

# NALMS Notes

A Publication of the North American Lake Management Society

## May / June 2017

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## July is Lakes Appreciation Month!

Steve Lundt, Lakes Appreciation Month Program Chair | [slundt@mwr.dst.co.us](mailto:slundt@mwr.dst.co.us)

Lakes Appreciation Month starts in just a couple of weeks and we have two new things to help you celebrate this year. You can now post your event and lake images to NALMS' Facebook page using the hashtag #LakeAppreciation. Facebook and hashtags are the new ways for showing your appreciation for lakes and reservoirs. NALMS and other affiliates like the Colorado Lakes & Reservoirs Management Association have created Facebook pages where people can show off their favorite lake. It is amazing how many people like to share their photos. Lakes Appreciation Month is now on Facebook.

Also new this year, you can hand out t-shirts with a Lakes Appreciation Month design that kids can color themselves. Close to 1,000 Lakes Appreciation Month color-ons have been handed out to various lake groups that will be doing events in July. If you want to do a fun activity that kids will enjoy, consider handing out the NALMS color-ons. You can also design your own color-on. It takes about two weeks to get them so plan now. More information is on the NALMS site at [www.nalms.org/lakes-appreciation-month/](http://www.nalms.org/lakes-appreciation-month/).



While you're appreciating your lake, don't forget to submit your Secchi measurements to the Secchi Dip-In! Like Lakes Appreciation Month, the Secchi Dip-In runs for the whole month of July and we'd love your help to make it a success! A NALMS program, the Dip-In is an international effort in which volunteers produce a "snapshot" of the transparency of water in the United States and Canada. To learn more and join the celebration, visit the Dip-In website: [www.secchidipin.org](http://www.secchidipin.org). 💧



**Find the Secchi Dip-In Online**

Website • Facebook • Twitter



## NALMS Notes

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If you are having a conference, have a lake-related question, need advice, are 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 Terry McNabb at [tmcnabb@aquatechnex.com](mailto:tmcnabb@aquatechnex.com). All material is due by the 15th of February, April, June, August, October and December for consideration in the next issue of NALMS Notes.

*Items included in NALMS Notes do not represent or imply the endorsement of any specific commercial product or service by NALMS.*

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## News From Our Affiliates

### California Lake Management Society (CALMS)

[www.california-lakes.org](http://www.california-lakes.org)

CALMS has “dipped its toes” into social media. Give their Facebook page a look and a like: [www.facebook.com/CaliforniaLakes](http://www.facebook.com/CaliforniaLakes).

### Colorado Lakes and Reservoir Association (CLRMA)

[www.clrma.org](http://www.clrma.org)

**CLRMA at Coors Field** – CLRMA has 30 tickets again for fan appreciation night at Coors Field. The game is on Friday, September 29. The Rockies play the Los Angeles Dodgers. So far, the Rockies are off to their best start to the season ever. Dodgers are also doing well, so it might be an important game in September. Get your tickets now before they are all gone. Again, we will be in leftfield pavilion and will be escorted down to the outfield to watch the fireworks show after the game. Tickets are \$26 each. Contact [Steve Lundt](#) if you are interested.

### Illinois Lake Management Association (ILMA)

[www.ilma-lakes.org](http://www.ilma-lakes.org)

The Illinois Lake Management Association meeting was held recently, they have published the abstracts for the presentations made at their event. These can be viewed at [www.ilma-lakes.org/PDF/32ILMA-Conf-Program.pdf](http://www.ilma-lakes.org/PDF/32ILMA-Conf-Program.pdf).

### Michigan Chapter of NALMS (McNALMS)

[www.mcnalms.org](http://www.mcnalms.org)

The Michigan Chapter of NALMS has published a book entitled *Lake Management in Michigan with a Lake Improvement Board*. While portions of this book focus on the process in that state of establishing this partnership that is unique to Michigan, there are some excellent chapters on lake ecology and management issues that are of interest to any lake association members. It can be viewed at [www.mcnalms.org/images/ManualFinal\\_mcnalms.pdf](http://www.mcnalms.org/images/ManualFinal_mcnalms.pdf).

### Washington State Lake Protection Association (WALPA)

[www.walpa.org](http://www.walpa.org)

WALPA has published a new interactive lake association map. This map was developed by the Center for Spatial Information and Research at Central Washington University and can be accessed at [www.gis.cwu.edu/geog/walpa/](http://www.gis.cwu.edu/geog/walpa/) There is also direction on how to add your group if you don't see it there.

### Submit Your Affiliate News

Let us know what your NALMS affiliate is up to! State and provincial lake management groups do fun and interesting things. Let NALMS and others know what you are up to. You spend a large amount of volunteer time to put on great events, might as well share them. Send your news to us at [nalmsnotes@nalms.org](mailto:nalmsnotes@nalms.org).

