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CAES SEMINAR SERIES

“Impacts of Invasive Cattail (*Typha x glauca*) Management on Wetland Ecosystem Services”

Prof. Beth Lawrence

Dept. of Natural Resources and the Environment
Center for Environmental Science & Engineering
University of Connecticut, Storrs

Wednesday, March 29, 2017

12:00 noon to 1:00 p.m.

Food and coffee will be available at 11:45 a.m.

Jones Auditorium

The Connecticut Agricultural Experiment Station
123 Huntington Street, New Haven, CT

Hybrid cattail (*Typha x glauca*) is a problematic invader of wetlands throughout eastern North America that outcompetes native plants, reduces macroinvertebrate and wildlife habitat, and alters wetland biogeochemistry; thus, the species is a primary target for management action. Traditional management techniques such as herbicide application can have deleterious unintended consequences, while invasive *Typha* harvest (i.e., cutting and removing above-ground biomass) offers a potential bioenergy source, removal of nutrients stored in plant tissue, and increased diversity. Dr. Lawrence will synthesize current research examining several invasive *Typha* management experiments (i.e., herbiciding, mowing, crushing, harvesting). Her data highlight the importance of quantifying a range of responses during wetland restoration so that managers can evaluate potential trade-offs in ecosystem services; while harvest activities may increase plant diversity and provide a source of bioenergy, they may also increase emissions of CH₄, a potent greenhouse gas.