



Network for
agricultural drainage
and water quality

Conservation Drainage Network - 2020 Meeting Agenda

May 27-June 2: **Online** presentations, posters, and discussion

June 3-4: **Live** presentations, discussions, and networking

MAY 27-JUNE 2

View recorded presentations and virtual posters, linked from <https://conservationdrainage.net/meetings-and-events/2020-cdn-meeting/>. Ask questions and start discussions online that will continue during the live meeting.

WEDNESDAY, JUNE 3

<i>Time (EDT) Time (CDT)</i>	<i>Event</i>
8:45-9:00 am 7:45-8:00 am	(Optional) Virtual coffee hour – <i>Sign on early, test your connection, and say Hello to drainage colleagues as they sign on.</i> <i>Complete instructions described in “Participant Information”, if you haven’t yet done so:</i> <ul style="list-style-type: none"> • <i>Rename yourself to “Name, Organization” to provide a virtual nametag.</i> • <i>Go to Slido.com, event code CDN20 to be ready to respond to polls and ask questions.</i>
9:00-10:20 am 8:00-9:20 am	Session 1: The Conservation Drainage Network and Our Drainage Future (Recording) <i>Welcome and overview by Jane Frankenberger, Moderator</i> Keynote Presentation by the Conservation Drainage Network Organizing Committee: <i>The Conservation Drainage Network: How we got here, Who we are, Envisioning the future</i> <i>Jane Frankenberger, Purdue University</i> <i>Jeff Frey, U.S. Geological Survey</i> <i>Jeff Strock, University of Minnesota</i> <i>Ehsan Ghane, Michigan State University</i> <i>Ruth Book, USDA Natural Resources Conservation Service</i> <i>Chris Hay, Iowa Soybean Association</i> <i>Kevin King, USDA Agricultural Research Service</i> <i>Jeppe Kjaersgaard, Minnesota Department of Agriculture</i> <i>Keegan Kult, Ag Drainage Management Coalition</i> <i>Breakout groups:</i> <i>All attendees will be assigned to a group; Facilitators will lead discussion of the following questions; thoughts captured by Recorders:</i> <ol style="list-style-type: none"> 1. What should the future of drainage be? 2. What can we do to direct the future to where we think it should be? 3. What actions do you suggest for the Conservation Drainage Network? 10:05 Report back (selected groups) 9:05 Next steps for synthesizing and prioritizing actions <i>Change Slido event code for prioritization to CDN-actions. “Like” up to 5 suggestions before the Closing Session, 10 am Thursday..</i>
10:20/9:20-am	BREAK (10 minutes)

<p>10:30-12:10 pm 9:30-11:10 am</p>	<p><u>Session 2: Conservation Drainage Implementation: Industry and Agency (Recording)</u> <i>Welcome and overview: Jeppe Kjaersgaard, Moderator</i></p> <p>10:33am Agricultural Drainage Management Coalition 9:33am <i>Keegan Kult, Executive Director and Charlie Schafer, Chairman of the Board</i></p> <p>10:50am USDA Natural Resources Conservation Service 9:50am <i>Ruth Book, Illinois State Conservation Engineer and Alan Gillespie, National Water Management Engineer</i></p> <p>11:07 am USDA Agricultural Research Service 10:07am <i>Teferi Tsegaye, Natl Program Leader, Water Availability & Watershed Mgmt</i></p> <p>11:19 am National Institute of Food and Agriculture 10:19am <i>Jim Dobrowolski, National Program Leader, Div. of Environmental Systems</i></p> <p>11:31 am Linking Soil Health to Agricultural Water Management: A Proposed Private-Public Research Consortium. 10:31am <i>Kathy Boomer, Scientific Program Director, Foundation for Food and Agricultural Research</i></p> <p>11:43am Hypoxia Task Force: Innovative BMPs and In-Basin Metrics 10:43am Presented by Hypoxia Task Force State and Federal members <i>Katie Flahive, US EPA</i></p> <p>11:55am U.S. Geological Survey 10:55am <i>Jeff Frey, Deputy Director, Ohio-Kentucky-Indiana Water Science Center</i></p>
<p>12:10-2:00 pm 11:10-1:00 pm</p>	<p>LUNCH BREAK (1 hour 50 min)</p>
<p>2:00-3:35 pm 1:00-2:35 pm</p>	<p><u>Session 3: Highlights of State Drainage Reports by NCERA-217 Members (Recording)</u> <i>Welcome and overview: Ehsan Ghane, Moderator</i></p> <p><i>Panel 1- 2:05pm EDT/ 1:05pm CDT</i></p> <p>Michigan Drainage Update <i>Ehsan Ghane, Assistant Professor and Extension Specialist, Michigan State University</i></p> <p>Missouri Report <i>Kelly Nelson, Professor, University of Missouri</i></p> <p>Illinois State Update <i>Laura Christianson, Assistant Professor, University of Illinois</i></p> <p><i>Panel 2- 2:35pm EDT/ 1:30pm CDT</i></p> <p>Minnesota Research Update <i>Lindsay Pease, Assistant Professor and Extension Specialist, University of Minnesota</i></p> <p>North Dakota Research Update <i>Xinhua Jia, Professor, North Dakota State University</i></p> <p>Impacts of N Management, Manure Management, And Land Use on Nitrate Loss <i>Matthew Helmers, Professor, Iowa State University</i></p>

