



NEWS

North Carolina Lake Management Society P.O. Box 18663 Asheville, NC 28814
www.nclakemanagement.org nclakemanagementsociety@yahoo.com

You Got Questions?

We Got Answers!

What is NCLMS?

It is an acronym for North Carolina Lake Management Society.

What is the purpose of NCLMS?

NCLMS mission is to promote the understanding, protection and comprehensive management of lakes, reservoirs and their watershed systems in North Carolina. The Society is organized and operated for charitable, scientific and educational purposes.

Who are NCLMS members?

Members are involved in some way with lakes, reservoirs and watersheds. They are individuals or groups such as lake and homeowner organizations, municipalities, students, corporations, utilities, government agencies, businesses and corporations.

What does NCLMS do?

The organization provides a forum for members and others to exchange information and fosters cooperation and interaction with members and other interested parties.

What is a typical NCLMS "forum"?

We conduct spring and fall events each year. In spring 2010 NCLMS hosted the 19th Annual Southeastern Lake Management Conference. Sessions and pre conference workshops focused on "*Managing Extremes: Watersheds and Climate Disruption*". The 2010 Fall workshop was *Lake Shores: Slip Sliding Away*. (see page 4 for summaries of these events) In May 2011 a workshop, *Got Muck?* will be held at Lake Lure.

What is NALMS?

NCLMS is an affiliate member of the North American Lake Management Society. NCLMS receives various publications and emails from NALMS and we pass along appropriate information to our members via newsletters, emails and at our workshops and conferences. (See page 5 for articles from NALMS)

What is this newsletter?

The NCLMS newsletter is intended to keep members and prospective members informed about NCLMS activities and to forward appropriate information concerning lake management. The newsletter is also a member renewal and recruitment tool. Please forward to others and renew your membership.

Come On, Get on Board!

Each Spring NCLMS launches an annual membership drive. Thank you to members who renewed or joined already in 2011.

If you have received this newsletter and have already renewed your membership, please pass the newsletter and application to associates or clients who you feel should be members.....just consider yourself an ex-officio member of our membership committee!

Others who have received this newsletter are due for 2011 renewal, may have let your membership lapse for several years or may even have attended one of our workshops but not yet joined.

Whatever the case, we are encouraging you to join NCLMS and become a part of our organization that seeks to influence the protection and management of NC water bodies.

There are distinct benefits to membership in NCLMS. (see pg 3) Workshop and conference registration fees are lower for members. As a member you will receive industry, technical and educational information from NCLMS and NALMS throughout the year.

For your convenience the 2011 member application is on page 2 of NCLMS NEWS or online at www.nclakemanagement.org.

Websites of the Month

www.whatsinvasive.com

Here's a clever smart phone application that is good for the environment. By going to this website, you can learn how to locate invasive species by using your Android or iPhone. What will they think of next?

www.nclakemanagement.org

NCLMS official website for organization details, photos and general information.

Meet the NCLMS 2011 Board

President – Dean Givens

Town of Lake Lure Lake Manager
loa@townoflakelure.com

President-Elect – Dave Buetow

Mecklenburg Co., Sr. Water Quality Manager

David.buetow@mecklenburgcounty.nc.gov

Past-President – Carol Adams

Friends of Lake Glenville

casolveit@yahoo.com

Secretary – Michelle Woolfolk

City of Durham

Water Quality Manager-Storm Water Services

michelle.woolfork@ncmail.net

Treasurer - Barbara Wiggins

Wiggins Environmental Services

bswiggins@bellsouth.net

Director @ Large- Clint Calhoun

Town of Lake Lure

Environmental Management Officer

eco@townoflake_lure.com

Director @ Large – Wendy Dunaway

Fayetteville Public Works Commission

Watershed Environmental Specialist

wendy.dunaway@faypwc.com

2011 Calendar

NCLMS

Spring Workshop

Thursday, May 12, 2011

8:30 AM – 4:30 PM

Lake Lure Town Hall

Lake Lure, NC.

