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NALMS Notes is available for PDF download at [www.nalms.org](http://www.nalms.org)

## MESSAGE FROM THE PRESIDENT

### President's Message – NALMS Spring 2009 Is Almost Here

OK, I know that we have a month more of winter ahead (unless you live in Florida), but I am ready for spring. Yes, I am ready to see the ice melt from my favorite lakes and reservoirs. In those lakes and the ones that are already ice free, I look forward to renewal of life that is the promise of spring. I look forward to the spring's influx from a lake's watershed bringing nutrients and organics to the aquatic system. This loading to the lakes empowers the wonderful trophic cascade within the lakes that is the flow of carbon and energy from the phytoplankton through the fish to mammals and birds.



Don't get me wrong it is not the cold and darkness of winter that has gotten me thinking about spring, it is a picture of my two boys (Ryan and Michael) shown in the photo taken almost seventeen years ago. They are pictured proudly displacing their catch from the local pond. That day started early in the morning when they dug worms from the garden and cut their fishing poles from an alder tree in our back yard. Ryan and Michael simply tied fishing line to their poles (sticks), and a hook to each line. Then casted their baited lines into the pond and hoped to catch fish. Not realizing that in fact they too were part of the larger environment and were trying to become the top predator of the pond. They might not have realized it then, but it was positive step in their developing love for the outdoors and specifically fishing and being around water. It is this thought of the family joy I experienced that day, which has lead me to wish for the renewed cycle that we enjoy, study and management of lakes.

Once in a while it is good for us to step back and enjoy the simple messages the lakes send to us. It is these simple truths that call out to us to reinforce our attempts to understand nature's secrets, so that we can use this knowledge to help us manage lakes and the life that exist within. NALMS is our organization. NALMS gives us not only the connection to the technical information, but also allows us to remember the emotional ties that we have to these glorious water bodies. An important part of NALMS is the interaction of its members with each other. I encourage all of us to get involved through committee work and other activities. Just contact me or your regional director and ask how you can get more involved with the many NALMS activities. Go to [www.nalms.org](http://www.nalms.org) to find contact information for NALMS officers and directors. Your involvement will help NALMS and it will enrich your experience with lakes and reservoirs, I guarantee it.

Harry Gibbons  
President, NALMS

## WITHIN NALMS

### From the Executive Director, Susan Urbas

We regret to announce that thanks to the multifarious challenges presented by vendor interfaces - that is, the melding of both developmental timeframes and technical requirements into a unified whole - it will now be the end of February before our website is fully implemented. If you need anything in the meantime, such as access to articles in back issues of LakeLine or the Journal, contact the NALMS office and we will get you whatever it is you need. The staff shares your frustration at the delay, appreciates your continued support during

the transition, and is eagerly looking forward to the organization-wide enjoyment of its benefits.

The good news at the moment is that our new membership database is up and running, and, in fact, this newsletter represents the first iteration of our ability to send it out directly from the membership database, rather than having to send it to our web admin in order to have him prepare and send it via email blast based on a list extracted from the old membership database. So going forward, that means that once Steve Lundt has completed composition of the monthly newsletter, we will now be able to get the newsletter out to members more quickly and at less cost to NALMS.

Among other things, both the new membership database and website will bring new system stability, staff and communications efficiencies, and features to the office operation. For instance, while the old membership database required much work on the part of NALMS to overcome frequent crashes and a penchant for serendipitously deleting its own content, the technical functioning of the new membership database will be maintained by the vendor.

While the design of the old membership database limited its functioning to information capture that had to be input manually, the new database empowers the office with enhanced and automated information capture and analysis, as well as push-button communications and reporting capabilities. This will, for instance, enable the office to keep regional directors apprised of membership in their respective regions, as well as to invoice membership renewals in a timely fashion via email communication. Previously, invoicing was an often untimely, cumbersome, and costly manual drill.

Access to member only content, such as a membership directory, back issues of LakeLine and LRM, and other documents will continue to be available through the new website. But it will also include new features, such as a special login area for CLMs/CLPs that will allow them to check their status and communicate information to the staff online, a job bank where employers (rather than NALMS staff) themselves do the work of uploading employment opportunities announcements, a special section where affiliate newsletters can be posted, and enhanced exposure for our corporate members and sponsors.

