

# 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](http://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](http://www.saratogastormwater.org)

Central NY SW RTC~ Onondaga County  
[www.cnyrpd.org/stormwater](http://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](http://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)

<b>PROJECT DESIGN</b> —\$225 Wednesday February 21st, 2018	
<b>ADAPTING to CLIMATE CHANGE</b> —\$225 Thursday March 22nd, 2018	
<b>SW FILTRATION/INFILTRATION</b> —\$225 Thursday April 19th, 2018	
<b>STREAM RESTORATION</b> —\$225 Thursday May 22nd, 2018	
<b>SMALL DAM DESIGN &amp; INSPECTION IN NY</b> —\$225 Tuesday June 19th, 2018	
<b>TOTAL REGISTRATION FEES \$</b>	
<b>\$125 Discount for Registering for all 5 courses, One-time Fee: \$1,000.00 (just check the box)</b>	

**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  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.

**If paying by credit card we strongly encourage you to protect your information.**

Double-check the email recipient-list and/or fax number before sending us your registration. Payment information is not kept on file.



**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. PROJECT DESIGN ; 02-21-2018 ~ 7.0 PDH**

This comprehensive class will guide participants through the many steps of site planning, design, evaluation and reporting necessary for obtaining NYSDEC stormwater permit coverage in New York. We will work with a specific site (different from previous year's) beginning with the evaluation of pre-developed conditions and project objectives. Site planning, stormwater practice selection and design will follow. Computations for WQv, CPv, OBv, ExSv, and RRv will then be completed. The class will conclude with the completion of the project's SWPPP outline, the NOI, and the establishment of a maintenance program for the site's stormwater facilities. Representatives from NYSDEC Central Office may also participate in the class, providing an opportunity for participants to interact directly with the regulatory agency on issues relating to the Construction Permit and Design Manual.

**2. ADAPTING to a CHANGING CLIMATE –  
co-instructor Jayme Thomann; 03-22-2018 ~ 7.0 PDH**

Communities across New York are experiencing an ever-increasing variability of weather conditions that adversely affect local flooding and water quality. Old assessment models, design standards, and community policies may not be capable of providing the desired results in the changing climate. This class will examine how climate change is impacting precipitation, runoff and the criteria that is used to establish the design standards for stormwater management and floodplain regulations. Recent precipitation trends will be examined, and the class will explore alternative design criteria that can be used to assess and adopt projects and communities to these trends. One of the key elements for adopting landscapes to climate change is resilience. Numerous retrofitting techniques and designs for "softening" hard-scapes will also be examined, as well as fresh approaches to floodplain assessment and development.

**3. STORMWATER FILTRATION and INFILTRATION PRACTICES; 04-19-2018 ~ 7.0 PDH**

Filtration and infiltration are effective mechanisms for stormwater pollutant removal, and are present in many stormwater management practices employed for water quality treatment and runoff reduction. This class will examine the essential aspects and design standard of stormwater practices that use filtration and infiltration, including initial design considerations, evaluation of options, testing, sizing, construction, and most importantly: long term maintenance. Numerous design examples, case studies and class exercises will be provided.

**4. STREAM RESTORATION –  
co-instructor Tim Toland ; 05-22-2018 ~ 7.0 PDH**

Many of our waterways have lost their natural resilience due to erosion, sedimentation, flooding, urbanization, and manipulation. This class will explore the natural stream restoration techniques developed by CWP, NYSDEC, USACE, and NRCS that can be used to restore the resilience of waterways, and to reduce flooding and pollution impacts. Beginning with assessment techniques for watersheds, soils, channels geomorphology, and bed-loads, the class will then explore the numerous site specific practices available for clean-up, repair, and restoration of stream channels, including bio-engineering, de-channelization, revetments, j-hooks, drops, jacks, deflectors, weirs and veins.. Numerous design examples and case studies will be provided.

**5. SMALL DAM DESIGN & INSPECTION in NEW YORK—  
co-instructor Don Lake; 06-19-2018 ~ 7.0 PDH**

In the age of climate change, the importance of building and maintaining sound dam structures is essential for safely managing the changing rates and volumes of precipitation and runoff. Many stormwater management practices include elements of small dams in their design and construction. Following the NYSDEC's *Guidelines for Design of Dams*, this class will review the critical elements involved in designing, building and maintaining small dams in New York, including: permitting and evaluation requirements, hydrology, hydraulics, types of spillways, hazard classifications, breach analysis, and the development of emergency action plans. The class will also explore the history of dams in New York state, and techniques for inspecting and retrofitting existing dams Numerous design examples and case studies will be provided.