

2010 NALMS e-Newsletter

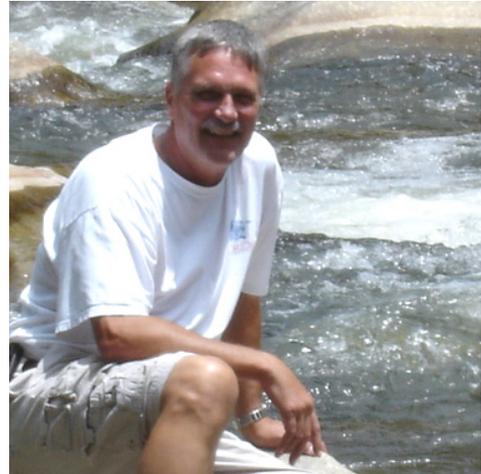


January

President's Message – Happy New Decade for NALMS Starting in 2010

Early in a new year, I generally find myself evaluating my actions from the last several years to determine what I did correctly and what I need to change this year in order to meet the goals I have set for my life. Now is also a good time for us to take a brief look at what NALMS has done correctly over the last few years and what we need to change this year in order to meet the Goals that NALMS has set for its membership.

Using my words and not the long formal mission statement, NALMS is a society of like-minded individuals who have the arching goal of protecting and managing aquatic resources with a focus on lakes and reservoirs. The North American Lake Management Society (NALMS) was founded in 1980 when a group of aquatic scientists realized that information was lacking on how to use science to actually manage lakes and reservoirs. Over the last 30 years, NALMS has developed many programs that benefit its membership and help the Society meet its mission statement but the following are three of NALMS most useful tools: 1) NALMS Annual Conference, 2) NALMS Professional Journal “Lake and Reservoir Management”, and 3) NALMS LakeLine Magazine. My upbringing tells me that every effort can be improved with more practice, and it is clear that NALMS has continued to move forward with these three programs.



Mark Hoyer, 2010 NALMS
President

The last several years, NALMS has been actively engaged in strategic planning to bring our organization to a new level and two years ago hired an Executive Director as a significant step toward a transition to a board of governance model. This position was in addition to the Membership Coordinator and Office Manager positions that NALMS currently supports. However, this past year NALMS terminated the Executive Director position due to under-performance of our income benchmarks which led to the inability for NALMS to financially sustain this position. Our annual conference, professional journal, and LakeLine magazine all bring money into the NALMS budget but to truly be able to afford an Executive Director and realize a board of governance model we will require a significant increase in membership and other related sources of steady income.

Over the last 30 years, the NALMS membership has fluctuated with highs a decade ago of >2,000 to our current membership of just under 1,000. Our members are as diverse as the lakes we try to protect and manage, including lakeside homeowners, anglers, citizen scientists, state and federal professions, consultants, technology suppliers, and many University professionals and students. This diversity is a greatest strength of NALMS because it provides collective wisdom to help with

lake management issues and problems. Thus, with a declining membership NALMS is losing its greatest strength as well as financial resources!

It is obvious to me that NALMS is not functioning well with respect to retaining members or expanding membership. As I mentioned at the membership meeting in Hartford, my goal this year is to continue to improve our core competencies, but we all need to work extra hard at retaining members and obtaining new members to strengthen the NALMS base. To meet this end, the Executive Committee has launched the following initiatives while we investigate and develop others:

- 1) Sending a welcome back letter to past members who have let their membership lapse asking them to revisit NALMS.
- 2) Bev Clark has issued a President Elect's challenge asking each member to recruit one new member (not a hard task) and baiting it with a wood carving that will be drawn from names of those who have actually produced a new member.
- 3) We have created a new NALMS Student Section (check out the student web page NALMSstudent.com) and are sending letters to students and faculty across the country asking them to get students involved with NALMS. This initiative is exciting and holds the future of NALMS in its hands.
- 4) We are creating a special electronic copy of LakeLine incorporating several of the best articles that have been published in LakeLine over time. The special issue will be called "This is NALMS", and we will be broadcasting it in as many places as possible to educate interested people about NALMS and try to attract them to become members which will strengthening our ranks and help to achieve our mission.

Please get involved with these and other NALMS programs so that we can work together to bring a strengthened NALMS into this new decade.

