

A Water Luncheon Seminar

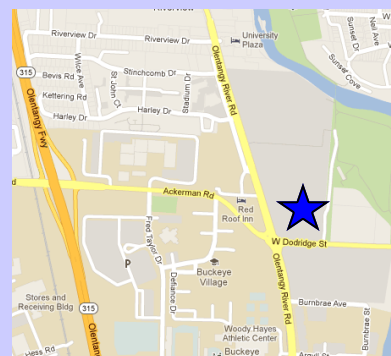


▶ Presented by:

The Water Management Association of Ohio
and
The Ohio Water Resources Center

April 16, 2014; 11:30 a.m. - 1:00 p.m.

Wilma H. Schiermeier Olentangy River Wetland Research Park,
The Heffner Building, 352 Dodridge St. Columbus, OH 43202



Assessing the Impact of Increased Climate Variability and Land Use Change on the Water and Nutrient Budget of the Upper Walnut Creek: Downscaling Climate Models to Drive Watershed Models

Gaj Sivandran, Assistant Professor, Civil, Environmental and Geodetic Engineering, The Ohio State University; <http://ecohydrology.wordpress.com/>

Non-point source pollution causes millions of dollars each year in impairment to surface waters in the United States, the largest contributing source being from agricultural runoff. Due to the complex coupled process interactions within the biogeochemical and hydrologic cycles, the spatial and temporal extent of non-point source pollution can be difficult to assess and quantify. With predicted changes in climate variability and land use change, numerical models of these watersheds offer a framework through which the impact of these changes can be quantified and managed. The Soil Water Assessment Tool model was calibrated and validated for the Upper Big Walnut Creek watershed, which serves as the primary drinking water source for 600,000 Columbus residents, to assess the effects of climate and land use change. Climate change scenarios from the Fifth Assessment Report from the Intergovernmental Panel on Climate Change were downscaled to drive the SWAT model to evaluate the potential changes to the water and nutrient budgets within the watershed.

Please register by April 9, 2014. Late or on-site registrations cost \$5 extra and are not guaranteed a meal. For registered engineers who need Professional Development Hours (PDHs), this presentation offers 1 PDH.

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