Topic:

Got Muck? Methods for Dealing with Muck, Sediments and Particulates

For details and program see page 10 & 11 of this newsletter or go to:

www.nclakemanagement.org

Fall Workshop and Annual Meeting

September or Early October 2011

Details TBA

NALMS

International Symposium

October 23-28 2011

Spokane, WA

For details go to www.nalms.org



North Carolina Lake Management Society
 PO Box 18663
 Asheville, NC 28814
 Federal Tax ID# 30-0117401
www.nclakemanagement.org
nclakemanagment@gmail.com

**Joining the North Carolina Lake Management Society
 is easy!**

Just complete the following form
Please Print or Type

NAME _____
 ADDRESS _____
 CITY _____
 STATE _____ ZIP CODE + 4 _____
 AFFILIATION _____
 OCCUPATION _____
 TELEPHONE _____
 FAX _____
 EMAIL _____

NCLMS Membership Categories

QUANTITY	INDIVIDUAL MEMBERSHIP RATES – DESCRIPTION	UNIT PRICE	TOTAL
	Individual	\$30.00	
	Group (Lake Organization, Homeowners, Business)	\$135.00	
	Student	\$10.00	
Subtotal			
Tax-Deductible Contribution			
Total Enclosed			

Please complete the information on this form. You can join through our website using a credit card at www.nclakemanagement.org . If you have questions, call Barbara Wiggins at 828-254-5644 or email nclakemanagment@gmail.com .

Please make all checks payable to and remit
 to:

NCLMS
 PO Box 18663
 Asheville, NC 28814

PLEASE NOTE IF BILLING ADDRESS IS DIFFERENT
 FROM MAILING ADDRESS.

Credit Card (will be run through NCLMS' BB&T acct):
 Card No# _____
 Expiration Date _____ Code _____
 Signature _____



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About NCLMS Membership

OBJECTIVES

- ◆ **PROVIDE** a forum for exchanging information and experience on the technical, administrative, recreational, and financial aspects of lake, reservoir, and watershed management.
- ◆ **FOSTER** the cooperation and interaction of public and private individuals, agencies, organizations, and units of government involved with lake, reservoir, and watershed management.
- ◆ **ASSIST** in the development of local lake and reservoir protection programs consistent with appropriate management strategies and techniques

❖ Annual Membership

- ✓ **NETWORK** with members and professionals across the state with expertise in various aspects of lake management.
- ✓ **ELECTRONIC** resources and connections with experts and other lake organizations in NC and the Southeast for problem resolutions.

❖ Annual Meeting

- ✓ **SHARE** information and management techniques to better understand and manage our state's waters.

- **2010 Lake Waccamaw State Park**
- **2009 Freedom Lake, Charlotte**
- **2008 Lake Wheeler, Raleigh**
- **2007 Lake Lure**
- **2005 Winston-Salem**
- **2003 Lake Johnson, Raleigh**
- **2005 Winston-Salem**
- **2004 Fayetteville**

❖ Workshops

- ✓ **LEARN** about important issues concerning a specific lake or river system. Meetings at the following lakes:
 - 2002 Lake Glenville- Working Together for Best Lake Management Practices**
 - 2003 Lake Norman- Reducing the Impacts of Development in the Catawba River Watershed**
 - 2006 Kenilworth Lake – Sediment Management Workshop**
 - 2007 Greensboro- Water Initiatives: What's on the Horizon for Users & Managers?**
 - 2009 Winston-Salem- Taxonomy and Ecology of Algae Newsletter**
- ✓ **STAY** abreast of important issues and findings from around the state as well as upcoming chapter activities.