## President's Message

Frank Wilhelm, President | [fwilhelm@nalms.org](mailto:fwilhelm@nalms.org)

Thank you! – for your enthusiastic response to our request to submit your vote on the merger of the Maine and Wisconsin parts of our Society to bring the move from Maine to Wisconsin one step closer. I am happy to report that we had 100% board participation, and overall a total of 308 responses. With a couple empty ballots and some abstentions that made for 304 yes votes. The meetings of merger were held on June 5, and the lawyers have provided us with their summaries. The next step is filing of the paperwork with the state secretaries in each state for an effective merger date of July 1. We do not expect any bumps in the road, so we should be able to close this chapter of what has occupied too many for too long at NALMS. A hearty thank you to tall those, probably most of all Philip Forsberg, for working on this tirelessly and making it happen (Never again, while I am a member of NALMS will I vote for reincorporation elsewhere after having experienced this as a hand-me down from previous actions by the board).



*One day's worth of proxy ballots.*



As you will notice elsewhere in *NALMS Notes*, our long-time (18 years) editor of *LakeLine*, Bill Jones, informed me in late spring that he would like to step down and fully move into retirement – he did retire from his university position several years ago and wishes to knock some more items off his bucket list that require time to be absent longer than currently allowed between issue deadlines. Although I tried to convince him to make it an even 20 years, Bill wisely and politely told me what I could do with that idea. Thus, NALMS is seeking a new editor to take over *LakeLine*. If, after reading through what it takes, you think you would like to throw your hat in the ring, please let us know. Bill is not leaving us cold turkey, and has kindly agreed to shepherd the recruit through a couple of issues before giving them the keys to fly solo. We thank him for this offer and look forward to a smooth transition. As well, I would like to extend a heartfelt thank you to Bill for leading *LakeLine* so competently for the last nearly two decades – he's the only editor I've known since I've become active in NALMS. How Bill came to be editor is also worth discussing with him over a drink you buy him at this year's conference in Denver. Thank you, Bill! - and good luck with that bucket list, we expect updates.

Turning to other NALMS activities and actions that affect the society, the change in administration in D.C. that occurred in November and policies being implemented are starting to trickle down. Not being used to watch the political landscape changes in D.C. so carefully has caught us a bit off guard – or perhaps more accurately, left us with a case of whiplash, given the steepness of proposed budget cuts to agencies and programs that relate to water resources, the rapidity of some of the changes, and just the general arc of the administration pendulum, and the incredulous manner in which it is swinging or being swung. To correct this, to lend our voice to issues and be able to alert NALMS members in a timely manner, the board has decided on the following actions. First, we will join the Consortium of Aquatic Science Societies (CASS), a re-incarnation of the Council of Aquatic Societies (CAS) of which NALMS was a founding member when it was first established, but which in the meantime ceased to exist. Second, we have combined the board members who were interested in working with the EPA to publicize the National Lakes Assessment (NLA) and the ad hoc government affairs committee into one entity to better serve us. Finally, we have been contacted by the National Harmful Algal Bloom Committee (NHC) to see if NALMS would be receptive to potentially engage our membership in a grass-roots effort to contact elected representatives to stress the importance of HABs funding and importance of continuing work that directly affects humans in relation to water sources. Stay tuned for further information as this all comes up to full speed.

Given the move in early May by Interior Secretary, Ryan Zinke, to freeze the work of more than 200 advisory boards, committees and subcommittees to review “the charter and charge of each committee” that required the groups’ meetings be postponed until September at the earliest, may have long-reaching effects on NALMS. First, it has

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## President's Message

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stopped all the work of the committees on which we typically participate, such as the Advisory Committee on Water Information (ACWI) and its subcommittees. Several other national committees have canceled regularly scheduled meetings as well. Most importantly, we typically host the National Water Quality Monitoring Conference operated jointly by the EPA and the USGS, but our conference planner, Jeff Schloss, does not think the regularly scheduled conference for May 2018 will go ahead. Given the financial benefits NALMS usually accrues from organizing this conference, this will create some budget issues, and will require close scrutiny.

Earlier in spring, the NALMS board approved a position statement on Source Water Protection, and at the recent June board meeting approved the white paper background to go with it. Thanks to the individuals, especially board member Brad Hufhines, for the work on it. This heralds a new format for the NALMS position statements, a succinct one-page summary, along with a more in-depth white paper that provides additional details. Other position statements are in the works and will be shared on the NALMS website as they are approved.

Speaking of the NALMS website, our membership and marketing director, Alyssa Schulte, continues to make improvements to the NALMS web pages, if you get a chance, check it out and provide any constructive feedback you have to her. All reasonable requests will be considered.