In the January newsletter, I announced that as part of implementing the new membership database, we would be sending each member a new password for access to the member-only portion of the new website. That activity has now been moved up to the end of February. So watch your email box near the end of the month for an email from NALMS containing your new password. Your email address will continue to function as the user name for member only content access.

Again, we cannot thank you enough for bearing with us during this transition. We are keen to ensure that the inconvenience you have borne in the meantime constitutes a wait that was well worth it in terms of the membership benefits you enjoy going forward and the power conferred upon NALMS to move forward. [top](#)

## From the President Elect, Mark Hoyer

Hi all,

The Marketing Committee, chaired by Ann Shortelle, has been hard at work since the NALMS Symposium in Lake Louise. The Committee has developed and has now finalized a new NALMS Sponsorship Framework for sponsorship levels (by dollar amount and the benefits associated with each level) and sponsorship categories (e.g. conference sponsor, program sponsor, etc.). The NALMS Sponsorship Framework is in final formatting and will be available for distribution shortly.

The sponsorship brochure that Susan developed last year for the Annual Symposium has been updated to incorporate the new sponsorship levels framework, and Susan and the Hartford host committee are using the brochure to recruit and secure conference sponsorships.

Now NALMS urgently needs your assistance finding sponsors. Please take some time and identify potential sponsors (companies, individuals, etc.) who may be interested in supporting NALMS and our mission. These may be friends and business associates of yours or members in your region, etc. YOU may retain contact control of one or more of your suggestions (e.g., if you feel you should be the one to approach that contact on behalf of NALMS) OR we will make the appeal – you do NOT have to be the one asking for support

of NALMS, but the personal connection that you bring is important in helping us develop fruitful sponsorships. We will discuss your wishes in this regard before pursuing any leads you provide.

We need the following information:

- Name of Prospective Business Sponsor
- Contact Person, Address and Phone Number
- Contact Email address and/or website
- NALMS Member submitting potential sponsor

PLEASE RETURN your information via email to Susan Urbas at [info@nalms.org](mailto:info@nalms.org) as soon as you can. The NALMS office will maintain and update a master list of potential sponsors to ensure coordinated follow-up on all leads. The updating of this list may eventually be an annual appeal, but for now – get down what you can and send it in. Let us continue to make NALMS all that it can be! [top](#)

## UPCOMING CONFERENCE & EVENTS

### What do you want to Learn at the 2009 NALMS Symposium?

The theme of the NALMS 2009 International Symposium in Hartford, October 24-31, 2009, is "Ensuring Our Lakes' Future." Anyone with ideas concerning interesting topics and speakers for inclusion in either the Symposium program or the lake and watershed steward sub-program is invited to send their ideas to Amy Smagula at [amy.smagula@des.nh.gov](mailto:amy.smagula@des.nh.gov) as soon as possible. Below is a list of session topics and workshop ideas. Please let Amy know which topics sound most interesting and feel free to add to this list if you think of other topics that others would benefit from.

#### Topics for Technical Presentations:

- Alternative and innovative septic systems for nearshore areas and beyond
- Alum treatments
- Analyses and case studies of enzymes and bacteria used to manage sediment, algae, and weeds
- Dams: safety, removal, hydropower, insurance
- Drawdowns: ecological impacts, benefits, drawbacks, in stream flow, and related topics
- Ecology and management of shallow lakes
- Ecology of kettle hole lakes
- Ecosystem health, watershed report cards
- Effective and creative lake and watershed education and outreach programs
- Effects of climate change on water quality/quantity, lakes, and watersheds
- Emerging and evolving methods in limnology
- Expecting and managing for water shortages
- Fisheries ecology and management
- Integrated management projects
- Internal loading in lakes
- Invasive species ecology, prevention, spread, mapping, and management
- Lakes and energy
- Lakes as indicators
- Lake Associations: formation, non-profit status, liability, insurance, activities
- Large-scale restoration projects
- Lessons learned from long-time lake managers
- Monitoring and fate of herbicides
- New England and Northeastern Lakes
- Newly recognized and emerging contaminants
- Nutrient criteria
- Paleolimnology
- Predicting and measuring the longevity of management actions
- Protecting our lakes: examples of local regulatory measures
- Public trust and lake management
- Smart growth and planning
- Stormwater management and impervious surfaces
- Submerged lands
- Tech Trade- GIS, remote sensing, and other tools