❖ Education and Training Workshops

- ✓ **Provide specialized training with continuing education credits**
 - **2009 Taxonomy and Ecology of Algae Workshop**
 - **2010 Taxonomy and Ecology of Algae Workshop**
 - **2010 Stat Vs. Man Workshop**
 - **2010 Water Quality: Life and Death for Lakes: Basic Properties and Processes**
- ✓ **Traveling Workshop Topics**
 - **Sediment Management in Lakes**
 - **Storm Water & Your Lake: Storm Water Management**

❖ NALMS Conferences and Symposiums Support

- ✓ **Provides opportunities for travel and attendance at NALMS Conferences and Symposium for active NCLMS members**

GROUP MEMBERS – Additional Services:

Provide Specialized Workshops at your location that pulls in specialists and NCLMS members in order to exchange ideas and solutions to problems at specific lakes. Our group members are first in line for our workshop locations. All members of the group receive NCLMS member rates for workshops and conferences. Electronic Newsletter will be sent to all members. For our Non-Profit Group members, NCLMS also offers one individual membership for a member in your group in our national organization, NALMS. This can be either electronic or hard copy form of the newsletter, and all mailings and electronic resources provided by the national organization.



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NCLMS 2010 Event Highlights

Go to www.nclakemanagementsociety.org to see conference and workshop presentations

NC Lake Management Society Hosts Southeast Lakes Conference

The North Carolina Lake Management Society (NCLMS) hosted the 19th Annual Southeastern Lakes Conference “*Managing Extremes: Watershed and Climate Disruption*” in Winston Salem, North Carolina from May 5-7 2010 at the Hawthorne Inn. In addition to the main conference all day pre-conference workshops on *Algae Identification* and *Man vs. Stats* was held as well as a Local Stream Restoration Tour. Main conference sessions covered Technical Training, Watershed Management, Reservoir Management, Water Quality and an Open Forum for lake and home owner associations that includes a presentation on grant writing.

The Conference gathered lake management society members from throughout the Southeast. Featured speakers were federal, state and local agency and university professionals as well as prominent authorities on topics such as water quality testing, storm water, drought, reservoir and pond management and water supply issues. Exhibitors, participating companies and organizations that providing products or services to protect and preserve lakes and water bodies offered displays and professional advice throughout the Conference.

Major sponsors for the Conference included the North Carolina Department of Environmental and Natural Resources (NCDENR); U.S. Environmental Protection Agency, Region IV (USEPA); Duke Energy; Georgia Power; Tennessee Valley Authority (TVA); J.P. Optical Consulting; Mecklenburg County Water Storm Services; Peroxygen Solutions and YSI.

NCLMS Fall 2010 Workshop and Annual Meeting at Lake Waccamaw State Park

Theme: Lake Shores: Slip Sliding Away

Understanding, protecting and improving coastal lake shorelines and water quality

This one day workshop covered topics such as:

Coastal Lakes

Introduction to Bay Lakes- Dr. Stanley Riggs, ECU

Lake Waccamaw Sediment Phosphorus - Dr. Larry Cahoon, UNC-W

Lake Assessment and Algal Communities

Phytoplankton (algae) and what it means - Mark Vanderborgh, NC DWQ

NC Ambient Lake Assessment Program and More - Laura Spell & Danielle Mir, NC DWQ

Shoreline Restoration, Maintenance & Regulatory Authority

Shoreline Restoration & Maintenance- Johnny Foster, Foster Lake & Pond Management

Who's Got the Authority? Shoreline Regulation – Dean Givens, Town of Lake Lure; Dave Buetow, Mecklenburg County; Johnny Foster

12:00 – 12:30 pm NCLMS Annual Meeting and Election of Officers

As is customary the NCLMS Annual Meeting is held during the Fall Workshop. Board Members are elected at this time, officers and committees report and any business such as by-law changes is conducted.

Volunteer Monitoring – including hands-on by the lake, weather allowing

Volunteer Monitoring in WNC - Barbara Wiggins, WES and Clint Calhoun, Town of Lake Lure

Waccamaw Riverkeeper - Christine Ellis

NCLMS workshops and events are well worth attending. NCLMS members are allowed reduced registration fees and other benefits.



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Interesting Articles

From the News Record

Greensboro, NC - February 11, 2011

Greensboro City Council's Jordan Lake request gets damp reception

When Greensboro City Council visited Guilford County lawmakers in Raleigh this week the conversation may not have gone how Mayor Bill Knight and council members Zach Matheny, Jim Kee and Danny Thompson had hoped.

