

The New York State Stormwater Regional Training Centers

featuring John Dunkle PE, CPESC, CMS4
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://cceorangecounty.org/ag-environment/stormwater-management-training>

Western NY SWRTC~ Monroe County
www.monroecountyswcd.org



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

Please Register Me for the Following:

(includes all course materials, refreshments, and lunch)

When It Rains: SW Hydrology —\$225
Wednesday February 22nd, 2017

Maintenance and the MS4 Permit —\$225
Wednesday March 22nd, 2017

All in a ROW —\$225
Thursday April 20th, 2017

Constructed SW Wetlands —\$225
Wednesday May 24th, 2017

The New Blue II —\$225
Thursday June 22nd, 2017

TOTAL REGISTRATION FEES \$

\$125 Discount if Registering for all 5 SW RTC courses, One-time Fee: \$1,000.00 (check this box)

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

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

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

Payment: Check Voucher Credit Card Cash At the Door

Name: _____

Company or Organization: _____

Address: _____

City: _____

State: _____ **Zip:** _____

Telephone: (____) _____

Fax: (____) _____

Email: _____

Credit Card Registration ~ Sorry we can't accept AMEX or Discover
 VISA Master Card

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 and transfers are acceptable up to the day of any course.

We cannot guarantee the security of email attachments. EMAIL at your own risk! If you intend to pay by credit card, we recommend you 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. When It Rains: Stormwater Hydrology; 02-22-2017 ~ 7.0 PDH available for this course.

Predicting the volume and rate of runoff from rain events is an essential skill for stormwater engineering and design. This class will examine in detail all of the factors that influence runoff: precipitation, soils, ground cover, drainage area and time of concentration, etc. Using TR-55 technology and the latest soil and precipitation data, participants will compute runoff for various pre- and post-development conditions. Calculations will, first, be done by hand and then by using a computer model; determining detention storage volumes and modeling of reservoirs and outlet control structures will also be addressed.

2. Maintenance and the MS4 Permit; 03-22-2017 ~ 7.0 PDH available for this course.

With 13 years and counting of the Phase II Program and thousands of Stormwater Management Post-Construction Control Practices built, SMP Inventory and Operations & Maintenance requirements are a growing area of MS4 Stormwater Management Permitting, Programming and Planning. Recently, DEC released a much needed draft Maintenance Chapter for the Stormwater Management Design Manual that will affect MS4s and their Stormwater Management Programs, as well as SMP Designers. Additionally, the also-recently-released Draft MS4 Permit has placed a premium on the importance and prioritization of the SMP Inventory and O&M MS4 programs to address known and/or potential water quality impacts. Specifically, regarding these two documents:

1. The draft Maintenance Chapter for the Stormwater Management Design Manual has been published for comment.
2. The DRAFT MS4 General Permit is being revised for a new five year term beginning in 2017.

This class will review these new documents in detail and provide guidance for professional consultants and municipal officials involved in MS4 programs. During the review of the maintenance chapter, specific inspection, assessment, trouble-shooting, and remediation measures will be identified for each category of stormwater management practice. Maintenance costs and agreements will also be discussed. We'll discuss compliance strategies including establishing priorities in your minimum control measures, developing a pollutant-specific SWMP Plan and addressing impaired waters

While the MS4 permit modifications are still a work in progress, DEC personnel will also be on-hand to share a status report on the modifications under consideration, as well as a summary of the public comments received on the draft document, and the impact that EPA's Remand Rule may have on the MS4 permit. There will be time for questions, clarifications, and comments.

3. All in a ROW; 04-20-2017 ~ 7.0 PDH available for this course

Linear projects, such as highways and utilities, present unique challenges for managing stormwater due to their length and space restrictions for installing BMPs. This class, co-taught with Ellen Hahn Kubek of NYSDOT, will review the stormwater management techniques and practices that are most suitable for application in these conditions. Class exercises will include preparation of E&SC plans, hydrology analysis, and the design of post construction practices on various linear type projects, including street-scaping retrofits. Applicability of the construction general permit requirements for linear projects will also be reviewed.

4. Constructed Wetlands for Stormwater Management 05-24-2017 ~ 7.0 PDH available for this course

Wetlands may be one of the most ecologically diverse eco-systems on earth. Not only do they support a wide variety of flora and fauna, they also function extremely well as natural stormwater management systems. It is no wonder that constructed wetlands are employed as stormwater management practices. However, creating a functional and viable wetland is not easy. This class, co-taught with Tim Toland, RLA, will review the critical elements and important design considerations of constructed wetlands, including the proper selection and installation of plant materials. Class exercises will include locating, sizing, and developing stormwater wetland planting plans for specific project sites.

5. The New Blue II : Updates to the NYSDEC E&SC Manual; 06-22-2016 ~ 7.0 PDH available for this course.

Back by popular demand, Don Lake returns to share in more detail the familiar and new E&SC practices for Runoff Management, Soil Stabilization, and Sediment Control that are defined in the 2016 edition of the Blue Book that he has authored. Class exercises will include site assessment and planning for various types of development sites, as well as the development of E&SC plans and construction sequences. A virtual site construction inspection will also be a part of the class, as will design examples for some of the more complex practices.