- The Critical Edge- shoreline management and protection
- Toxic algae: distribution, monitoring, prediction, and response
- Trends and innovations in volunteer monitoring
- User conflicts and designated uses
- Watershed management and Low Impact Development (LID)

Topics for Workshops on Tuesday or Saturday:

- Algal identification
- Alum treatments
- Internal loading
- Aquatic plant identification
- Aquatic plant management technologies
- GPS/GIS techniques and technologies
- Stormwater management

Saturday Lake Steward Workshops:

- Lake Associations 101: how to form, non-profit status, insurance, activities
- Sampling 101 for the Volunteer Monitor
- Ask the lake management expert [top](#)

## 2009 Ohio Stormwater Conference

Early Registration Now Available Until April 15, 2009 for Stormwater, Watershed, Water Quality, and Water Resource Professionals

The Mill Creek Watershed Council of Communities, Ohio Water Environment Association, Regional Storm Water Collaborative, and the Tinkers Creek Watershed Partners are presenting the 2009 Ohio Stormwater Conference. This conference will focus on stormwater and watershed management issues.

This year's conference features:

- Keynote Speaker: Tom Schueler, Chesapeake Stormwater Network
- Over 75 speakers on a variety of stormwater and watershed management issues
- CESSWI (Certified Erosion, Sediment, and Stormwater Inspector) Review Class and Exam (Starts on Wednesday, May 13th)
- BMP Tour in the Cincinnati Area (Wednesday, May 13th, 2009, 4:30-7:00pm)
- 50 Stormwater Exhibitors

Great Group Rates for Kings Island Amusement Park - Bring your family or have them join you after the conference ends on Friday night. [top](#)

## NALMS 18th Annual Southeastern Lakes Management Conference

Hosted by North Carolina Lake Management Society - Managing Extremes: Watersheds and Climate Disruption

NALMS and the North Carolina Lake Management Society invite you to attend the 18<sup>th</sup> Annual Southeastern Lakes Management Conference on May 5-8, 2009 in Winston-Salem, North Carolina. The conference will include issues concerning lakes, reservoirs, watersheds, and citizen involvement. Topics will include – Drought and Flood management, Water Conservation, Water Quality, Storm Water Management, and other extreme water topics. Join us in Winston-Salem, May 5-8, 2009 and examine extreme weather and water quality strategies, regional camaraderie, and more.

Southeastern lakes and reservoirs are a unique and vital resource. Factors such as geography and climate distinguish us from the nation as a whole. Changes in population and downturns in the economy are challenging all stakeholders to be creative in their solutions. Management and protection of southeastern lakes and reservoirs require sound national policy and coordinated action at the local level. NALMS and its Southeastern Chapters are well suited to play an important role in both of these areas.

The conference location, Winston-Salem, is centrally located between the Atlantic coast and the Great Smoky Mountains in North Carolina. Join us at the Hawthorne Inn and Conference

Center in downtown Winston-Salem to enjoy the regional attractions and to network with others in lake and watershed management.

Conference Objectives:

- To manage extreme weather conditions: water stewardship
- To explore ways to restore, enhance, and preserve our lakes and streams while supporting economic growth
- To exchange ideas on current lake, reservoir, and watershed issues in the Southeast
- To promote local actions on lake, river, and watershed issues
- To facilitate communication among all stakeholders

Preliminary Presentation Topics:

- Water Quantity and Quality Emerging Issues
- Shoreline and Stream Restoration
- Drought and Flood issues
- Managing User Conflicts
- Citizen Monitoring
- Stormwater Pond BMPs
- Watershed & Lake Associations
- Reservoir Operations
- Algae Identification Workshop
- Water Supply Issues
- Sediment and Erosion Control