"They say it can't be done, but that doesn't always work"
Casey Stengel

Thanks,

Mark Hoyer
President, NALMS

WITHIN NALMS

Membership in Motion - Sarah Unz

I hope everyone had a relaxing holiday. We did, but now it is back to work!

The office is working on all the December 2009 membership renewals. Thank you to everyone who has renewed their membership. All members whose membership expired at the end of December received an email invoice (if you provide your email address to me) as well as a paper copy. Please contact me if you are unsure of your membership expiration date.



Past president G. Dennis Cooke has asked me to make an announcement regarding a collection of journals he has acquired. Dennis is offering all of his volumes of Limnology and Oceanography (Volume I through 2003) to an individual, company, or school. He also has many years of the Journal of Aquatic Plant Management that he is willing to give away. If you are interested, Dennis would like to receive a payment for shipping in advance, or you are welcome to drive to Kent, OH and pick them up. Please contact Dennis directly by email, phone, or letter:

G. Dennis Cooke
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1366 Mockingbird Dr
Kent, OH 44240-6216
dcooke@kent.edu
330-673-2189

A note to all members who receive Lake and Reservoir Management: if you have not already made your free journal selection, please do so now. Below are the details on how to do that:

As part of our recent agreement with Taylor & Francis to publish Lake and Reservoir Management, NALMS is able to offer its membership free electronic access to an additional Taylor & Francis journal. By clicking on the titles listed below, you will be able to preview the available free journals before making your selection. Once you have decided, email me, at slunz@nalms.org. In the email include your first and last name and the journal title of your choice.

You will receive your selection as a free e-access journal through 2010. Next year (2011) you will have the chance to choose a different journal, as well as each of the future years of NALMS' publishing agreement with Taylor & Francis. Please make your selection as quickly as possible to facilitate the process and to insure your full years access to the extra journal.

Taylor & Francis staff will contact you directly with instructions on accessing this additional journal.

Available Titles:

[Aquatic Ecosystem Health and Management](#)

[Coastal Management](#)

[Critical Reviews in Environmental Science and Technology](#)

[European Journal of Phycology](#)
[International Journal of Environmental Studies](#)
[International Journal of Water Resources Development](#)
[Journal of Environmental Policy and Planning](#)
[Journal of Land Use Science](#)
[Reviews in Fisheries Science](#)
[Society and Natural Resources](#)

Please feel free to contact the office with any questions or concerns, 608-233-2836.

Take care,

Sarah
Membership Services Coordinator

Update the NALMS Office With Any Changing Contact Information:

Please let Sarah in the NALMS Office (slunz@nalms.org) know if you have or are planning to change your contact information, so we can make sure you do not miss any of the NALMS monthly news letters, updates, or general NALMS announcements.

Another offer from Taylor & Francis

Taylor & Francis is pleased to offer a 15% discount off all T&F book publications to all individual NALMS members.

About Taylor & Francis:

Building on two centuries' experience, Taylor & Francis has grown rapidly over the last two decades to become a leading international academic publisher. The Taylor & Francis Group publishes more than 1,400 journals and around 2,800 new books each year, with a books backlist in excess of 40,000 specialist titles. For two centuries, Taylor & Francis has been fully committed to the publication of scholarly information of the highest quality, and today this remains the primary goal.

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Lakeline Request for Affiliates to Send in Updates

It is time to submit any Affiliate News items that you would like included in the spring 2010 issue of LakeLine. This will be a very special issue. The theme is "Reflections" and authors will write

about the special or mystical feelings that lakes give us, and we'll also learn about lessons learned from several authors following a lifetime in the lake management field.

Please compile and send your articles as soon as possible to Bill Jones (joneswi@indiana.edu). As always, you are welcome to send high quality images that will compliment your article. Affiliates are encouraged to send updates for Lakeline throughout the year.

UPCOMING CONFERENCES & EVENTS

Upcoming 2010 CLP/CLM Credit Opportunities

Here are a couple of classes that might interest you and provide you with earning credits for the certified lake professional or Manager certification program.

