

2015 4R Nutrient Stewardship Summit Agenda

May 12th Washington D.C.

8:00-8:15 **Welcome & Introductions to 4R Research Projects**

8:15-10:30 **Impacts of 4R Practices: Knowledge and Gaps Identified in 5 Meta-Analyses**

- *A Managed Approach for 4R Nutrient Stewardship on Drained Land*
- Dr. Laura Christianson, The Conservation Fund-Freshwater Institute
- *Assessing the Effects of Conservation Practices & Fertilizer Application Methods on Nitrogen & Phosphorus Loss From Farm Fields*
-Stephanie Nummer, The University of Toledo
- *Nitrogen Losses: A Meta-Analysis of 4R Nutrient Management in US Corn-Based Systems*
-Dr. Alison Eagle, Duke University
-Dr. Lydia Olander, Duke University
- *Meta-Analysis of Enhanced Efficiency Fertilizers in Corn Systems in the Midwest*
-Dr. Rachel Cook, Southern Illinois University
- *Meta-Analysis of Phosphorus Fertilizer Placement & Tillage Interaction for Corn & Soybeans in the US*
-Dr. Dorivar Ruiz Diaz, Kansas State University

10:20-10:30 **Panel Discussion** (All Presenters)

10:30-10:45 **Break**

10:45– 12:30 **Managing Nutrients for Lake Erie**

Moderated by Carrie Vollmer-Sanders, The Nature Conservancy

- OH 4R Certification Program, Andrew Allman, Ohio Agribusiness Association (OABA)
- MI Green Program – Tim Boring, Michigan Agribusiness Association (MABA)
- *Evaluating the 4R Concept and Certification Program in the Western Lake Erie Basin*
-Dr. Kevin King, USDA-ARS
- Lake Erie Region Regional Conservation Partnership Program (RCP) and other 4R efforts – Norm Widman, USDA NRCS
- Canada's 4R Designation Program – Clyde Graham, Canadian Fertilizer Institute (CFI)

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- 12:30–1:30 **Lunch with Invited Speaker** – Dr. Ellen Gilinsky, EPA, Importance of 4R Research in Today’s Environment
- 1:30–3:00 **Efforts to Manage Nitrogen in the Midwest**
- *Supplemental Late-Vegetative Nitrogen Applications for High-Yield Corn: Agronomic, Economic & Environmental Implications*
- Dr. Tony Vyn, Purdue University
 - Illinois Efforts
 - Keep it 4R Crop Program, Jean Payne, IFCA
 - Overview of Illinois Nutrient Research Projects, Dr. Emerson Nafziger, University of Illinois
 - *Impacts of 4R Nitrogen Management on Crop Production & Nitrate-Nitrogen Loss in Tile Drainage*
-Dr. Matthew Helmers, Iowa State University
- 3:00–3:25 **4R Nutrient Stewardship in Conjunction with Conservation Practices**
- *Minimizing Phosphorus Loss with 4R Nutrient Stewardship & Cover Crops*
-Dr. Nathan Nelson, Kansas State University
- 3:25–3:40 **Break**
- 3:40–4:10 **4R Impacts on Greenhouse Gas Emissions**
- *Overview of Canadian 4R Research Projects*
- 4:10 – 5:10 **The Power of Data: Documentation and Trend Evaluation**
- Trends in Good Corn N Management Practices—Dr. Marc Ribaud, USDA-ERS
 - *Getting More from 4R Data: Overview of the 4R Research Data Repository* – Presented By: Dr. Jeff Volenec, Purdue University
Co-Authored By: Dr. Sylvie Brouder, Purdue University
- 5:10–5:30 **Review & Filling in the 4R Knowledge Gaps**
- 5:30–6:30 **Reception Hosted by the Canadian Fertilizer Institute**

*All 4R Funded Research Projects are underlined