	<p>Panel 3- 3:05pm EDT/ 2:00pm CDT</p> <p>An Update on Agricultural Water Management Research in North Carolina <i>Mohamed Yousef, Professor, North Carolina State University</i></p> <p>Integrated Drainage Water Management for Agricultural Production, Soil Health and Water Quality Benefit --<i>Jeff Strock, Professor, University of Minnesota</i></p> <p>The Transforming Drainage Project <i>Benjamin Reinhart, Project Manager, Purdue University</i></p>
<p>3:35-3:45 pm 2:35-2:45 pm</p>	BREAK (10 minutes)
<p>3:45-5:00 pm 2:45-4:00 pm</p>	<p>Session 4: Drainage Research – Highlights and Discussion (Recording)</p> <p><i>Welcome and overview: Jeff Frey, Moderator</i></p> <p>Panel 1- 3:45pm EDT/ 2:45pm CDT</p> <p>A Systems Approach to The Sustainable Intensification of Drainage <i>Mike Castellano, Professor, Iowa State University</i></p> <p>Indiana Drainage Research Update <i>Jane Frankenberger, Professor & Shalamar Armstrong, Assoc Professor, Purdue University</i></p> <p>Drainage for The Long Haul: Key Take-Aways From the SEPAC Study <i>Eileen Kladvko, Professor, Purdue University</i></p> <p>Panel 2- 4:15pm EDT/ 3:15pm CDT</p> <p>RZWQM2-P: A New Tool for Phosphorus Management in Subsurface-Drained Fields <i>Zhiming Qi, Associate Professor, McGill University</i></p> <p>Adapting Phosphorus Removal Structures to Midwest Drainage <i>Chad Penn, Soil Scientist, USDA Agricultural Research Service</i></p> <p>Research Update: Using Drones to Map Subsurface Drainage <i>Barry Allred, Research Agricultural Engineer, USDA Agricultural Research Service</i></p>
<p>5:00 pm 4:00 pm</p>	<p>Adjourn for the day <i>(Optional) Virtual happy hour – Network with drainage colleagues by staying online.</i></p>
THURSDAY, JUNE 4	
Time (EDT), Time (CDT)	Event
<p>8:45-9:00 am 7:45-8:00 am</p>	<p><i>(Optional) Virtual coffee hour – Sign on early, test your connection, and say Hello to drainage colleagues as they sign on.</i></p>
<p>9:00-9:35 am</p>	<p>Session 5: Drainage Research – Highlights and Discussion (Recording)</p> <p><i>Welcome and overview: Jeff Strock, Moderator</i></p> <p>Panel 3- 9:05am EDT/ 8:05am CDT</p> <p>Water Storage, Mixing, and Fluxes in Tile-Drained Agricultural Fields <i>Mark Williams, Research Agricultural Engineer, USDA Agricultural Research Service</i></p> <p>Building Capacity to Increase Conservation Drainage Practice Implementation in Illinois <i>Adrienne Marino, Water Quality Project Manager, The Nature Conservancy</i></p> <p>Drainage water management <i>Kevin King, Research Leader and Agricultural Engineer, USDA Agricultural Research Service</i></p>

<p>9:35-10:00 am</p>	<p>Poster Presentations</p> <p>Identifying Phosphorus Hotspots in the Red River Valley of the North <i>Heidi Reitmeier, Graduate Student, Soils Researcher, Northwest Research and Outreach Center</i></p> <p>Temporal Variability in Water and Nutrient Movement Through Vertisols Into Agricultural Tile Drains in the Northern Great Plains <i>Vivekananthan Kokulan, Postdoctoral fellow, University of Waterloo</i></p> <p>Tile Drainage in Vertisolic Soils of Near-Level Southern Manitoban Landscapes – Implications for Runoff and Water Quality <i>Vivekananthan Kokulan, Postdoctoral fellow, University of Waterloo</i></p> <p>Water Quality Response to No-Till and Cover Crops After 10 Years of Establishment <i>Emily Waring, Graduate Student, Iowa State University</i></p>
<p>10:00-10:10 am</p>	<p>BREAK</p>
<p>10:10-12:00 pm</p>	<p>Session 6: Charting a Course for The Conservation Drainage Network (Recording)</p> <p>Overview and review of suggestions for next steps for the Conservation Drainage Network -- <i>Chris Hay, Moderator</i></p> <p>The 11th International Drainage Symposium – <i>Matt Helmers, Iowa State University</i></p> <p>Short presentations on charting a course by thought leaders in conservation drainage</p> <ul style="list-style-type: none"> • <i>Eileen Kladviko, Purdue University</i> • <i>Chuck Brandel, ISG</i> • <i>Merrin McRae, University of Waterloo</i> <p>Breakout group discussions:</p> <p>A. What are the most important actions for the Conservation Drainage Network?</p> <p>B. What will you do during the next few years to support those goals?</p> <p>Report back and discussion</p> <p>Brief review and evaluation of this Virtual Meeting</p> <p>Acknowledgements and thanks</p> <p>Concluding thoughts: <i>Roger Wolf, Iowa Soybean Association</i></p> <p>Conclusion</p>

2:00-3:00 pm

NCERA-217 Business Meeting (For NCERA-217 members)