Livestock and Poultry Environmental (LPE) Learning Center
Educational Webcast Series
lpelc.org

Next Generation Strategies for Managing Edge of Field Nutrient Losses

December 15, 2017

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

Nutrient loading and hypoxia are not just a coastal state issues. This webinar will discuss what is being done in the Mississippi River basin and Chesapeake Bay areas to meet load reduction goals. Presenters will introduce strategies and best management practices (BMPs) to be used in midwestern croplands as well as TMDLs that are currently being used on the Eastern shore as well as some BMPs that are currently being explored. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.*

Dr. Laura Christianson P.E., Assistant Professor of Water Quality in the Department of Crop Sciences at the University of Illinois, co-leads the Illinois Drainage Research and Outreach Program (I-DROP) which focuses on economically thriving farms and clean water outcomes. She formerly worked as a research engineer on the design of woodchip bioreactors for removal of nitrate from point and non-point sources, studied options to improve ditch drainage water quality in the Mid-Atlantic, and has done water quality research as a Fulbright Fellow in New Zealand. Phone: (217) 244-6173; Email: LEChris@illinois.edu

Dr. Ray Bryant is a Research Soil Scientist for the USDA Pasture Systems and Watershed Management Research Unit, and is Lead Scientist for ARS research project "Sustaining Agroecosystems and Water Resources in the Northeastern U.S." Dr. Bryant uses knowledge of soil and landscape processes to devise strategies, such as chemical- and bio-filtration, for preventing the movement of nutrients from agricultural fields to drainage waters that flow to the Chesapeake Bay. He recently led development of an NRCS Practice Standard for surface application of gypsum products. Phone: (814) 863-0923; Email: ray.bryant@ars.usda.gov

Dr. Matt Helmers is a Professor in the Department of Agricultural and Biosystems Engineering at Iowa State University. He leads the Ag Water Management group at Iowa State University and conducts research and extension activities around ag water quality issues. Dr. Helmers was the Nitrogen Science Team lead on the Iowa Nutrient Reduction Strategy Non-point Source Science Assessment. Phone: (515) 294-6717; Email: mhelmers@iastate.edu

How Do I Participate?

On the day of the webcast, go to www.extension.org/58813 to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: www.extension.org/8924.

For More Information

* *Ten Ways to Reduce Nitrogen Loads from Drained Cropland in the Midwest* http://go.aces.illinois.edu/TenWays
* *NRCS Conservation Practice Standard Code 333: Amending Soil Properties with Gypsum Products* https://www.nrcs.usda.gov/wps/PA_NRCSConsumption/download?cid=nrcseprd370440&ext=pdf
* *State Nutrient Reduction Strategies* https://www.epa.gov/ms-htf/hypoxia-task-force-nutrient-reduction-strategies
* *Enhanced denitrification bioreactors hold promise for Mid-Atlantic ditch drainage* https://dl.sciencesocieties.org/publications/ael/abstracts/2/1/170032