That's because the main focus of the conversation was the city's request for lawmakers to repeal the Jordan Lake Rules, an idea that legislators seemed to think was all wet.

Although Jordan Lake is located in the Triangle, it is fed by streams that flow through Guilford County and other parts of the Triad. Last year, the General Assembly debated and put in place rules for what cities up-stream of the lake had to do to keep the water flowing to Jordan Lake clean.

For Greensboro, it could mean about \$80 million in up-fits to water treatment plants and the like, council members said, money that the city isn't eager to shell out. (**Update:** Other estimates put the cost to the city closer to \$50 million.)

"We're looking for relief, substantial relief," Knight told lawmakers.

But the Jordan Lake rules were the subject of hours of meetings and as close a thing to an environmental knife fight as the General Assembly sees. The final bill made just about everyone unhappy and the only thing environmentally-minded lawmakers and those sympathetic to industry and up-stream cities agreed was that they were glad the negotiations were over.

"That was a pretty carefully negotiated compromise," said Rep. Pricey Harrison, a Greensboro Democrat who pushed for tighter pollution controls, saying she was "disturbed" the city was asking for the agreement to be undone.

"Mayor, we need more specifics," said Sen. Don Vaughan, a Greensboro Democrat. Stan Bingham, a Denton Republican, suggested it might be possible to look at some changes but said wholesale repeal was unlikely.

Ellis Hankins, who lobbies for the N.C. League of Municipalities, was on hand to suggest lawmakers might look at "retrofit" provisions that might require cities to redesign storm water drainage in old neighborhoods. But he, too, said that full repeal seemed less than likely.

Another request by council member to change the city charter so it is the council, and not the city manager, that hires the city attorney also got a similarly tepid reception, with Rep. Alma Adams being particularly unconvinced the change was necessary. High Point and Greensboro are among the only, if not -the only, cities in the state where managers hire the city's lawyers rather than council members.



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Interesting Articles (continued)

From NALMS (North American Lake Management Society)

Study Finds that Lakes are a Big Source of Climate-Changing Gas

OSLO (Reuters) - Lakes and rivers emit far more of a powerful greenhouse gas than previously thought, counteracting the overall role of nature in soaking up climate-warming gases, a study showed on Thursday.

A review of 474 freshwater systems indicated they emitted methane equivalent to 25 percent of all carbon dioxide (the main greenhouse gas blamed for stoking climate change) absorbed by the world's land areas each year.

Emissions of methane, released by decaying vegetation and other organic matter in rivers, reservoirs, lakes and streams, have not previously been properly built into models used to understand global warming.

EPA Webcast on Nutrients and Harmful Algal Blooms in Lakes

Our very own NALMS past president, Ken Wagner, teamed up with Russ Gibson from Ohio EPA on January 26th to give a very informative 2 hour webcast about lakes, nutrients, and how they respond. Ken Wagner gave a nice overview of nutrients in lakes and the issues with cyanobacteria blooms followed by a case study of his work on Lake Waco. Russ then talked about the recent efforts on Grand Lake St. Marys in Ohio and how they tested alum to help reduce the NPS impacts that have quickly deteriorated the lake in recent years.

The Webcast was a first in a series of Watershed Academy Webcasts on the important issue of nutrients and their impact on water resources. Over 4,000 people viewed the webcast and asked several good questions for both speakers to answer. If you missed this webcast, it is archived on the EPA watershed academy website where you can download the presentations

(http://water.epa.gov/learn/training/wacademy/webcasts_index.cfm).

A Volunteer App for iPhone to Document Watershed Conditions

A new iPhone app wants to harness the collective power of joggers, hikers, and dog-walkers to document the health of creeks. The free and simple app developed by IBM asks users to snap a photo and click buttons to indicate water level, flow rate, and trash.

In many regions, creeks are too numerous to be effectively monitored by local water boards. "There are only so many of us here in watershed protection," says Carol Boland, a city of San Jose biologist, in a video released by IBM. "And we can only see what we can see between business working hours." The app enables users to lend a hand by uploading data that IBM aggregates, analyzes, and shares with water control boards.

