

## **Advanced Training Workshop for Soil Evaluators and LSP**

**This workshop has also been approved as a Continuing Education Credit, Technical non-DEP workshop for LSPs.**

### **Reading Different New England Landscapes #1400 East Central Region (Littleton/Carlisle, MA.)**

**Presented by:**

**Peter C. Fletcher, Certified Professional Soil Scientist 02703 and Soil Evaluator 3027**

**Tuesday, November 8, 2011 (Lecture Session 1:00 PM to 5 PM) and**

**Friday, November 18, 2011 (Field Session 8:30 AM to 4:30 PM)**

**Bad Weather Date –Field Session only—Friday, December 9, 2011**

### **Workshop Description**

An important and essential skill for Soil Evaluators is to be able to interpret the landscape and assess the underlying soil/geologic conditions before digging the deep holes. Identifying the different landforms and understanding the geologic processes (glaciers, rivers, marine, wind, etc.) that formed the underlying sediments is key. With this knowledge one can visualize the landscape in a three dimensional perspective, alerting the evaluator to underlying restrictive layers, presence of silt and clay, potential for a high water table, altered/disturbed soil conditions, etc.

This course is designed for professionals who are seasoned Soil Evaluators. Instruction will include lecture and hands on exercises followed by field exercises. Participants will be given instruction during the Lecture Session on how to research reference materials on the Internet. Two or more landscapes with diverse geologic sediments will be studied for this workshop.

### **Workshop Outline**

#### **Day 1 – Lecture and Hands on exercises**

**Date: Tuesday, November 8, 2011**

**Time: 1:00 PM to 5:00 PM**

**Location: New England Forestry Foundation, 32 Foster Street, Littleton, MA. 01460  
(978) 952-6856**

**Topics Covered (lecture, hands on exercises using soil samples, and small group activities):**

- Know the geologic past
- Identify the different landforms and understand the geologic processes that formed them
- Learn the characteristics of the different geologic sediments (soil parent materials)
- Interpret the underlying groundwater system and predicting depth to seasonal high water table
- Use field method to determine soil textural classes

- Study reference materials: USGS topographic maps, surficial geology reports, published soil surveys, aerial photographs, flood insurance maps, DEP wetland maps, etc.
- Assess the underlying soil conditions, interpret these for on-site sewage disposal, and determine where to best locate deep hole testing.

## **Second Day – Field Exercises**

**Date: Friday, November 18, 2011 (Just in case: Bad Weather Date: Fri. Dec. 9)**

**Time: 8:30 AM to 4:30 PM**

**Location: Great Brook Farm, Carlisle, MA. 01741 Phone:(978) 369-6312**

### **Field Exercises:**

- Review Reference Materials
- Hand dig soil test pits using shovels and soil augers
- Traverse the landscape and identify the different landforms
- Assess the underlying geologic sediments
- Evaluate the landscape for siting on-site sewage disposal systems

**Course Materials:** Each participant will receive handouts and a field guide.

**Field Investigations:** This workshop will be conducted using hand shovels and soil augers. Participants are to bring their own field equipment (soil color book, trowel, water bottle, etc.). Soil shovels and augers will be provided by the instructor. Because this workshop focuses on “keeping your head out of the deep hole” and interpreting the landscape, there will be no excavated deep observation holes and only limited field testing using hand tools.

**Field Conditions:** The field exercises for this workshop are strenuous and require participants to traverse rough terrain, walk long distances, and dig test holes using shovels and augers. Each participant needs to evaluate their own health and physical conditioning before registering for this workshop.

**Field Session Weather Conditions:** Participants should come properly dressed for the field and wear appropriate clothing for the weather conditions. Field Session: If the weather conditions are extreme (driving rain and lightning), participants will be notified via the Internet and the second day of the workshop will be rescheduled to the Rain Date: Tuesday, April 19, 2001.

**Refreshments and Lunch:** Snacks and drinks will be provided. Participants are to bring their own lunches for the field exercises on the second day.

