Managing Impacts to Water Quality in Production Agriculture

Nebraska Water Center Symposium

October 26-27, 2017

October 26  Thursday
8:00-8:45  Registration and continental breakfast
8:45-9:00  Introduction to the symposium, needs, etc. (C. Ray)
9:00-9:30  Main speaker 1 Bruce Lindsey, US Geological Survey, Harrisburg, PA
    Risk of Nitrate in Groundwaters of the United States: A National Perspective
9:30-10:00  Mean speaker 2 (waiting for finalization)
10:00-10:30  Break
10:30-12:00  Nebraska water quality concerns
    Nitrate in ground water and municipal systems: Marty Stange, Hastings Utilities
    Managing nitrogen at the NRD levels: Lyndon Vogt, Central Platte NRD
    Water Quality in Nebraska: Marty or Ryan
    Nebraska Public Water Supplies: Howard Issacs, NDHHS
12:00-1:30  Lunch and poster session
    Selection of three best student posters
1:30-3:00  Nitrogen transformation and other complications
    Balancing N inputs and outputs: Tiffany Messer, UNL
    Storage of nitrogen in the vadose zone: Daniel Snow, UNL
    Co-contaminants and redox chemistry: Karrie weber, UNL
    Source of N and age dating of sources: Troy Gilmore, UNL
3:00-3:30  Break
    Sam Radford, Wellhead Protection Program Coordinator, NDEQ
Marty Strange, Environmental Supervisor, Hastings Utilities
Jason Ripa, Water System Operator, City of Wilber
Mark Waldrick, Ag Advisory, West Point
TNC Platte River Project Coordinator—invited
Phil Steinkamp, Agronomist/Crop Consultant, Pillen Family Farms (tentative)

4:30-6:00 Light reception and cash bar
October 27 Friday

8:30-10:00 **BMPs for N loss reduction**
- Gross nitrogen budgets for landscapes: Daniel Miller, USDA-ARS
- Cover crops and water quality: Humberto Blanco, UNL
- Review - Project sense for nitrogen management: Richard Ferguson, UNL
- BMPs for animal operations: Rick Koelsch, UNL

10:00-10:30 Break

10:30-12:00 **Moving forward and recommendations**
- Economic returns (yield versus total input and dealing with ground water contamination: Shannon Bartelt-Hunt and Eric Thompson, UNL
- Consideration of Triple bottom line (TBL) – economy, environment, and society – for nitrogen management: James Stone, South Dakota School of Mines and Technology, Rapid City, SD
- Role of education, outreach, and extension in nitrogen management: (one or two NRD board members, troy to organize??)

12:00-1:30 Lunch panel (Water Resources Advisory Panel of UNL)