Citizen science projects like this have a long history; the earliest weather reports relied on amateur meteorologists but are ever more common in the digital age. Apps like this both help to grow the science, by adding more data, and could presumably ultimately help municipalities save money. Maybe with enough interest, a smart phone app can be developed for lake monitoring volunteers as well. It could document Secchi depth, water color, algal abundance, and recreational uses.

For more information on how citizens, cities, and IBM's techies worked together to improve the environment, go to <http://www.fastcompany.com/1700135/crowdsourcing-watershed-health-with-the-creek-watch-iphone-app>





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Interesting Articles (continued)

From ThomasNet News July 2010

An Idea So Crazy it Might Work: Tips for Disruptive Thinking By David R. Butcher

Stepping sideways to see things from another angle often leads to breakthrough thinking, which in turn creates new markets and topples traditional ones. Innovation is a top strategic priority for a large majority of companies today. As such, creativity — arguably the driving force behind successful innovation — is increasingly gaining recognition as the new capital in uncertain and challenging economic times. For people trying to innovate and work within a creative, adaptive culture, we offer 11 ideas for extreme outside-the-box thinking.

Although most companies today claim to value innovative thinking and thinkers, when pressure to cut costs is especially intense, such as in an economic downturn, creativity is one of the first casualties. Yet innovation is not simply about throwing funding at a team for "innovation development," nor is it necessarily about scientists working in R&D labs. Innovation thrives on breakthrough thinking, nimbleness and empowered people, not huge budgets. Companies, especially smaller ones, often depend on big ideas and creative employees to develop innovative products and services.

Developing a disruptive way of thinking allows you to see opportunities that would otherwise be hidden. Such thinking starts with creating an organizational culture open to change. This is [no easy feat](#). Even in prosperous times, leading a change initiative that fosters a culture of "trying something new" can get bogged down in bureaucracy and resistance to change.

However, for people trying to innovate and work within a creative, adaptive culture, below are 11 ideas for thinking way outside the box.

Take risks.

Without risks, there can be no worthwhile rewards. Take chances; leave your comfort zone and try something new. "The essence of making revolutionary changes is taking risks," Laurel Delaney, founder of management consulting firm [GlobeTrade](#), recently wrote at [AMEX OPEN Forum](#). "Bold risks produce bold innovation; they launch new products, services and companies; they improve workplace conditions for employees; and they may even end up changing the world."

Be willing to make mistakes.

Trying something entirely new requires a certain [willingness to fail](#). Embracing [mistakes](#), grappling with malfunctions and [incorporating them into your projects](#) can help you change your way of thinking, leading to insights and improvements. Remember that [some of the greatest inventions and discoveries](#) were initially mistakes.

Study another industry.

Subscribe to a magazine whose subject you know nothing about, or pick up a trade magazine in an industry other than your own, and "connect the dots" between that subject and your own job. "You might find that many of the problems people in other industries face are similar to the problems in your own, but that they've developed really quite different ways of dealing with them," Stepcase [Lifhack](#) advises.

Be an accidental tourist.

Be curious and cultivate curiosity. Get out of your usual habit by taking a different route to work or visiting a new store, a new restaurant, even a different coffee shop. Look at what other individuals have done and see if it sparks your creative flame. For starters, check out [Instructables](#) and [MAKE Magazine](#). A seemingly inapplicable product, service or message (advertisement) may provide an incredible idea that could be replicated in your own work.



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Listen to novices.

Ask questions — not just of the experts, but of novices as well. While the typical mindset is to find "an old sage" who has vast experience and wisdom to share, the enthusiastic, tech-savvy younger generations may give you great inspiration, Lisa Bodell, CEO of consultancy [futurethink](#), suggested in [a 2007 keynote](#). Ask children, who think and speak with an ignorance of convention that is often helpful, how they might tackle a problem. View customers as [partners in invention](#). Visit company forums and "lab Web sites," such as [Google Labs](#), where everyday users and armchair problem-solvers weigh in with their creative ideas.

