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ENGINEERING



Spring 2019 Friday Seminar Series

29 Mar 2019, 3 pm
Science and Technology Building, C-209

Dr. Randall Etheridge

Sensors in the Water: Transforming Water Resources Research

New sensors allow changes in water quality to be measured multiple times per day instead of multiple times per year. These sensors are transforming water resources research as we are answering long debated questions.

Dr. Etheridge works in the areas of ecological and agricultural engineering. The goal of his research program is to enhance the management and design of human altered systems to improve the sustainability of water resources in coastal communities. Recent research projects have focused on identifying causes of coastal flooding, investigating the effects of flooding and local industries on groundwater quality, and determining the impact of hydrologic management on nitrogen fluxes/dynamics in different ecosystems. His research combines in situ high frequency water quality measurements and hydrologic modeling to evaluate the effectiveness of altering designs and management.

Etheridge earned his PhD in Biological and Agricultural Engineering and BS in Biological Engineering from North Carolina State University.

