

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
<http://www.cnyrpd.org/stormwater/?2018-Stormwater-Training-Series-185>

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

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

Please Register Me for the Following:
(includes all course materials, refreshments, and lunch)

GREEN INFRASTRUCTURE —\$225 Thursday January 23rd, 2020	
REDEVELOPMENT AND RETROFITS —\$225 Thursday February 20th, 2020	
THE STORMWATER CONSTRUCTION PERMIT —\$225 Tuesday March 31st, 2020	
MS4 PERMIT: MINIMUM CONTROL MEASURES—3 AND 6 —\$225 Thursday April 23rd, 2020	
TOTAL REGISTRATION FEES \$	
\$100 Discount for Registering for all courses, One-time Fee: \$800.00 (just check the box)	

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

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

OR

OR
Save the registration

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 24 hours 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 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. Green Infrastructure; 01-23-2020 ~ 7.0 PDH available for this course.

Green Infrastructure (GI) practices have become the newest stormwater management tools. Even though it may still be considered an evolving technology, the benefits of GI over more conventional "hard" management techniques are well known. In particular, GI's ability to reduce runoff and provide climate change resilience has been firmly established. Many GI practices are now in place, and are performing with varying levels of success. Future design can benefit from some of the "lessons learned." This class will examine the design details, practical applications, and critical elements of the various GI practices that are necessary for long term performance. Proper plant selection, planting and care of the "green" elements of GI will be emphasized, as well as techniques for making GI practices "people friendly". Working with a specific site, participants will prepare a green infrastructure plan that incorporates appropriate structures, as well as complete a properly prepared planting plan. We will also review the important elements of planting installation and maintenance that can lead to the survival, long term performance, and community acceptance of projects.

2. Redevelopment and Retrofits; 02-20-2020 ~ 7.0 PDH available for this course.

This class will cover two specific applications of stormwater Management and Land Planning: Redevelopment and Retrofits. After decades of living with the effects of unchecked urban sprawl and the rapid decline of open space, re-development presents a refreshing alternative, which can also significantly reduce stormwater impacts. Chapter 9 of the NYSDEC Stormwater Management Design Manual is dedicated to the unique design standards on re-development sites. The section of the class will provide design examples, class exercises and case studies. Retrofitting the urban landscape with green infrastructure has proven to be a very effective tool for municipalities to improve water quality, and reduce runoff in impaired watersheds. The class will explore the numerous retrofitting opportunities and the techniques that can be employed to transform the conventional, hardscapes of developed areas to a more resilient form. Design examples, class exercises and case studies will be presented along with the components of a successful municipal retrofitting program.

3. The Stormwater Construction Permit; 03-31-2020 ~ 7.0 PDH available for this course.

The Stormwater Construction permit is the template for designing Stormwater Pollution Prevention Plans (SWPPPs) for development projects. This comprehensive class will guide participants through the many permit conditions and requirements pertaining to various development scenarios, as well as the steps of site planning, design, evaluation and reporting necessary for obtaining NYSDEC stormwater permit coverage in New York. The class will begin with a thorough review of the latest version of the permit by NYSDEC personnel from Central Office. Then, beginning with the evaluation of pre-developed conditions and project objectives, the sequential process of site planning, stormwater practice selection Erosion & Sediment Control design and SMP design will be reviewed. Hydrology computations for WQv, CPv, OBv, ExSv, and RRv will then be covered. The class will conclude with a review of the SWPPP outline, the Notice Of Intent (NOI), and the establishment of maintenance programs. The class provides a unique opportunity for participants to interact directly with the regulatory agency on issues relating to the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activities Permit and Stormwater Management Design Manual.

4. MS4 Permit: Minimum Control Measures 3 and 6; 04-23-2020 ~ 7.0 PDH available for this course.

Two critical obligations required by the NYSDEC SPDES General Permit for Municipal Separate Storm Sewer System (MS4) operators are to prevent illicit stormwater discharges (MCM 3 – Illicit Discharge Detection and Elimination; IDDE), and to prevent pollution from municipal facilities and operations (MCM 6 –Pollution Prevention and Good Housekeeping). This class will focus on the fundamental requirements of both MCMs, including proven strategies for compliance, mapping strategies, as well as highlighting some of the more advanced strategies to help meet future permit requirements. This class, co-instructed with Andy Sansone of Monroe County, will review the elements of successful municipal IDDE and Pollution Prevention programs, with case studies, mapping tools and class exercises. DEC personnel from Central Office will also be present to provide a brief update and summary of the pending updates to the MS4 general permit.