Suspend judgment.

"Consider your first reaction when faced with a new idea. For tiny seedlings of ideas to grow into big innovations, we must open our minds and defer judgment," Michelle Conrad, founder of consulting firm [ThinkShop](#), advises at [Innovation Tools](#). "If it makes you laugh, pursue it further. Sometimes the most absurd suggestions lead to the best solutions. Focus on the ideas you have energy and passion for, no matter how crazy they may seem. It's much easier to rein in a silly idea than it is to expand a dull one."

Try a different angle.

Step sideways to see things from another angle. Turn something upside down, whether physically flipping a piece of paper around or re-imagining it to see patterns that wouldn't otherwise be apparent. Or work backwards, breaking your normal conception of causality. Reverse-engineer what is already there.

Value randomness and confusion.

Lifhack recommends welcoming randomness: "Developing strategies that allow for random input, working amid chaotic juxtapositions of sound and form [...] these can help to move beyond everyday patterns of thinking into the sublime." Although problems' best solutions are rational, the path to rational solutions is often barely rational. "Great breakthroughs emerge after times of dissolution, chaos and confusion," consulting firm Idea Champions says on its [Heart of Innovation](#) blog. "Jump too quickly into the next thing and you may be short-circuiting a critical stage of the (yes, often uncomfortable) creative process."

Record ideas.

Idea banking involves more than developing curiosity, observation, listening and reading — it also includes recording. While constantly seeking new information, new knowledge and new ways to do things, keep a regular record of your learnings. "The simple process of jotting their thoughts down on paper helps to expand their understanding about themselves, others and the world around them," [a separate Lifehack article](#) says of so-called creative geniuses. "Moreover, the act of journaling progressively guides their thoughts gently down creative channels that naturally expand the possibilities of reality."

Look for weak signals.

Visit the [patent office online](#) or [Google Patent Search](#) to find out what ideas are already registered. This provides a good glimpse into what's just around the corner as soon-to-be product offerings. Also, look at the long-term signals in political and environmental forces (i.e., the big picture). Refer to futurist resources such as [InnovationWatch.com](#) or (for fun) [Long Bets](#).

Be willing to scrap your original idea.

Once you have what you think is a breakthrough idea, don't put your head down and spend all your time defending that original idea. Keep refining your ideas; let them evolve. Lift your head and look around. "If you cling to ideas just because they're yours, or just because you've invested major mojo in them, then it's definitely time to rethink where you're coming from," [a separate Idea Champions piece](#) warns. Of course, brilliant ideas can be a heavy burden. "Inventing the unimplementable is a fine hobby, but it's also a bit of a crutch," according to [Seth Godin](#), best known as an extraordinary marketer, but whose ideas apply to just about any market, industry or profession. "Yes, of course we need big visions and big ideas, but not at the expense of the stuff you can actually pull off."



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Interesting Articles (continued)

From NC Boater Education

The Legal Requirements of Boating

Who May Operate a Vessel or a PWC Who May Operate a Vessel - Effective May 1, 2010

A **person younger than 26 years old** may operate a vessel with a motor of 10 horsepower or greater on North Carolina waters **only if** he or she:

- Completes and passes a boating safety course that is approved by the National Association of State Boating Law Administrators (NASBLA) and accepted by the Wildlife Resources Commission **or...**
- Is accompanied on board by and under the direct supervision of a person who is at least 26 years old **or...**
- Is accompanied on board by and under the direct supervision of a person who is at least 18 years old and who has passed an approved boating safety course.

Anyone operating a vessel with a motor of 10 horsepower or greater must:

- Carry on board his or her boater education certification card or other proof of compliance with the new law (see below) **and...**
- Make the card or other proof available upon request by an enforcement officer.