Pond Design, Management and Maintenance

<http://www.cpe.rutgers.edu/courses/current/ew0315ca.html>

(Coordinated by PALMS Past-President, Dr. Stephen Souza)

Lake Management - <http://www.cpe.rutgers.edu/courses/current/ew0301ca.html>

(Coordinated by PALMS Past-President, Dr. Stephen Souza)

If you have any questions please feel free to contact Adam Modezelewski, administrative Assistant, at 732-932-9271 ext.663.

2010 NALMS Southeastern Lakes Management Conference – Managing Extremes: Watersheds and Climate Disruptions

NCLMS SE2010 Conference planning committee is well underway with plans for the 19th Annual Southeastern Lakes Management Conference for another great conference. Join us at the Hawthorne Inn and Conference Center in downtown Winston-Salem, NC May 4-7, 2010 to enjoy the regional attractions and network with others in lake and watershed management. We will examine extreme weather and water quality strategies and other lake and watershed issues.



The conference is centrally located in North Carolina and accessible by I-40, I-85, and I-75 with excellent regional airport connections at the Piedmont Triad Regional Airport, serving the greater Greensboro, Winston-Salem, and High Point (Triad) area of North Carolina.

The program has been developed with broad support and interest from speakers throughout the SE and the US. The Program Committee is finalizing diverse and informative technical sessions that reflect the broad range of issues affecting lakes and watersheds in the Southeast. Topics will include – Drought and Flood management, Water Conservation, Water Quality, Storm Water Management, and other extreme water topics. Three workshops have been planned and include Man vs Stats – A Survival Guide for the Statistical Wilderness by Dr. Dennis Helsel; Taxonomy and Ecology of Algae by Dr. Linda Ehrlich and Dr. JoAnn Burkholder; and Life and Death for Lakes: Basic Properties and Processes by Dr. John Hains.

Registration fees will be the same as in 2005, with early full conference rate of \$175 and daily and student rates will also be available as in past SE conferences. Additional registration information and registration forms will be placed on the website by the end of January 2010. For exhibitor registration information, contact Cary Martin at cary.martin@aquacontrol.com.

Our thanks to our sponsors, including NC Department of Environment and Natural Resources, Duke Energy, Peroxygen Solutions, and Georgia Power.

More information about the conference can be found on the NCLMS website at www.nclakemanagement.org as it is developed – check back frequently for program updates and session topics.

If you have questions relevant to the program, please contact Conference Co-Chairs: Dave Buetow (704-336-3983), david.buetow@mecklenburgcountync.gov or Jef Morgan (336-707-1829) jmorgan10@triad.rr.com.

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.

Topic 1: How to get additional funds for your organization? Here is a clever way that is becoming more and more popular – grocery store bag refund donation. Check out the home page for the British Columbia affiliate and you will see on the bottom left a link to the local Whole Foods store. Instead of banking the \$0.05 per bag for bringing in your own bags, you have the option to donate it to the BCLSS.

Also, popular products such as potato chips are starting to donate a percentage of sales to non-profit organizations. Some companies will print hundreds of thousands of packaging that can be a great way to advertise or education the public about your organization. Read the back of your next bag of Doritos, who knows what you might learn about.

Topic 2: How to deal with beavers? Ballston Lake in Eastern, NY has a beaver problem and is receiving a lot of flack from animal rights groups about their plans to trap the animals. NYS does not allow live trapping and relocation of beavers so if they are trapped, they will be killed. They have been approached by the SPCA in CT about using flow-through piping (<http://www.beaversww.org/solutions.html>). Does anyone out there have any experience using these devices? The issue is not just flooding; it's also the destruction of (expensive) lakeshore plantings that have been promoted to prevent shoreline erosion. Any words of wisdom for the folks at Ballston Lake would be much appreciated. Please contact Nancy J. Mueller, Manager NYS Federation of Lake Associations, Inc. at (800)796-3652 fofa@nysfofa.org.

Affiliate Websites – Check out this one

A great way to see what other affiliates are doing is to check out their websites and see what they are up to and how fancy their web pages are.

To get you in the Winter Olympics mode, British Columbia affiliate will be highlighted. Go to www.bclss.org to see a great website.

