mike Plumer, U. of Illinois</td>
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<td>9:00</td>
<td>Survey Data: Farmer Perceptions of Extreme Weather Events</td>
<td>Bruce Clevenger</td>
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<tr>
<td>9:30</td>
<td>How Weather Affects Agricultural Production</td>
<td>Alan Sundermeier</td>
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<td>10:00</td>
<td>Climate Change and 21st Century Agriculture</td>
<td>Rafiq Islam</td>
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<td>10:30</td>
<td>Break</td>
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<tr>
<td>10:50</td>
<td>Adapting Agriculture and Cropping Practices to Extreme Weather</td>
<td>Jim Hoorman</td>
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<td>11:20</td>
<td>Tillage and N management for improved air and soil quality in corn production</td>
<td>Tony Vyn, Purdue</td>
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<td>11:50</td>
<td>Water Quality: Why we need 4 R’s and more</td>
<td>Kevin Elder, Ohio Dep’t of Agriculture</td>
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<td>12:20</td>
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<td>1:30</td>
<td>Phosphorus and Water Quality</td>
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<td>N and P Movement through runoff and tile</td>
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<td>Dr. Kevin King, USDA-ARS, Columbus, OH</td>
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<td>and P Research and P-Index Models</td>
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<td>Dr. Libby Dayton, OSU</td>
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<td>3:00</td>
<td>Break</td>
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<tr>
<td>3:20</td>
<td>Denitrifying bioreactors for nitrate removal from tile drainage</td>
<td>Ehsan Ghane, Ph.D. student, OSU Ag. Engineering</td>
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<td>3:50</td>
<td>Yield increases from controlled drainage</td>
<td>Norm Fausey, USDA-ARS, Columbus, OH</td>
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<td>4:20</td>
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CCA CEU draft
Room C  WEDNESDAY (morning)  No-till, strip-till and soil quality

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, NRCS

11:15 Controlled traffic and compaction
Randall Reeder and Rafiq Islam

11:45 Fuel costs for tillage
Barry Ward, OSU Ag Econ.

12:15 LUNCH

Room C Wednesday (afternoon)  Seeding Technology

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