New Boating Law

For more information and exemptions on the boating law (G.S. 75A -16.2) that becomes effective on May 1, 2010, visit:

www.ncga.state.nc.us/Sessions/2009/Bills/Senate/PDF/S43v4.pdf

See the following pages 10 and 11 for NCLMS
Spring Workshop Announcement

NCLMS 2011 Spring Workshop



Got Muck?
**Methods for Dealing with
Muck,
Sediments and Particulates**
Thursday, May 12, 2011
8:30 AM - 4:30 PM
Lake Lure Town Hall
Lake Lure, NC



The North Carolina Lake Management Society



NCLMS
PO Box 18663
Asheville, NC 28814
www.nclakemanagement.org

Workshop cosponsored by:



Town of Lake Lure
PO Box 2948
Lake Lure, NC 28746
www.townoflakelure.com



Lake Lure Town Hall
2948 Memorial Hwy
(828) 625-9983

Directions: Use Mapquest
<http://www.mapquest.com/>
or Google Maps
<http://maps.google.com/>
for directions to workshop.
Also The Lake Lure Inn website
listed below has directions to
their facility which is just down
the street from the Town Hall.

Suggested Lodging:

The Lake Lure Inn
2771 Memorial Hwy
Lake Lure, NC 28746
Phone: (828) 625-2525
<http://lakelure.com>



The Lake Lure Inn has two facilities adjacent to each other.

The Historic Inn, built in 1927 for \$99/night
Beach Motor Inn for \$79/night

These rates are available to NCLMS Workshop attendees for May 10, 11 and 12, 2011.

Cut off date is April 27, 2011 to hold the rooms.

Got Muck?

Methods for Dealing with Muck, Sediments and Particulates

Thursday, May 12, 2011

8:30 AM - 4:30 PM

Lake Lure Town Hall

Lake Lure, NC

Preliminary Program

8:00 am Registration - refreshments

8:30 am Welcome and Introductory Remarks
Dean Givens, NCLMS President

11:30 Lunch - provided

4:00 End of sessions
(Four sessions - 2 in morning and 2 in afternoon)

- Field trip outside to active deposit site and trackhoe
- Tour of Lake Lure Sponsored by Lake Lure Tours

Speakers:

Lake Lure Sediment Control Efforts - Dean Givens and Clint Calhoun

Dave Braatz, Streamside Systems

Seva Iwinski, Applied Polymer Systems

Melanie McCaleb, NCSU

Daren Schatz, Hydraulic Dredging

Tim Edwards Landscaping, Trackhoe demonstration

General Q&A with State and Federal Agency staff: NC Land Resources, NC DWQ, US Corp of Engineers- invited

Speakers may change - Check the website (<http://www.nclakemanagement.org>) or call number below for more information



Yes, I will attend the Got Muck! Workshop. Register at the website or use this form. Visit website for lodging information (<http://www.nclakemanagement.org>).

Name _____

Address _____

City, State, Zip Code + 4 _____

Daytime Telephone (including area code) _____

Email address* _____

REGISTRATION

Workshop registration fee is: ___\$50 early registration	___ \$100 Vendor Registration Includes table in or near meeting room		
Indicate your choice of registration			
Onsite Registration:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center; border: none;">\$75 for all</td> <td style="width: 50%; text-align: center; border: none;">\$150 Vendor</td> </tr> </table>	\$75 for all	\$150 Vendor
\$75 for all	\$150 Vendor		
The Lake Lure Tour is included at no extra charge. Please check here if you plan to do the tour. <input type="checkbox"/>			

Fee includes registration, refreshments in morning & at breaks & lunch. Onsite registration available; however, early registration is requested. If you have special dietary request please let us know by May 6, 2011.

Pre-registration or email/phone RSVP by May 10, 2011 is strongly encouraged to ensure sufficient number of lunches, refreshments and programs. **Meals cannot be guaranteed for those registering at the door on May 12.**

Please register at the website or mail this registration form along with your check (made payable to NCLMS) to:

NCLMS, PO Box 18663, Asheville, NC 28814. Email/phone RSVP to Barbara Wiggins: bswiggins@bellsouth.net ; or call her at 828-254-5644.

Check our website for updates of speakers and workshop information at <http://www.nclakemanagement.org>.