

Enhancing the States' Lake Management Programs

On the edge: enhancing ecological integrity of shorelines

PRE-CONFERENCE WORKSHOP:

Landscaping at the Water's Edge: Ecological Designs for Water Quality and Habitat Improvement

April 14, 2009; 9 a.m. – 4 p.m.

- 9:00-9:30 am **Introductions, Audience Expectations, Overview of Day** – *All Attendees; Jeff Schloss*
- 9:30-10:00 am **Addressing Environmental Functions of a Natural Shoreline: Important Considerations** – *Mary Blickenderfer*
- 10:00-10:30 am **Soils: Why They Matter to Revegetation and Erosion Control Work** – *Patrick Goggin*
- 10:30-10:45 am **BREAK**
- 10:45-11:30 am **Site Analysis and Erosion Control** - *Jeff*
- 11:30 am-noon **Shoreline Erosion Control - Bioengineering** - *Mary*
- noon-1:00 pm **LUNCH** (provided)
- 1:00-1:15 pm **10 Ecological Design Principles/Design Concepts/Functions** (ecological & social) - *Jeff*
- 1:15-1:30 pm **"Shoreland Restoration: A Growing Solution"**: overview video - buffer functions; steps - *Patrick*
- 1:30-2:15 pm **Shoreland Restoration Plans / Plant Choices / Establishment Tips / Maintenance** - *Patrick*
Obtaining the Right Vegetation and Materials, Source Seeds, Seed Banks, etc. - *Mary*
- 2:15-2:30 pm **Community-Based Social Marketing Concepts** - *Team*
- Burnett County, Wisconsin: Shoreline Protection Partnership Study Results - *Mary*
 - Lake Ripley Rain Gardens - *Patrick*
 - New England Turf Project - *Jeff*
- 2:30-2:45 pm **BREAK**
- 2:45-3:00 pm **Starting a Shoreland Restoration Program From the Ground Up** - *Team*
- One-Page Fact Sheet to Help Lead a Conversation – *Patrick*
 - Demonstration Sites - *Mary*
 - Incentive Programs – *Patrick*
 - Youth Programs - *Jeff*
- 3:00-3:15 pm **State of the Research**
- Monitoring, Incorporation of Demo Sites, Long-Term Inspections, What Needs to be Monitored? - *Mary*
 - Wisconsin Lakeshore Restoration Project - *Patrick*
- 3:15-4:00 pm **Synthesis, Final Discussions and Questions, Evaluation** – *All Attendees*

Workshop Presenters

Jeffrey Schloss

Coordinator, New Hampshire Lakes Lay Monitoring Program
Extension Professor in Biological Sciences and Extension Specialist, Water Resources
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Past President, North American Lake Management Society: <http://www.nalms.org>

Jeff joined UNH CE in 1989. He holds a joint appointment as a Research Scientist in the UNH Center for Freshwater Biology and as a Water Resources Specialist with UNH Cooperative Extension. Since 1986, he has been the coordinator of the New Hampshire Lakes Lay Monitoring Program (NH LLMP), a grass roots lake and tributary monitoring program initiated in 1979. Past employment and appointments include research work in biology, water quality and aquatic ecology with the Smithsonian Institution Radiation Biology Laboratory, U.S. National Park Service, U.S. National Institutes of Health, U.S. Environmental Protection Agency, Naval Research Laboratory and the U.S. Geological Survey. Jeff teaches classes in Aquatic and Hydrologic Science, Watershed Ecology and Lake Management.

Mary Blickenderfer

Extension Educator - Shoreland Education
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Mary works primarily on developing and delivering workshops on shoreland design and landscaping, shoreland plant identification, and shoreland erosion control. Each year she coordinates installation of several shoreland demonstration and research sites. She also works with plant nurseries to develop a native shoreland plant market that will meet increasing regional demands. Her recent research has been in bioengineering, native plant propagation, and adaptations of regional plant ecotypes. Mary's past work experience includes developing and coordinating a native plant program and conducting botanical surveys for the Hiawatha National Forest. She has also taught mathematics at Michigan Technological University and Itasca Community College.

Patrick Goggin

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During the last 20+ years Patrick has worked on assorted water issues throughout Wisconsin. In his current position of Lake Specialist for UW-Extension Lakes, Patrick works closely with the Wisconsin Lakes Partnership team, collaborating on the development of educational programming and materials for people of the lakes. Areas of interest for him include lake districts and water law, human impacts on water, lake ecosystems, shoreland restoration education and research, and the native flora of Wisconsin. Patrick's past work experience includes heading a county-level land and water conservation department for six years, field seasons completing rare plant surveys for the Chequamegon-Nicolet National Forest, time spent doing environmental education and program development for the Forest Service icons Smokey Bear and Woodsy Owl, and working for a private ecological consulting firm.