

Session Descriptions

9:15 – 9:45 a.m. Plenary

Campsteading and the Value of Place

Derek P. Brereton, PhD, Adrian University, Michigan

The campstead is an American institution. For ten years Derek has worked to describe and explain that institution, using the old camps at Squam as his “natural laboratory.” This led him to consider the nature of place attachment, the sorts of experiences that can foster it, and the historical trends that produce such experiences. The upshot is a sustained argument for the preservation of old camps and open spaces.

Derek teaches anthropology, sociology, and evolutionary psychology at Adrian College, Michigan. His first book “Campsteading: Family, Place, and Experience at Squam Lake, New Hampshire” has just been published by Routledge.

10:00 – 10:50 a.m. Concurrent Session I

A. Comprehensive Shoreland Protection Act Update:

Jason Aube, Shoreland Program Outreach Coordinator, NH Department of Environmental Services

This presentation will provide an overview of the Comprehensive Shoreland Protection Act (CSPA), including amendments effective September 13, 2009, and a review of the shoreland impact permitting process with an emphasis on how to avoid common pitfalls when applying for a new shoreland permit.

B. Estate Planning for Waterfront Property Owners – How to Keep the Family Camp in the Family

Warren Lake, Attorney, Salloway & Hollis, PLLC

Waterfront properties represent a unique family asset. Many owners would like to preserve their properties for their children, grandchildren, and generations beyond. Legal techniques can be employed as part of an overall estate plan to insure that future generations will have the opportunity to continue to enjoy these special family properties. The presentation will review the importance of estate planning, the pitfalls of not planning that can lead to family discord and lawsuits, and estate planning solutions. The use and formation of a New Hampshire limited liability company to hold title to these properties will be discussed and compared with other options such as trusts, corporations, and partnerships.

C. Low Impact Development Stormwater Retrofits at Several New Hampshire Lakes

Steven Roy, Principal, Geosyntec Consultants, Inc.

Low Impact Development (LID) stormwater retrofits can be an important approach to reducing sediment, nutrients and bacteria loads from stormwater to New Hampshire lakes. This presentation will present a brief overview of LID and then examine actual case studies from LID retrofit projects at several NH lakeshore communities. LID techniques include rain gardens, bioretention, porous surfaces, water quality swales, vegetative buffers and other approaches to disconnect, decentralized and distribute stormwater runoff.

D. Planning Effective Outreach Programs for Protecting or Restoring Water Quality

Barbara McMillan, Outreach Coordinator, NH Department of Environmental Services

From defining your outreach goals and identifying your target audience to evaluating your program, this session will provide some basic tools to assist an organization in developing and implementing an effective outreach plan focusing on water quality and related issues. A New Hampshire pilot project will be highlighted that includes an outreach program tailored specifically for local issues, surveys on existing behavior and perceptions, interviews and work sessions to identify barriers and incentives to changing residents’ behavior, and program evaluation.

E. Limnology 101: Lake Sampling and Plant Identification (boat field trip)

Robert Craycraft, Educational Program Coordinator, University of New Hampshire Cooperative Extension, and Amy P. Smagula, Limnologist/Exotic Species Program Coordinator, NH Department of Environmental Services

Join this excursion onto Squam Lake to conduct hands-on water quality sampling and plant identification. Bob will discuss the rationale behind standard water quality measurements. Amy will point out and discuss aquatic plant zonation, common aquatic plants within each zone, and tips for identifying these species. Dress for the weather and be prepared to get your hands a little mucky! *There is a \$10 fee to cover the cost of the boat rental.*

A. Vegetation Limitations within the Protected Shoreland

Jason Aube, Shoreland Program Outreach Coordinator, NH Department of Environmental Services

This outdoor session will provide a hands-on lesson relative to understanding the vegetation requirements and limitations within the waterfront and natural woodland buffer zones. Emphasis will be added to understanding the “Unaltered State” requirement within the natural woodland buffer zone.

B. The Water Recreation Opportunity Spectrum: Adaptations for the Northeast

Dr. Joshua Carroll, Assistant Professor, Recreation Management and Policy Department, University of New Hampshire

As demand for water-based recreation increases and becomes more sophisticated and diverse, many managers of lakes and rivers are forced to consider conflicting interests and natural resource concerns. The Water Recreation Opportunity Spectrum (WROS) can be a valuable tool in these situations because it provides managers with a framework and procedure for making better decisions for conserving a spectrum of high quality and diverse water recreation opportunities and the settings in which they occur. This presentation will provide an overview of WROS, and explain how it was recently used in the Squam Lake watershed. This presentation will also provide examples of how the WROS instrument has recently been revised to better capture conditions more typically found in the northeast.

C. Modeling the Benefits of Low Impact Development for Developable Parcels

Bob Hartzel, Senior Water Resources Scientist, Geosyntec Consultants, Inc.