LAKE NEWS & INFORMATION

EPA's Watershed Academy's Summarizes the National Lake Assessment

EPA provided a free webcast on January 5th that summarized the National Lake Assessment. A copy of the presentations can be found at [http://event.on24.com/event/18/42/00/rt/1/documents/slidepdf/nla_webcast_12-23-09_revised_\(nxpowerlite\).pdf](http://event.on24.com/event/18/42/00/rt/1/documents/slidepdf/nla_webcast_12-23-09_revised_(nxpowerlite).pdf).

The draft report, the National Lakes Assessment: A Collaborative Survey of the Nation's Lakes, is also available for public review and comment at: www.epa.gov/lakessurvey. The report shows that 56% of the nation's lakes support healthy biological communities. The report also identifies poor lakeshore habitat conditions and high levels of nutrients as widespread stressors impacting lake water quality in the United States. Another interesting finding is that 50% of the 1970's National Eutrophication Survey lakes that were resampled in 2007 showed a decrease in phosphorus levels.

Reclamation Develops Equipment Inspection and Cleaning Manual to Prevent Spread of Invasive Species

The Bureau of Reclamation has developed and released an Equipment Inspection and Cleaning Manual to help prevent the spread of invasive species through contaminated equipment use. This manual provides recommendations for inspection and cleaning of vehicles and equipment as a prevention tool to limit the spread of invasive species.

The manual is organized to present equipment inspection techniques, equipment cleaning methods, and finally the identification of invasive biology and habitats of some of the common invasive species that are of potentially high consequence to Reclamation. Examples include quagga and zebra mussels, purple loosestrife, giant salvinia, eurasian watermilfoil, and hydrilla. These and many other invasive species can be inadvertently introduced into new sites on contaminated equipment.

Not all types of equipment are described in the manual, but a process is presented to guide field personnel through general inspection and cleaning decisions for any equipment type. This manual was developed with the assistance of the U.S. Army Corps of Engineers. To obtain a copy of the manual, please visit www.usbr.gov/pps.

NASA Observes Lake Tahoe and other Lakes Warming Up

A recent NASA study showed Lake Tahoe's water is warming twice as quickly as regional air temperature, lending weight to predictions of warming lake temperatures made by UC Davis researchers in 2008.

The study, published in November, shows from 1992 to 2008, Tahoe's surface waters warmed a mean 0.23 of a degree Fahrenheit a year for a total increase of 3.7 degrees. Air temperatures recorded in Tahoe City increased 0.1 a degree annually during the same time.

Researchers from the Tahoe Environmental Research Center, UC Davis and NASA's Jet Propulsion Laboratory in Pasadena, Calif., used 18 years of temperature data from satellite sensors. They studied Tahoe, Clear Lake, Lake Almanor and Mono Lake in California and Pyramid and Walker Lake in Nevada.

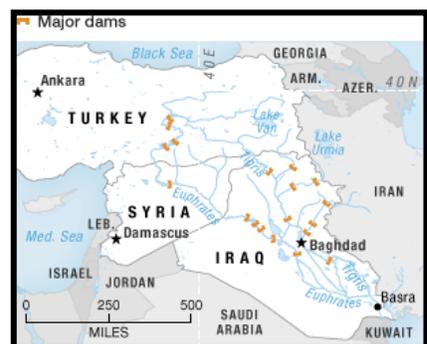
Scientists were able to compare the satellite readings with on-the-ground recordings of Lake Tahoe's temperatures and create a method to determine the real temperature of the lake. That method was used on the other bodies of water in the study.

The study combined 40 years of weather data in the Tahoe basin with mathematical models of climate change to create scenarios of future lake conditions. The team then took those scenarios and used a lake physics model to see how combinations of air temperatures, cloudiness, and wind speed would affect the mixing of water layers.

On average, the lake circulates water from bottom to top, with the deepest mixing in February. Deep-water mixing circulates oxygen through the lake, supports aquatic life and brings nutrients up from the bottom of the lake.

National Public Radio Talking about Mideast Water Crisis

All Things Considered on NPR carried a two-part series in early January called Mideast Water Crisis Brings Misery, Uncertainty. Here is the link for part 1 and 2: <http://www.npr.org/templates/story/story.php?storyId=122294630>. Much can be learned from other areas of the world that are dealing with severe droughts. The management of lakes and reservoirs for irrigation and drinking water in drought-stricken areas like the Middle East can quickly determine life or death for many animals and even people.



