

The New York State Stormwater Regional Training Centers

featuring Don Lake PE, CPESC, CPSWQ

Lead Instructor and Curriculum Coordinator

~Eastern New York~

The New York Stormwater Regional Training Centers (SW RTC) are a Statewide Partnership between Saratoga and Orange County Cornell Cooperative Extensions, the Central New York Regional Planning & Development Board, and the Stormwater Coalition of Monroe County & Monroe County SWCD. Our goal is to provide the best technical training to all stormwater professionals working in New York State.

The Regional Training Centers are dedicated to providing stormwater professionals with the best possible Information, Education, and Training to help better manage stormwater runoff and keep all of our waters clean.

For more information about the Eastern NY SW RTC:

Call: (518) 885-8995 x224

or visit us on the web anytime at:

www.saratogastormwater.org

The Eastern NY SW RTC is located at:
Saratoga Cornell Cooperative Extension
50 West High Street
Ballston Spa, NY 12020

Eastern NY SW RTC~ Saratoga County
www.saratogastormwater.org

Central NY SW RTC~ Onondaga County
www.cnyrpd.org/stormwater

Southeastern NY SW RTC~ Orange County
<http://counties.cce.cornell.edu/orange/orange.htm>

Western NY SWRTC~ Monroe County
www.monroecountyswcd.org



Please Register Me for the Following:

(includes all course materials, refreshments, and lunch)

Soils/Hydrology for GI (\$200)
Wednesday November 9th, 2011

Green Infrastructure Applied (\$200)
Thursday January 26th, 2012

SW Pond & Wetland Design (\$200)
Tuesday February 28th, 2012

SW for Linear Projects (\$200)
Tuesday March 27th, 2012

SWPPP Preparation & Review (\$200)
Wednesday May 9th, 2012

TOTAL REGISTRATION FEES \$

Special Discount (\$800)
Register for all 5 Courses

Registration/Sign In for all courses begins at 8 AM;
All courses are scheduled for 8:30 AM to 4:30 PM

Make checks or purchase orders payable to: "Saratoga CCE"

MAIL TO:
Eastern SW RTC
ATTN: Blue Neils
50 West High Street
Ballston Spa, NY
12020

FAX TO:
518-885-9078
with credit card
information

Save the registration adding "_YourName" to the file-name and
EMAIL TO:
brn5@cornell.edu

OR

OR

Payment: Check Voucher Credit Card Cash At the Door

Name: _____

Company or Organization: _____

Address: _____

City: _____

State: _____ **Zip:** _____

Telephone: (____) _____

Fax: (____) _____

Email: _____

Credit Card Registration

VISA Master Card Sorry we can't accept AMEX or Discover
Card#: _____ **Expires:** _____

Name on Card: _____

PLEASE NOTE that it is the policy of the Eastern NY SW RTC not to refund "no show" registrants. Cancellations must be made at least 2 business days prior to the course date and will be charged a \$25 fee. Substitutions are acceptable up to the day of any course.

We cannot guarantee the security of email attachments. DO NOT EMAIL this form with your credit card information! If you intend to pay by credit card, please, fax the completed form to the number or mail it to us at the address provided on this form.



John Dunkle, PE, CPESC, CMS4S~ Lead Instructor

John is a graduate of SUNY ESF and Syracuse University, and has been practicing civil engineering since 1981. Working with both private developers and municipalities on site planning and development projects, John's has prepared and reviewed SWPPP's, provided guidance for MS4's, participated with DEC in the development of the current Stormwater regulations, and conducted stormwater trainings for contractors, developers, engineers, and municipal officials.

He is also a Visiting Instructor at SUNY ESF, teaching a graduate level Stormwater Management class, and has been conducting stormwater trainings across NY State with Don Lake for over 6 years. He is a certified CPESC instructor.

John is the Planning Board Chairman in the Town of Nelson, Madison County.

1. SOILS and HYDROLOGY for GREEN INFRASTRUCTURE ~ 7.0 PDH available for this course.

– A working knowledge of soils and hydrology are essential skills for anyone involved in the planning, design, or review of Green infrastructure practices. In the first section of this workshop, we will review the many classifications and characteristics of natural and man-altered soils that influence runoff, infiltration, storage, filtration, and vegetative growth. Techniques for soil restoration will also be explored. Secondly, the hydrology of Green infrastructure practices will be examined, especially impervious disconnection, and its effect on RCN and TC. Techniques for computing and evaluating small and large storm hydrology incorporating runoff reduction will be applied to various development scenarios. Topics Include:

Soil characteristics and classifications	Using the Soil Survey	Compaction Impacts	Soil restoration techniques
Infiltration testing	Soil amendments for GI practices	Basics of TR55 Hydrology	Impervious disconnection
Hydrology modeling for source control/GI practices		Small storm hydrology	

2. APPLIED GREEN INFRASTRUCTURE ~ 7.0 PDH available for this course.

Integrating Green Infrastructure techniques for stormwater management has changed the paradigm from an “end-of pipe” treatment approach, to one encompassing source control. Using the techniques and standards outlined in the 2010 NYDEC Stormwater Design Manual, this workshop will explore in detail the process of selecting and designing effective GI practices, and review the method for computing the associated runoff reduction. Designed as an in-depth follow-up to last's years introduction to GI, this training will emphasize applications to numerous development conditions, and discuss some of the nuances of these stormwater management techniques. Topics Include:

Overview of the GI approach	GI practices	Practice selection	Computing runoff reduction
Design principles for GI practices	Maintenance requirements for GI practices	Roundtable with private sector, municipal, and regulatory perspectives on implementing GI	

3. SW POND AND WETLAND DESIGN ~ 7.0 PDH available for this course

The NY Stormwater ponds, and to a lesser extent stormwater wetlands, are the most widely used and accepted stormwater management practices. Properly designed and managed ponds and wetlands mitigate peak runoff and effectively remove pollutants from stormwater, while creating an aesthetically attractive and environmentally diverse feature for development sites. This course will cover all attributes of pond and wetland design, hydrology, and hydraulics, plant selection and maintenance requirements. Topics include:

Characteristics	Effectiveness and limitations	Design elements	Hydrology & Hydraulics
What's new & innovative	Vegetation/planting	Maintenance	

4. STORMWATER MANAGEMENT FOR LINEAR PROJECTS ~ 7.0 PDH available for this course

Linear development projects such as highways and pipelines present unique challenges for stormwater management. This class will provide the techniques and practices most applicable for achieving erosion and sediment control, peak flow mitigation pollutant removal and runoff reduction on these confined site conditions. Topics include:

Linear projects and the storm-water permit	Erosion and sediment control specifics for Linear Projects	Applicable SM practices	NYDOT design criteria for SWM
Hydrology & Hydraulics	Achieving Runoff Reduction	Retrofits	Maintenance

5. SWPPP Preparation & Review ~ 7.0 PDH available for this course The Stormwater Pollution Prevention Plan (SWPPP), is the cornerstone of any development project's strategy for managing stormwater, and demonstrating compliance with the GP-10-001 permit. The SWPPP document and the related NOI are the essential communication tool between designers and regulators. The objective of this class is to give those charged with preparing and reviewing SWPPP's effective techniques for documenting and checking the essential elements of a Plan, which includes erosion and sediment control, post construction management, runoff reduction and maintenance. Guidance for the development and review of design alternatives that may deviate

The NY Stormwater Permits	Critical Elements	SWPPP Outlines & Checklists	Preparation and Review Changes
Preparation of the NOI	Roundtable with Municipal, Regulatory, and Private Sector Perspectives on the SWPPP Process		