Directions

Antioch University New England is located at 40 Avon St. in Keene, NH.

From the North on Route 12 or Route 9. Drive until you see the West Street Exit. Turn left at the bottom of the ramp, go through two lights and immediately turn right on to Avon Street just before the Irving gas station.

If you are coming into Keene on Route 101, follow 101 to Route 12 North, get off at West Street exit, turn right at bottom of ramp, go through one light, turn right on to Avon Street just before the Irving gas station.

The workshop will begin in room 101.

This workshop is sponsored by:

NH Association of Natural Resource Scientists

and

ANTIOCH UNIVERSITY NEW ENGLAND

New Hampshire Association of Natural Resource Scientists
PO Box 110
Concord, NH 03302

NHANRS
and
Antioch University New England
present

Habitat Restoration and Streambank Stabilization Techniques

Thursday, October 18, 2018
1:00 – 5:00 pm
at
Antioch University New England
40 Avon Street
Keene, NH

Habitat Restoration and Streambank Stabilization Techniques

Thursday, October 18, 2018

Agenda

1:00-2:00	Classroom session (Room 101)
2:00-5:00	Field work

CONTINUING EDUCATION

Four (4) contact hours

Registration limited to 15 participants.

WORKSHOP DESCRIPTION

The purpose of this habitat and stabilization workshop is twofold: 1) share TU's field techniques for installing instream large-wood projects to create or improve aquatic habitat for trout and 2) outline how large wood can mitigate floodwater damage during high flow rainfall events. Our goal is to communicate the where, when, and how to complete successful aquatic habitat projects. We will review successful methods of improving floodplain access and sediment retention whereby improving flood resiliency and riparian eco-systems.

Critical to the success of this habitat work is to stabilize entire riverine ecosystems by reducing excessive downstream sedimentation while at the same time providing for naturally occurring sediment transport. The goal of our work is to use natural materials, such as large trees, root wads, and rebuilt riparian buffers to create flood resilient landscapes. These types of structures also create amazing natural habitat cover that are self-sustaining features.

WORKSHOP DESCRIPTION (Cont'd.)

We will discuss survey techniques, modeling, monitoring, and implementation. We will also visit a local restoration site to evaluate a recently completed stream restoration one year after implementation; we will highlight the long-term benefits of adding large-wood to this reach.

Vulnerability of infrastructure is evaluated by modeling a culvert's hydraulic capacity based on streamflow predictions. Results then help communities evaluate minimizing emergency repairs to infrastructure and maximize savings by proactively addressing restoration opportunities.

PRESENTERS

Colin Lawson joined Trout Unlimited (TU) in 2009 as the New England Culvert Project Coordinator (NECP). His focus is on reconnecting Eastern brook trout habitat in priority New England watersheds through the removal, replacement or retrofit of currently impassable road stream crossings and other instream barriers. Colin's graduate work in environmental science concentrated on hydro-ecology at Antioch New England University in Keene, NH. His thesis was on modeling the hydraulic capacity of stormwater infrastructure.

Erin Rodgers, Ph.D., Field and Research Manager for NECP, recently completed her doctoral degree at Antioch University New England during which time she studied the effects of Hurricane Irene and Tropical Storm Lee flooding on stream communities and the population dynamics of brook trout in the Delaware Water Gap National Recreation Area. Having joined Trout Unlimited's New England Culvert Project in 2011, Erin now leads much of the field work in Vermont, western Massachusetts, and western New Hampshire. She focuses on assessing the links between aquatic organism passage and flood vulnerability of bridges and culverts, then working with towns and other agencies to replace the worst structures. She has also started to increase the number of in-stream habitat restoration projects as well as establish a new research and monitoring program for NECP.

REGISTRATION FORM

Name: _____

Address: _____

_____

Phone: _____

Email: _____

Check #: _____

Pre-registration is required.
Registration is limited to 15 participants.

REGISTRATION FEE (please circle)

NHANRS Members	$40.00
Students	$30.00
Non-Members	$55.00

Please notify us if you have any special needs in order to participate so we can make the necessary arrangements.

Mail your registration form and check (payable to NHANRS) by October 8, 2018 to:

NHANRS
PO Box 110
Concord, NH 03302

Or register online using PayPal at NHANRS.org

Please note: You will not be added to the registration list until payment is received.

No refunds for cancellations

Contact Amanda with any questions:
assistant@nhanrs.org
Ph: 603-224-0401