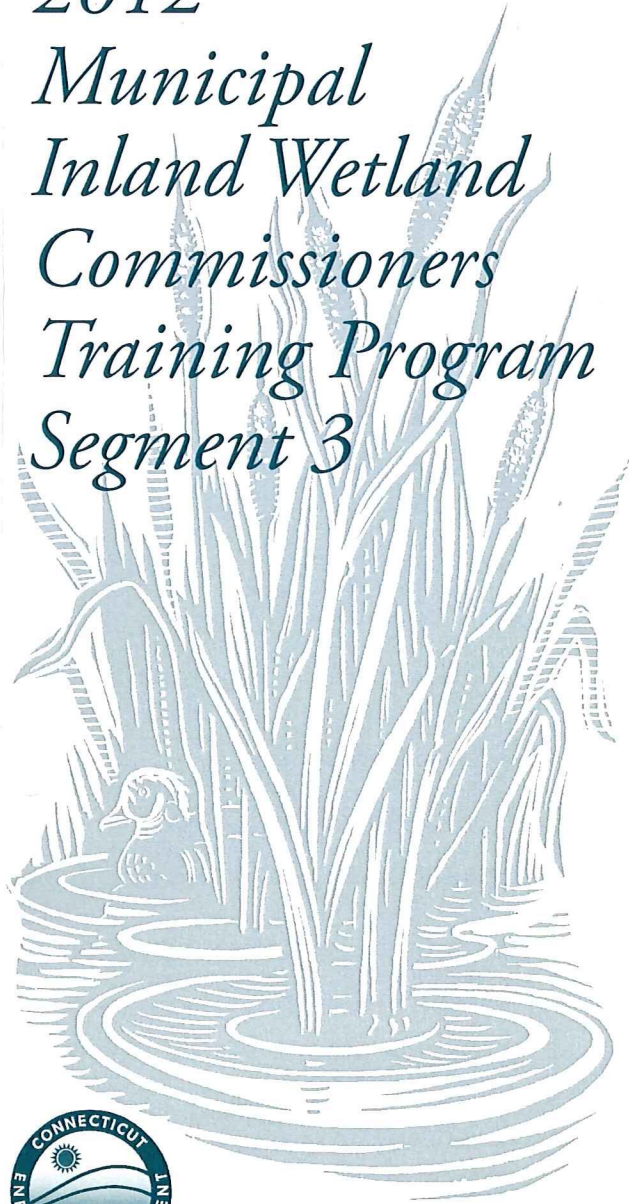


2012 Municipal Inland Wetland Commissioners Training Program Segment 3



State of Connecticut
Department of Energy
& Environmental Protection
79 Elm Street, Hartford CT 06106-5127
www.ct.gov/deep

The 2012 Training Program

The Municipal Inland Wetland Commissioners Training Program is presented by the Connecticut Department of Energy & Environmental Protection (DEEP) Wetlands Management Section. Pursuant to the General Statutes of Connecticut Section 22a-39, the DEEP is charged with developing a comprehensive training program for inland wetlands agency members and staff. The training program, offered annually, covers a broad range of legal, administrative and scientific subjects relevant to municipal inland wetlands regulation.

Who should attend?

The Municipal Inland Wetland Commissioners Training Program is intended for Connecticut's 171 municipal inland wetlands agencies. The training program is organized into three segments in order to meet the varying needs and diverse backgrounds of agency members and staff. The three segments are designed as follows:

- Segment 1 is tailored for new agency members and staff.
- Segment 2 is recommended for all agency members and staff.
- Segment 3 is designed for agency staff (wetland agents) and experienced agency members.

Is pre-registration required?

Due to limited enrollment, participants must pre-register. Registration is on a first-come, first-served basis with priority being given to inland wetlands agency members and staff. Registrants will receive confirmation and directions online or in the mail.

What happens if a program segment is cancelled or rescheduled?

The DEEP reserves the right to cancel or reschedule the training program. Registrants will be notified at the earliest possible time and offered a different date/location. If the participant is unable to switch to a different date/location any paid registration fees will be refunded in full.

Can a refund be made if a participant needs to cancel?

Registration fees are refundable only if cancellation is received 48 hours prior to the start of the program. If cancellation is received with less than 48 hours notice the participant will be charged the full program fee. Registration fees for the Segment 1 online course are refundable only prior to December 1 and if the registrant has not entered the online course. **These cancellation policies apply to voucher registrants as well.** To cancel, please call 860-486-3331.

Are program registration fees waived for any reason?

CT General Statute Section 22a-42(d) provides that the DEEP waive program registration fees for one person from each town. A voucher for Segment 3 of the 2012 Municipal Inland Wetland Commissioners Training Program has been sent to each town's inland wetlands agency with instructions on its use. To receive complimentary registration, the designated representative must include the **original DEEP voucher** with the mailed registration form or use the voucher code with online registration.

Participants that register for a Segment using the voucher and fail to attend, or fail to cancel at least 48 hours prior to the start of the program, will be charged the full program fee.

Which segment meets the agent training requirement pursuant to CT General Statute Section 22a-42a(c)(2)?

The Statute requires duly authorized agents to complete the DEEP's comprehensive training program before the above authority can be delegated to them by their inland wetlands agency. The DEEP issues a certificate to any member of a municipal inland wetlands agency or staff who completes the training program offered annually. Such certificate is proof that the training requirement has been met.