For Information about the SELM 2005 Conference, contact: either Jef Morgan (336-707-1829) or Dave Buetow (704-336-3983). The webpage with current dates and information is [www.nclakemanagement.org\\_top](http://www.nclakemanagement.org_top)

## 22nd Annual National Conference - Enhancing the States' Lake Management Program

### *On the Edge: Enhancing Ecological Integrity of Shorelines*

April 14-17, 2009  
Holiday Inn Chicago Mart Plaza  
Chicago, Illinois

*cosponsored by*  
Chicago Botanic Garden  
U.S. Environmental Protection Agency  
• Headquarters Office of Wetlands,  
Oceans & Watersheds  
• Region 5 - Water Division  
North American Lake Management Society



Each year for over two decades, State lake program managers have gathered in Chicago to discuss successes, evaluate obstacles, and examine new approaches for improving the States' lake management programs. Our 2009 program explores creative ways to restore and protect our fragile lakeshore ecosystems. Special sessions will enable conference participants to be the first to hear hot-off-the-press preliminary results of the U.S. EPA's National Lakes Assessment.

Leaders from statewide lake associations will gain new insights from their sister associations across the country. And together, State agency staff and statewide lake association leaders will explore new opportunities for future cooperation. Federal and local managers are invited to join in the lively discussions, both during the sessions and at special programs offered during luncheons and evening social functions.

Our conference host is the Holiday Inn Chicago Mart Plaza, convenient to downtown Chicago's great restaurants and just steps from the city's magnificent cultural attractions.

Lake program staff from state, regional, and federal agencies—as well as the statewide "grassroots" lake organizations these programs serve—are highly encouraged to attend. For some, attending this annual conference has become a tradition. If you've not participated before, please consider joining us. We think you'll experience a truly unique opportunity to learn and share ideas on enhancing lake and watershed management programs!

For full Conference Program and Registration information, visit the conference Web site at <http://www.chicagolakes2009.org>; you may also follow this link to view and print the conference brochure: <http://www.chicagolakes2009.org/brochure.pdf>. To request a paper copy of the program brochure, or for any other questions, contact Bob Kirschner, the Conference Coordinator, at [bkirschn@chicagobotanic.org](mailto:bkirschn@chicagobotanic.org)

#### NOTE TO NALMS AFFILIATES:

Earlier this month, the presidents of statewide lake management organizations (which include many NALMS affiliates) received notice from Bob Kirschner that the \$285 conference registration fee would be waived for one representative from each organization. If you belong to a statewide lake management organization, check with them to make sure they're taking advantage of this special offer. [top](#)

## International Lake of the Woods Water Quality Forum

The 6th annual International Lake of the Woods Water Quality Forum will take place March 11 & 12, 2009 at Rainy River Community College in International Falls, Minnesota. The International Lake of the Woods Water Quality Forum provides an opportunity for those engaged in water quality research within the Lake of the Woods and Rainy River Basin to communicate findings, share ideas, and work toward a better understanding of water quality issues. This is a professional symposium intended for researchers and resource managers working and/or interested in research and management activities related to the Lake of the Woods and Rainy River Basin.

The 2009 Forum will include working group sessions, symposium presentations, a poster session, and an Emerging Issues discussion session.

#### Symposium Presentations:

This day and a half session includes presentations and a poster session. This is the ideal forum for communicating results and fostering collaborative research within the Lake of the Woods watershed. We have a full slate of 18 presentations covering aquatic invasive species, nutrient and algal assessment, nutrient modeling, paleo studies, hydromanagement effects on aquatic biota, climate change, updates on monitoring programs and much more.

#### Foundation Reception & The Kallemeyn Award:

Again this year, the Lake of the Woods Water Sustainability Foundation invites Forum participants to a casual reception after the day's technical session on March 11. The reception provides a good opportunity to continue the day's discussion, network and wind down a bit. At the reception, the Foundation and the Organizing Committee will present the 2009 Larry Kallemeyn Award, recognizing an individual's outstanding professional achievement in science or resource management in the Lake of the Woods and Rainy River Basin.