Geosyntec Consultants has developed a model to evaluate the relative suitability of developable parcels in the Nagog Pond/Nashoba Brook Watershed for Low Impact Development (LID) stormwater management techniques. For each developable land parcel in the watershed, the model evaluates the net benefits of LID compared to traditional stormwater management with regard to groundwater recharge, streamflow and water quality. The model also estimates the cost of traditional stormwater techniques for each parcel, to allow for comparison to the LID scenarios. In this session, you will learn how this model can be easily applied or adapted as a planning tool for other lake and river watersheds.

D. Seven Habits for Highly Effective Social Marketing that will Protect our Lakes

Mary Ann McGarry, Associate Professor of Environmental Science & Policy, Plymouth State University

Solving the challenge of how to protect our lakes begins with educating the public—and we don’t always do this very well. The challenge is providing information that is memorable and uncomplicated in order to motivate citizens to take positive actions for stewardship. This talk will offer seven guiding principles for effective social marketing for lakes, including: “target the fourth grade level”; “less is more”; “avoid sensationalism”; “a picture is worth 100 words”; “inform, don’t advocate”; “think action”; “the 7th time is the charm.”

1:00 – 2:30 p.m. Concurrent Session III

A. Exotic Aquatic Species: Case Studies in Control

Amy Smagula, Limnologist/Exotic Species Coordinator, NH Department of Environmental Services; Chris Devine, Executive Director, Squam Lakes Association; Linda Murray, Wolfeboro Milfoil Committee; Bob Patterson, Friends of Big Island Pond and owner of AB Aquatics, Inc.

This session will focus on a variety of approaches employed in variable milfoil control efforts around the state. Three representatives from individual or area lake associations will participate in a panel discussion to share their experiences and techniques for dealing with milfoil problems in a variety of different waterbodies. Amy will introduce the session with a brief overview of the status of exotic species and management efforts in the state, and then will moderate the panel discussion focusing on how these groups are battling infestations at Squam Lake, Big Island Pond, and in waterbodies throughout the Town of Wolfeboro and beyond.

B. Squam Watershed Wildlife: Keystone Species

Dave Erler, Senior Naturalist, Squam Lakes Natural Science Center, and Harry Vogel, Senior Biologist/Executive Director, Loon Preservation Committee

This program will be teamed with a presentation by the Loon Presentation Committee and the Squam Lakes Natural Science Center (SLNSC). Dave will discuss importance of several distinctly different species of animals and their role within a watershed and live animals from the SLNSC education collection will visit the session. Harry will talk about loons, challenges facing loons, and the Loon Preservation Committee's work to safeguard New Hampshire's threatened loon population—and will answer your questions including, “Why are a loon's eyes red?”, “Why do loon chicks ride on their parents' backs?”, and “What are loons saying with those eerie calls in the night?”

C. Mapping Basins on a Budget: Low Cost and Free GIS and GPS Resources for Lake Monitoring and Watershed Management

Shane Bradt, Extension Specialist in Geospatial Technologies, University of New Hampshire Cooperative Extension

Geographic Information Systems (GIS) and Global Positioning System (GPS) can be powerful tools for effective lake monitoring and watershed management. While the complexity and cost of these technologies have historically been a barrier to their use, a wide range of low cost and easy to use options now exist for mapping lakes and watersheds. This session will cover basic GIS and GPS concepts, detail applications of GIS and GPS for lake monitoring and watershed management, and review free and low cost GIS and GPS software useful for working with lakes and watersheds.

D. Over 30 Years of Research on Squam Lakes: Lessons Learned

Jeffrey Schloss, Extension Professor and Water Quality Specialist, UNH Center for Freshwater Biology and Cooperative Extension

For over 30 years the Squam Lakes Association (SLA) and UNH have maintained a research partnership involving University faculty, students, SLA staff and volunteers. Intensive watershed and water quality studies have not only revealed some very interesting details on Squam Lake ecology but lessons learned have also been useful in understanding how New Hampshire lakes work and how our activities impact the lake water quality and biology. This field trip will highlight some of the research results our combined efforts have provided with discussion of their significance to lake science and management. See how these lakes provide for a unique “outdoor laboratory.” *There is a \$10 fee to cover the cost of the boat rental.*

Exhibitor Presentation Sessions

2:45 – 3:15 p.m. Concurrent Exhibitor Presentation Session I

A. Septic Systems: The Dos and the Don't

Gary Spaulding, President, Wastewater Alternatives, Canterbury, NH

B. Watershed Planning 101: Essential Components of an Effective Watershed Management Plan

Bill Arcieri, Senior Water Resources Scientist, Vanasse Hangen Brustlin, Inc., Bedford, NH

C. Using Herbicides to Control Invasive Watermilfoil in New Hampshire

Marc Bellaud, Senior Biologist, and Erika Haug, Biologist, Aquatic Control Technology, Inc., Sutton, MA

Attend the Lakes Congress and enter the raffle to win a kayak!