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Area of Expertise:

- Soil Science
- Plant Nutrition
- Plant Physiology

Focus of Research:

- Water Quality/Nutrient Management

Current Funded Projects (Source):

- UMES-ARS Cooperative Agreement Awards in support of the Chesapeake Water Quality Center (USDA-ARS)
- Cost Effectively Reducing Chesapeake Bay Phosphorus Pollution and the Production of Bio-Fuels and Bio-Products (Maryland's MIPS Program)
- Combining Electrical Resistivity Imaging and Conservative Tracers to Characterize Subsurface Phosphorus Losses from Ditch-Drained Soils (AFRI-USDA)
- An Examination of the Autochthonous Sources of Urea in Watersheds and the Potential Role of Microbial Activity (Capacity Building Grant)
- SAM Initiative: Subsurface Application of Manures in the Chesapeake Bay Basin (National Fish and Wildlife Foundation Chesapeake Bay Stewardship Fund)
- A network Approach to Identifying and Promoting Innovations in Nutrient Management to Ensure Sustainable Water Resources and Aquatic Ecosystems (Environmental Protection Agency)
- Decreasing Nitrogen and Phosphorus in Drainage Waters Using a Comprehensive Drainage Management Approach (NRCS-CIG)