To get a pre-registration discount, please register and pay by February 28th, 2009. Also, there are few slots available for poster exhibits. Please contact Todd Seller [tsellers@lowwsf.com](mailto:tsellers@lowwsf.com) by February 28th if you wish to exhibit a poster. To get more information, a complete program description, and a registration form, go to [www.rainybasinwater.org/Pages/Forum\\_current.htm](http://www.rainybasinwater.org/Pages/Forum_current.htm). [top](#)

## International Forum on Integrated Water Management - Tools for Action

Cultural Centre of the Université de Sherbrooke (Sherbrooke, Quebec, Canada)  
June 1<sup>st</sup> to 3, 2009

5 conference rooms - more than 80 speakers from the Americas, Europe, Asia and Africa will present the most efficient tools to use for integrated water management:

- Characterization and diagnosis tools
- Planning and governance tools
- Information and joint action tools
- Water management tools in agricultural settings
- Intervention tools for the major water-related issues

Simultaneous translation in French or English will be available. Conference dinner will

include Riccardo Petrella at the Granada Theatre (Down-town Sherbrooke). Visit the official forum website for the program and on-line registration at [www.cogesaf.qc.ca/rv-eau\\_top](http://www.cogesaf.qc.ca/rv-eau_top)

## AFFILIATE TALK

To foster better communication amongst the diverse group of NALMS Affiliates, this section will feature a monthly topic or question which may be of interest to many affiliates. The goal is to help affiliate groups learn from each other, be more efficient with their time and resources, and better manage our lakes and reservoirs.

### Go to a Big Conference this Year:

I know that it can be a major challenge to find the time and resources to attend a conference that might be out of your state or province. If you have not done so, it is highly recommended that affiliate members attend the Chicago conference and/or the annual fall NALMS symposium. These two great conferences in Chicago, IL and Hartford, CT are located in the heart of lake management country. Canada, Great Lakes, Upper Midwest, and New England are defined by lakes. Over 230 million people live within 1,000 miles of these conferences. This should be the year that your Affiliate makes a major effort to get your members to one of these conferences. Especially check out the great offering for the Chicago conference. This particular conference in April is specifically designed to cater to statewide lake management programs. [top](#)

## LAKE NEWS & INFORMATION

### Benthic Nutrient Sources to Hypereutrophic Upper Klamath Lake, Oregon

In the Environmental Toxicology and Chemistry journal, USGS has published a new study focusing on the internal sources of nutrients in Upper Klamath Lake. The abstract view can be viewed at <http://www.setacjournals.org/perlserv/?request=get-abstract&doi=10.1897%2F08-207.1>. Below is the abstract.

James S. Kuwabara<sup>1</sup>, Brent R. Topping<sup>1</sup>, Dennis D. Lynch<sup>2</sup>, James L. Carter<sup>1</sup>, and Hedef I. Essaid

Three collecting trips were coordinated in April, May, and August 2006 to sample the water column and benthos of hypereutrophic Upper Klamath Lake (OR, USA) through the annual cyanophyte bloom of *Aphanizomenon flos-aquae*. A pore-water profiler was designed and fabricated to obtain the first high-resolution (centimeter-scale) estimates of the vertical concentration gradients of macro- and micronutrients for diffusive-flux determinations. A consistently positive benthic flux for soluble reactive phosphorus (SRP) was observed with solute release from the sediment, ranging between 0.4 and 6.1 mg/m<sup>2</sup>/d. The mass flux over an approximate 200-km<sup>2</sup> lake area was comparable in magnitude to riverine inputs. An additional concern related to fish toxicity was identified when dissolved ammonium also displayed consistently positive benthic fluxes of 4 to 134 mg/m<sup>2</sup>/d, again comparable to riverine inputs. Although phosphorus was a logical initial choice by water quality managers for the limiting nutrient when nitrogen-fixing cyanophytes dominate, initial trace-element results from the lake and major inflowing tributaries suggested that the role of iron limitation on primary productivity should be investigated. Dissolved iron became depleted in the lake water column during the course of the algal bloom, while dissolved ammonium and SRP increased. Elevated macroinvertebrate densities, at least of the order of 10<sup>4</sup> individuals/m<sup>2</sup>, suggested that the diffusive-flux estimates may be significantly enhanced by bioturbation. In addition, heat-flux modeling indicated that groundwater advection of nutrients could also significantly contribute to internal nutrient loading. Accurate environmental assessments of lentic systems and reasonable expectations for point-source management require quantitative consideration of internal solute sources. [top](#)