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Important Program Details

- Choose only ONE workshop topic and date when registering for Segment 3.
- The **vernal pool** workshop is from 9:00 AM to 3:00 PM. Morning refreshments and a one hour lunch break will be provided. Please remember to bring a lunch or be prepared to purchase one at a nearby establishment. The afternoon portion of the workshop involves walking on uneven ground. Appropriate hiking footwear or boots is strongly recommended.
- The **stream monitoring** workshop is from 9:00 AM to 12:30 PM and will be conducted indoors. A hands-on activity will be provided in the classroom. An optional stream monitoring demonstration will occur outside immediately following the workshop from 12:30 PM to 1:30 PM. Morning refreshment will be provided however there will be NO lunch break. Those participants wishing to view the stream monitoring demonstration may want to bring a snack. Appropriate walking footwear is recommended for the field portion.
- Workshops will be held rain or shine. In the case of severe weather, the afternoon field portion may be cancelled.
- Due to workshop class size and field constraints pre-registration is required. No walk-in registrations allowed.
- If you cannot attend please cancel by calling 860-486-3331. Cancellation must be received at least 48 hours prior to the start of the program for a refund.

Workshop Descriptions

Vernal Pool Ecology and Monitoring

Under Connecticut's Inland Wetlands and Watercourses Act, vernal bodies of water are considered "watercourses." These bodies of water come in different sizes and shapes and may, or may not, support certain organisms. All vernal bodies of water are considered watercourses under the Act.

One kind of vernal body of water is the 'vernal pool.' Vernal pools provide important habitat for a high diversity of organisms including species with life cycles adapted exclusively to this specific watercourse. Vernal pools are also ecologically connected to the surrounding upland. Natural and human-influenced changes in land use and cover around vernal pools can influence the biological community and ecology of the pool.

This Segment, held at the Connecticut Forest and Park Association in Middletown, will provide a brief review of the authority Connecticut's municipal inland wetlands agencies have in relation to these unique watercourses; present an overview of the ecology of vernal pools, including vernal pool identification in various seasons; and discuss the Connecticut Association of Wetland Scientists Vernal Pool Monitoring Program. Hank Gruner, Vice President, Programs, Connecticut Science Center, and Ed Pawlak, Principal, Connecticut Ecosystems, LLC, will assist with this workshop.

Benthic Macroinvertebrates: What These Organisms Can Tell Us About the Health of a Stream

Small watercourses, such as streams, are homes to lots of tiny animals that live on and under the rocks, on the water plants, or on bits of wood lying in the stream. These animals include larval insects, clams, mussels, worms, and leeches. Collectively they are called macroinvertebrates - animals without backbones - and can be seen with the naked eye.

Macroinvertebrates are a good indicator of stream health. We know which species require cool water and high dissolved oxygen levels, and which species can tolerate the typical contamination from road runoff. Therefore an experienced biologist, with only a cursory examination of the benthic macroinvertebrate assemblage, can determine the site-specific conditions of a stream.

The Rapid Bioassessment (RBA) has become one of the standard methods to gather biological data. It provides for multiple site investigations in a field season and it offers a quick turn-around of results for management decisions. This information can assist municipal inland wetlands agencies when reviewing an application for a regulated activity or when evaluating proposed mitigation measures.

This segment, held at the Sessions Woods Wildlife Management Area in Burlington, will discuss riffle-dwelling benthic macroinvertebrates and the RBA method and will provide a hands-on exercise to identify macroinvertebrates and determine the health of a hypothetical stream. Chris Bellucci, Supervising Environmental Analyst, DEEP Water Quality Monitoring Program, will assist with this workshop.

Registration Form Wetlands

Segment 3 Fall 2012

Please copy this registration form for additional registrants.

Online registration:

Have credit card information ready.
Visa, MasterCard, Discover, Diners International.
<http://continuingstudies.uconn.edu/professional/dep/wetlands.html>

Mail: Enclose completed form & DEEP voucher, check or P.O.: University of Connecticut, Office of the Registrar, Wilbur Cross Building, 233 Glenbrook Road, Storrs, CT 06269-4077

Name _____
(Name as it will appear on your certificate, if applicable.)

Phone: Day (____) _____

Evening (____) _____

Preferred Mailing Address: Home Business

Street _____

City _____ State _____ Zip _____

Email _____
(of participant REQUIRED)

Date of Birth _____
(REQUIRED for online course)

Please list any special needs you may have.

The following required information must be provided for this registration form to be processed.

Check one of the following:

I am a member of my municipal Inland Wetlands Agency for the Town/ City of: _____

I am a municipal employee hired/assigned to support the Inland Wetlands Agency for the Town/ City of: _____

My title is: _____

Other, please briefly explain (i.e.: Conservation commission member, concerned citizen, consultant, etc.) _____

Certificate Group # 3311

Segment 1, Term 1123

A Primer for New Inland Wetlands Agency Members and Staff

This self-paced course remains open for registration until December 1, 2012. Coursework needs to be completed by December 15, 2012.

Fee: \$65 per Segment 1 course section

ONLINE (S102)

Registrants will receive program confirmation and course access instruction by email.

Segment 3, Term 1128

Fee: \$55 per Segment 3 course section

CHOOSE ONLY ONE SESSION

Vernal Pool Ecology and Monitoring Workshop

Friday, October 26, Middletown, CT Forest & Park Association (S301) 9:00 AM – 3:00 PM

Saturday, November 3, Middletown, CT Forest & Park Association (S302) 9:00 AM – 3:00 PM

Benthic Macroinvertebrates Workshop

Thursday, November 8, Burlington, Sessions Woods WMA (S303) 9:00 AM – 12:30 PM, optional field demonstration from 12:30 PM to 1:30 PM

Wednesday, November 14, Burlington, Sessions Woods WMA (S304) 9:00 AM – 12:30 PM, optional field demonstration from 12:30 PM to 1:30 PM

Total Fees: \$ _____
(includes handouts and refreshments)

DEEP voucher # _____ enclosed.

Check enclosed made payable to UConn.

PO# _____