**Driving:** Because challenging field sites are essential for the success of this workshop, participants may be required to drive considerable distances between field sites.

**Attendance:** All participants are required to be present during the times stated for the two-day workshop. Attendance will be taken at the start and close of each day.

**Limited Enrollment:** To allow for small group instruction/discussion, enrollment for this workshop is limited to 20 participants.

## **Certificate of Completion for combination SE and LSP participants:**

### **1. SE participants-- AND**

**2. All LSP participants only or in combination with SE 10 Training Credit Hours:** A Standard Course Continuing Education Attendance Certification Form that will be given to each LSP participant who successfully attends the two-day workshop. Complete the LSP form and send to the LSP Board. **AND** A Certificate will be awarded to each participant who successfully completes the two-day 10 Training Credit Hours (TCH). The approving authority NEWIPCC will be notified in writing. You may be requested to send them a photocopy of the SE Certificate of Completion for the 10 TCH for SE certification renewal.

**Keep the Certificate of Completion for SE 10 TCH :** A list of participants and their SE number is sent to NEIWPC when the participant completes the 10 credit hour workshop.

**Lost SE Certificate Policy:** There will be a \$50 fee per SE and/or LSP for researching records and the reissue of a SE Certificate of Completion and/or Standard Course Continuing Education Attendance Certification Form. Each request and the fee must be received by mail addressed to: Peter Fletcher, PO Box 141, Bridgewater, MA 02324.

**See the next 2 pages for the Registration and Liability Form**

**Registration Form**  
**Reading Different New England Landscapes Workshop**  
**Central East Region 2011**  
**November 8 (lecture) and November 18 (field), 2011,**  
**Bad Weather Date: Dec. 9 (field only)**

Print Name: \_\_\_\_\_

**Name as shown on Official State Soil Evaluator List (please print):**

If appropriate, Soil Evaluator Number: SE# \_\_\_\_\_

Organization/Business: \_\_\_\_\_

Position/Title: \_\_\_\_\_

Address: \_\_\_\_\_ Town: \_\_\_\_\_

State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Cell or Telephone: \_\_\_\_\_ E-mail: \_\_\_\_\_

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Fee for only LSP 10 Continuing Education Units workshop: \$250.00

Fee for both LSP 10 Continuing Education Units and Soil Evaluator 10 TCH: is \$300

**Made check payable to: Peter Fletcher**

**Mail Check, Registration and signed Liability Form to:** Peter Fletcher

(No credit card)

PO Box 141  
Bridgewater, MA 02324

# Release of Liability Agreement

**Peter C. Fletcher**

In consideration of being allowed participation, I agree, on behalf of myself, my assigns, executors, and heirs, to release and indemnify and hold harmless Peter C. Fletcher from any cause or action, claims or demands, or any nature whatsoever, including but not limited to any claims of negligence, which I, my heirs, representatives, executors, administrators, and assigns may now have, or have in the future against Peter C. Fletcher on account of personal injury, property, damage, death or accident of any kind arising out of or in any way related to my presence at or participation in any activity, event or workshop, including traveling to, training for, being instructed in or participation in any of the above named events, workshops, or activities. I understand that I am releasing Peter C. Fletcher for any and all claims for injuries or damages arising out of Peter C. Fletcher's negligence including, but not limited to the temporary or permanent muscle strain or soreness, sprains, strains, cuts, abrasions, bruises, ligament and/or cartilage damage, fractures, spinal injuries, head injuries, eye injuries, disfigurement, paralysis, internal injuries, organ damage or death. I recognize that there are other risks of injury that may occur by my participation, which are not possible to specifically list. It is the clear intent of this release agreement that the participator is releasing Peter C. Fletcher, his trustees, officers, agents, employees or instructors from any and all liability for any personal injury or property damage caused by Peter C. Fletcher's negligence of any and all agents, employees or instructors.

I understand, have read this release and, understand its terms.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print First Name: \_\_\_\_\_ Print Last Name: \_\_\_\_\_