Our 48th conference will provide participants with valuable lessons learned, insights and tools relevant to issues, problems, and opportunities in water resources - regionally, nationally, and internationally.

Sessions will focus on a wide range of water resources topics including Agricultural Hydrology, Climate Change, Information Management and Tools, Forest Hydrology, Water and Energy, Water Quality, etc.

Other special topics will include In-stream Flow Requirements, Payment for Environmental Services, Nanotechnology in Water Resources and several others.

Regional tracks will focus on water issues of particular concern and interest to water resources professionals in the Southern U.S. and Florida.
This issue of Water Resources IMPACT is focused on New York City’s efforts to pursue a citywide green infrastructure strategy that includes implementing stormwater retrofit and ecological restoration projects that result in cleaner water, better habitat, and increased awareness. Through a thorough and committed series of pilot projects, the City is taking an adaptive management approach and using lessons learned in the ultra-urban setting to launch broader implementation efforts.

FEATURE ARTICLES

3 Sustainable Strategy for Clean Waterways: New York City’s Green Infrastructure Plan  
... Angela Licata
An overview of the range of green infrastructure projects being pursued in NYC is presented in this article along with the context of how green and grey infrastructure strategies can and need to be integrated to achieve combined sewer overflow reduction goals.

5 Algal Turf Scrubber Pilot Project: Evaluating Nutrient Removal and Biofuel Potential  
... John McLaughlin, Robert Will, Peter May and Sarah Roberts
Innovative ecosystem pilot studies as the Algal Turf Scrubber show promise for removing excess nutrient loads from wastewater streams and converting the biomass to a fuel.

8 Stormwater Control in the Public Domain  
... Julie Stein and Matthew Jones
Public spaces are often overlooked as potential areas for incorporating enhanced landscape elements that can filter and clean rain water. The NYCDEP is partnering with the NYC Housing Authority to enhance open space areas in NYCHA properties.

10 Rooftop Control of Stormwater: A Sustainable Source Control Strategy in NYC Using Blue Roof and Green Roof Applications  
... Julie Stein, John McLaughlin, and Laura Bendernagle
Rooftops make up a significant portion of NYC’s impervious area and represent a great opportunity to manage rainwater prior to it entering the combined sewer systems. Green roof and blue roof technologies are two solutions being pursued in the Big Apple.

13 Street-Side Source Control of Stormwater in New York City  
... John McLaughlin and Zhongqi Cheng
Besides rooftops, road right-of-ways are the other major components of impervious surface. Pursuing a strategy of “green streets” lined with bioswales that treat rainwater and provide shade and habitat is central to NYC’s green infrastructure strategy.

15 Ribbed Mussels as Water Filters to Clean Jamaica Bay  
... Robert Will, Terry Doss, and Justin Bowers
Natural systems have the potential to play an important role in cleaning NYC’s water resources. Introduction of ribbed mussels to filter water with high nutrient concentrations is one of several natural system “eco-pilots” being implemented in New York’s Jamaica Bay.