Lake Fertility: Effects of Nutrient Pulses

How does the timing of nutrient inputs, as opposed to the total nutrient input over a given period, affect the make-up of freshwater communities? U.S. scientists ran an experiment in which 24 wetland mesocosms containing topsoil and well water were first inoculated with phytoplankton, periphyton, macrophytes, zooplankton, benthic invertebrates, and associated microbes and then fertilized with different nutrient regimes. As the nutrient load was increased, the biomass of filamentous algae rose, but the biomass of macrophytes fell. However, these responses were strongest when nutrients were added at regular intervals, rather than all at one time. It seems possible that when supplies of dissolved nutrients are more continuous, algae in the water column

are better placed to exploit them than the roots of macrophytes below the sediment surface. Reference: Butzler, J. & Chase, J. 2008. The effects of variable nutrient additions on a pond mesocosm community. *Hydrobiologia*, 617, 65-73.

A New Lake Management Technique

Mystery photo: What are they putting in the lake and why are they doing it?



A new way to pick the winning lottery numbers in California?

A very slow “rubber duck” kind of race?

An artistic rendition of an oil spill in the ocean?

A way to keep geese off the water?

A way to shade out algae?

To see if they can make reservoirs look even more man-made?

Bobbing for Olives contest to celebrate National Olive Day?

And the answer is: plastic balls to shade the water from sunlight that is causing carcinogenic reactions with pollutants in the water.

In Los Angeles, the water quality division for the City of Los Angeles discovered that sunlight was forming carcinogens with the chemicals that were in the lake water. The City decided to cover the surface of several drinking water reservoirs with these plastic balls to shade out the light. Silver Lake, in the photo, is in an upscale neighborhood and lake-front home owners were, you guessed it, not happy.

Featured Lake – Ancient Lakes of the World – Aral Sea

Covering 18 of the world’s oldest lakes brings us to number 10, which use to be so big that is was classified as a sea.

The Aral Sea is considered one of less than 20 ancient lakes in the World estimated to be more than 5 million years old, and it is all but gone. The Aral Sea was the fourth largest lake in the world; it has now lost 90% of its source waters and 70% of its surface area. Salinity has increased fourfold also due to the 20-meter drop in elevation. The drying of the lake has resulted in completely eliminating commercial fishing, desertification, changes in local climate, and an increase in respiratory diseases and cancer caused by the salt and toxic dust that blow in the wind.



The Aral Sea has two major inflow rivers, the Amu Darya and the Syr Darya. Prior to diversion of its major tributaries for cotton irrigation, the lake had a surface area of about 62,000 square kilometers. The water volume was 970 cubic kilometers. In recent decades the amount of water from inflow rivers has drastically declined from 60 cubic km to 5 or 10 cubic km per year due to irrigation withdrawals. This drastic change would be equivalent to Lake Michigan shrinking to the size of the Great Salt Lake in only 20 years.



The sea, shared by Kazakhstan and Uzbekistan, has regressed by 70 percent from 1960 to 2004. To avoid complete extinction, both countries have built a dike that was opened in 2005 to increase flows into the Northern Aral Sea. The 13-kilometer dike, an \$86 million project of Kazakhstan's government and the World Bank, has already increased the sea's level by 50 percent from its lowest point. Officials are now preparing to launch the project's second phase and further expand the sea.

Despite these expensive efforts, many managers and experts in the region predict that it is just too late and not enough, the ancient lake will continue to shrivel up as the region gets thirstier.

Website of the Month – <http://blog.govdelivery.com/lakes-l>

Through the Wisconsin DNR website, they are offering a new two-way communication forum (lake blog) to talk about lake topics. This new blog replaces the previous Lakes-L listserv which will no longer be available.

Open Invitation to Add to the Next E-newsletter

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. All e-newsletter material is due to Steve Lundt by the first Friday of each month to be considered for inclusion in that month's e-newsletter.

Update Contact information:

Please let the NALMS Office (slunz@nalms.org) know if you have or are planning to change your contact information, so we can make sure you do not miss any of the NALMS monthly news letters, updates, or general NALMS announcements. NALMS appreciates this.