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**NORTH CENTRAL EXTENSION-INDUSTRY
SOIL FERTILITY CONFERENCE**

109 E. Main St., Monticello, IL 61856

217-762-7955 | info@northcentralfertility.com
northcentralfertility.com

51st Annual

**NORTH CENTRAL EXTENSION-INDUSTRY
SOIL FERTILITY CONFERENCE**

17-18 November 2021

Planning Committee

Bijesh Maharjan, University of Nebraska-Lincoln, Co-Chair
David Franzen, North Dakota State University, Co-Chair
Dorivar Ruiz Diaz, Kansas State University
Antonio Mallarino, Iowa State University
Daniel Kaiser, University of Minnesota
Cristie Preston, Nutrien
John Grandin, Compass Minerals
Matt Clover, Corteva Agriscience
Andrew Hoiberg, Calcium Products Inc.
Peyton Harper, The Fertilizer Institute

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51st Annual NORTH CENTRAL EXTENSION-INDUSTRY SOIL FERTILITY CONFERENCE

WEDNESDAY, NOVEMBER 17

- 1:00 pm **Dr. Bijesh Maharjan, Co-Chair**, Welcome
- 1:05 pm **Raj Khosla**, *Farming the Data: New Paradigm in Precision Agriculture*
- 1:40 pm **Trenton Roberts**, *A New Frontier Below the Horizon: My Work with Pivot Bio Biologicals*
- 2:15 pm Poster Break
- 3:00 pm **Emerson D Nafziger**, *The MRTN Approach: Past, Present, and Future*
- 3:35 pm **Carrie Laboski**, *Implementation and Validation of the MRTN Recommendation System in Wisconsin*
- 4:10 pm **David Franzen**, *Independence of Yield and N-Rate, and Use of EONR in N Fertilizer Recommendations in North Dakota*
- 4:45 pm Poster Break and Cash Bar
- 5:45 pm Banquet and Awards

THURSDAY, NOVEMBER 18

- 8:00 am **Carolyn Dindorf**, *Chloride from Fertilizer and Water Pollution – Should I Be Concerned?*
- 8:35 am **Daniel Kaiser**, *Should Potassium Chloride be Applied to Soybean?*
- 8:55 am **Dorivar Ruiz Diaz**, *Evaluation of Soil Test Methods and Early Tissue Analysis to Assess Potassium Response in Soybean*
- 9:15 am Poster Break
- 9:45 am **Alan Blaylock**, *Fertilizer Manufacture - Converting Nature's Nutrient Storehouse to Plant Nutrition*
- 10:20 am **Laila Puntel**, *Impact of Site-Specific Variability on the Effectiveness of Active Canopy Sensors for In-Season N Management in Corn*
- 10:40 am **Jason Clark**, *Corn Nitrogen Fertilizer Management Practices in Eastern South Dakota*
- 11:00 am **Larry Cihacek**, *Some Thoughts on Nutrient Mineralization and Cycling in No-Till Systems*
- 11:20 am **Dr. Bijesh Maharjan, Co-Chair**, *Closing Session/Adjourn*

POSTER PRESENTATIONS

GENERAL

- Banded Fertility: Music for Higher Corn Yields**
Scott Foxhoven - University of Illinois
- Comparison of Mehlich-3 and Haney H3A-4 Soil Tests in Kansas Soils**
Bryan Rutter - Kansas State University
- Effect of Liquid Calcium as a Liming Agent in Soil**
Ben Setchell - University of Kentucky
- Implications of Clay Mineral Analysis for Improved Calibration of Corn Potassium Fertilizer Recommendations**
Andrew Ahlersmeyer - South Dakota State University
- Maize Yield Increased by Optimal Timing and Placement of Polymer-coated Nitrogen Fertilizer**
Stephen Schwartz - University of Illinois
- Site-Specific Yield and Protein Response to Nitrogen Rate and Timing in Winter Wheat**
Jose Guilherme Cesario Pereira Pinto - University of Nebraska-Lincoln
- Soil Mineral Nitrogen Response to Nitrogen Fertilizer Application in Corn Early Growth Season**
Pedro Morinigo - Kansas State University

GRADUATE AWARD STUDENT POSTER

- Biomass and Nitrogen Partitioning of the Modern Russet Varieties of Potatoes Under Nitrogen Stressed and Optimum Conditions**
Ashmita Rawal - University of Wisconsin-Madison
- Can ProveN Reduce Corn Nitrogen Requirement in Minnesota?**
Mason Currie - University of Minnesota
- Comparative Effects of Herbicide, Nitrogen Inhibitors and Nitrogen Source on Nitrification and Corn Yield**
William Neels - University of Nebraska Lincoln
- Corn Response to Phosphorus Fertilization and Evaluation of Soil Test Methods in Kansas Soils**
Gustavo Roa - Kansas State University

- Nutrient Removal and Nutrient Harvest Index of High-Yield Corn Under Intensive Management**
Garrett Verhagen - Purdue University
- Soil and Soybean Responses to Planting into Terminated Prairie Strips**
Cole Dutter - Iowa State University
- Soil Health Indicators Help with Fertilizer Application Decisions in South Dakota Corn**
Benjamin Groebner - South Dakota State University
- Synergism Between Lime and Phosphate Fertilizer Application Enhances Soil Phosphorus Availability**
Marcos Harm Loman - University of Illinois
- Winter Wheat Grain and Straw Impacts from Autumn Starter and Spring Nitrogen Fertilizer Strategies**
Lacie Thomas - Michigan State University

GRADUATE AWARD STUDENT/STATE POSTER

- Can Soil Health Metrics Improve Standard Soil Fertility Recommendations?**
Jeffrey Svedin - University of Missouri
- Managing Nitrogen to Optimize Yield and Quality of North Dakota Two-row Malting Barley**
Brady Goettl - North Dakota State University

STATE POSTER

- High Gypsum Application Rates Impacts on Iowa Soil Properties, Dissolved Phosphorus Loss, and Crop Yield**
Antonio Mallarino - Iowa State University
- Nitrogen Timing Fertilization Strategies for Winter Wheat in Wisconsin**
Carrie Laboski - University of Wisconsin-Madison
- Seed Germination as Influenced by Fertilizer Type, Seed Coating, and Duration of Storage**
Edwin Ritchey - University of Kentucky
- Soil Fertility Research in Manitoba**
John Heard - Manitoba Agriculture
- Soybean Growth and Yield Effects from Starter Fertilizer and Nitrogen Application**
Storm Soat - Michigan State University