

## Water Research Webinar Series

# Effectiveness of Nutrient Management for Reducing Nutrient Losses from Agricultural Fields

Wednesday, February 28 from 2 to 3:15 p.m. ET

Registration: [https://us02web.zoom.us/webinar/register/WN\\_u\\_pA8zrgTPihqh7T-FWWpw](https://us02web.zoom.us/webinar/register/WN_u_pA8zrgTPihqh7T-FWWpw)

Nutrients in agricultural areas are managed based on the 4Rs of nutrient stewardship: apply the right nutrient source, with the right rate, at the right time, in the right place. However, nutrient discharge is an ongoing environmental concern, and management practices for water quality improvements present many challenges due to complex processes and mechanisms in nutrient cycling and other factors associated with agricultural conservation practices such as residue and tillage management. This presentation will discuss two investigations focused on nitrogen (N) and phosphorus (P) and emphasizes the need for government agencies to work together to address potential economic losses due to implementation of lower fertilizer rates for water quality improvement.



### Yongping Yuan, Ph.D.

Yongping is a research hydrologist with the U.S. EPA's Office of Research and Development in Research Triangle Park, North Carolina. Her research primarily focuses on nutrient reduction approaches. Recent research efforts include evaluating effectiveness of agricultural conservation practices/urban BMPs for water quality improvement, developing a multi-media modeling system to demonstrate nutrient management systems to improve overall environmental quality, and assessing the impact of climate and land use change on water

quality and quantity and on ecosystem services by integrating environmental monitoring and modeling. Yongping Yuan holds a Ph.D. in agricultural engineering from University of Illinois at Urbana-Champaign and an M.S. in water conservation and civil engineering from Beijing Agricultural Engineering University.



A certificate of attendance will be offered for this webinar