### National Water Quality Monitoring Council Briefing Sheet

NWQMC has developed a briefing sheet that summarizes selected accomplishments and priorities through 2010 for the Council and National Monitoring Network. Much of the content reflects ideas and resulting actions and decisions made at the NWQMC meeting last December in Reston, Virginia.

The briefing sheet is posted on the NWQMC website at

[http://acwi.gov/monitoring/pubs/fs/council\\_factsheet\\_accomplishments-02042009.pdf](http://acwi.gov/monitoring/pubs/fs/council_factsheet_accomplishments-02042009.pdf)

Comments on this briefing sheet are greatly appreciated for two reasons:

- 1) to help refine this document into a more formal "fact sheet" product for the Council, and
- 2) to continue to refine the direction/priorities/activities of the Council as laid out in December (ultimately feeding into an updated Council strategy). [top](#)

### Featured Lake – Earvin Magic Johnson Park Lake

This urban park lake was named and dedicated to Earvin "Magic" Johnson, former NBA basketball all-star with the Los Angeles Lakers. This park features two fishing lakes that have become a major attraction for residents the Los Angeles area. This 94-acre park includes two lakes, picnic area, soccer fields, and other play areas. Maybe more lakes should be dedicated to famous people. It is a great way to get attention!



The newest lake management decision for this all-star lake was to install two floating bioreactor islands that are designed to uptake nutrients and reduce algal blooms. AquaBio Environmental Technologies, Inc. installed these floating treatment wetlands on January 15, 2009. The objective is to have a continuous substrate for beneficial bacteria to grow on and plants to help uptake the nutrients as they enter the system via waterfowl and stormwater. AquaBio is making these islands non-passive, by forcing water through the matrix, the Islands will process the nutrients at a faster rate. [top](#)

### Websites of the Month – <http://earth.google.com>

It used to be that anything below sea level just showed up as blue ocean on Google Earth. But viewers are now able to see what is under the water, using an upgraded version of Google Earth.

In addition to the underwater imagery, a feature called Historical Imagery allows users to scroll back through decades of satellite images and watch developing sprawl, destruction from hurricanes, reforestation, or coastal erosion. A new function called Touring allows the user to create virtual tours on land or below the sea surface to depict a route for a hike or scuba excursion. The new version of Google Earth can be downloaded for free at <http://earth.google.com>. [top](#)

### Open Invitation to Add to the Next NALMS Notes

If you are having a conference, have a lake-related question, need advice, looking for similar lake problems/solutions, have an interesting story to share, or just want to be heard throughout NALMS, please send your material to Steve Lundt at [slundt@mwr.dst.co.us](mailto:slundt@mwr.dst.co.us).

All Nalms Notes material is due to Steve Lundt by the first Friday of each month to be considered for inclusion in that month's NALMS Notes. [top](#)

### Great Lakes Givers Club

Become a friend of NALMS by joining our Great Lakes Giver's Club. Annual membership in the GLG Club begins with a donation of \$5 or more, and is recognized quarterly in LakeLine Magazine, according to the following donation levels: Superior (\$1,000+); Huron (\$500-\$999); Michigan (\$250-\$499); Erie (\$100-\$249); Ontario (\$5-\$249). All donations to NALMS are tax-deductible, and upon receipt of the funds will be acknowledged by NALMS with an official letter to the donor documenting their contribution. While we await full implementation of the website, which will make online contributions possible, donations can be made by sending a check to NALMS at P.O. Box 5443, Madison, WI 53705, or by downloading the [Membership Form](#) from the website, completing the donation and credit card payment information portions, and faxing the form to NALMS at 608.233.3186. Thank you!

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Version: 8.0.237 / Virus Database: 270.11.1/1960 - Release Date: 02/19/09 18:45:00