

## Topics for 2020 Drainage Research Forum – Preliminary Agenda

December 1, 2020

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### **8:30-10:00**

<b><u>INTRODUCTION</u></b>	8:30- 8:40
<b><u>A Research Update from the Coolest Drainage Plots in Minnesota</u></b> <i>Lindsay Pease</i> Assist. Professor and Extension Specialist in Nutrient and Water Management NW Research & Outreach Center, University of Minnesota	8:40-8:50
<b><u>Building on a Baseline - Finding Harmony for Tile Drainage in South Dakota</u></b> <i>John McMaine</i> Assist. Professor & Extension Water Management Engineer Agricultural and Biosystems Engineering, South Dakota State University	8:50-9:00
<b><u>Edge-of-Field P Loss in Cold Climates</u></b> <i>Merrin Macrae</i> Professor, Geography and Environmental Management, University of Waterloo	9:00 -9:20
<b><u>Can we filter dissolved phosphorus from non-point drainage in Minnesota with phosphorus removal structures?</u></b> <i>Chad Penn</i> Soil Scientist USDA-ARS National Soil Erosion Research Laboratory	9:20-9:40
Q&A	9:40-10:00
Break	10:00-10:30

### **10:30-12:00**

<b><u>A chip off the ole block: Woodchips for denitrifying bioreactors.</u></b> <i>Laura Christianson</i> Assist. Professor, Crop Sciences, University of Illinois at Champaign-Urbana	10:30-10:50
<b><u>Design drainage rates to optimize crop production for subsurface-drained farms.</u></b> <i>Ehsan Ghane</i> Assist. Professor and Extension Specialist, Biosystems and Agricultural Engineering, Michigan State University	10:50-11:10
<b><u>Drainage Water Recycling in Iowa</u></b> <i>Sam Phillips</i> Graduate Assistant, Agricultural and Biosystems Engineering, Iowa State University	11:10-11:30

**The development of automated drainage water management in North Carolina.** 11:30-11:50

***Chad Poole***

Assist. Professor and Water Resiliency Extension Specialist, Biological and Agricultural Engineering, North Carolina State University

Q&A 11:50-12:00

Break 12:00-1:00

**1:00-3:00**

**Cropped depressions can be hotspots of nutrient losses in tile-drained catchments** 1:00-1:20

***Steven Hall***

Assist. Professor, Ecology, Evolution & Organismal Biology, Iowa State University

**Drainage for the long-haul: Impacts on crop yields and soil health** 1:20-1:40

***Eileen Kladvko***

Professor, Agronomy, Purdue University

**NutriNet: Coordinated Site Network for Studying the Impacts of 4R Nutrient** 1:40-2:00

***Alison Eagle***

Scientist, Sustainable Agriculture Program, Environmental Defense Fund

**Investigating the impact of ET model choice for DRAINMOD in the upper Midwest** 2:00-2:20

***Mike Talbot***

Water Resources Engineer, Emmons & Olivier Resources, Inc., St. Paul MN

**Discussion of priorities** 2:20-3:00

Please follow the link and make a selection on your thoughts on the “Biggest issue/priority that you see in drainage”, and please add your comments.

[https://iastate.qualtrics.com/jfe/form/SV\\_5mwAkQfDmBnhLgh](https://iastate.qualtrics.com/jfe/form/SV_5mwAkQfDmBnhLgh)