We will not publish another NALMS Notes before July rolls around, so please note that July is Lakes appreciation month, and many activities are planned. I know many of you will be out sampling and participating via some volunteer monitoring program to celebrate our lakes. Also, our Secchi Dip-In program intern, Vanessa Snyder, is ramping up the Dip-In program – although we accept data from readings all year-long, we are particularly interested in those taken in your lake during the month of July. See the Dip-In information elsewhere in this issue of NALMS Notes, and if you have time, please participate.

Please enjoy the summer and the opportunities afforded by our aquatic resources. Remember to be safe, rather wear that life jacket than be sorry. 💧

## Did you know ... that there are advertising opportunities in *LakeLine*?

- Distributed to a national and international audience of NALMS members and subscribed university libraries
- Discounted rates for Corporate members and consistent advertisers
- Reach audiences through hard-copy and digital format



**Promote your business and support NALMS ... at the same time!**

<https://www.nalms.org/lakeline-magazine/nalms-advertising/>

## NALMS Seeks Editor for *LakeLine*

The North American Lake Management Society (NALMS) seeks an editor for its *LakeLine* magazine which is a quarterly publication that informs and educates readers about current issues regarding lakes and lake management. Issues are theme-based with all of the articles addressing a specific topic. Most NALMS members primarily receive the magazine in print.

A publication of the North American Lake Management Society

# LAKELINE

The ideal candidate must possess:

1. A bachelor's degree or higher in the water resources field.
2. Working knowledge of NALMS and its history.
3. Excellent verbal and written communication skills.
4. Superior English writing and editing skills, and demonstrated experience.
5. Experience with M.S. Word and Excel, and with Adobe Photoshop or similar publishing software.
6. Ability to work independently, budget time, and to meet deadlines.
7. Ability to oversee/work with production editor to approve/guide layout and presentation.

Specific duties of the Editor include, but are not limited to the following:

1. Identify issue themes independently or after consultation with NALMS members, the NALMS Board, and/or Publications Committee.
2. Solicit 6–7 articles from potential authors for each issue.
3. Article submission dates are Jan. 1 (spring issue), April 1 (summer), July 1 (fall), and Oct 1 (winter) to allow publication and delivery of each issue via postal mail in March-April (spring issue), June-July (summer issue), September-October (fall issue), and December-January (winter issue),
4. Edit each article; send edits back to authors until each is in final form. Use the AP Style Manual and editing guidelines prepared by past *LakeLine* editors. This stage is the last opportunity for authors to modify their article.
5. Prepare a one-page (~700 words) "From the Editor" column that introduces the issue.
6. Compile all articles, figures, columns, and announcements. Text should be in Word, images and figures in .tif, .jpg, or PDF files. Submit complete electronic package to the Production Editor for layout.
7. Work closely with Production Editor to correct any errors; print and proof laid-out issue; return marked-up proof to Production Editor. This can be scanned and returned electronically.
8. Proof paper Galley Proof from the publisher. Return it to the Production Editor with any mark-ups via next-day express mail.
9. Once printed, send PDF files of each article (prepared by Production Editor) to corresponding authors along with any requested hardcopies.
10. Maintain and update author-specific materials such as "Instructions for *LakeLine* Authors,"
11. Work with the NALMS Membership and Marketing Director to identify, recruit/obtain, and retain advertisers.

Interested applicants should send a cover letter detailing their experience and how they meet each of the qualifications to: Frank Wilhelm, President, North American Lake Management Society, [fwilhelm@nalms.org](mailto:fwilhelm@nalms.org) by August 15, 2017.

## News From Region 1

Perry Thomas, Region 1 Director | [perry.thomas@vermont.gov](mailto:perry.thomas@vermont.gov)

'Tis the season for state lakes conferences in New England. Citizen science and climate change are common themes across these gatherings, as are watershed-level conservation and lake-friendly landscaping—known variously as “Lake Smart,” “Lake Wise,” and “Low Impact.” State and regional conferences are described on the recently revised *New England Chapter of NALMS website*. Highlights are captured below.

NALMS Region 1 includes members in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.



During his presentation on Walden Pond at the COLAP Workshop, Carl Nielsen showed an image of a talented dog practicing lake-friendly waste management.

The Massachusetts Congress of Lakes and Ponds kicked off the lakes conference season with a theme of “Climate Change and Lakes in Massachusetts” for their Annual Workshop held on April 7. Theme-related presentations included Certified Lake Manager (CLM) Carl Nielsen’s “Where’s Walden: A look at the evolving health of one of Massachusetts’ most treasured water resources” and CLM Ken Wagner’s “Climate change and lakes: What you really need to know.” Ken provided a preview of his presentation in an April 2 post for the new *NEC-NALMS blog*. Recent data suggest even a small increase in summer water temperatures in Massachusetts lakes can dramatically increase oxygen demand.

The Connecticut Lakes Conference, held on April 29, featured sessions on cyanobacteria monitoring, lake-friendly town zoning, stormwater best management practices, lake-wise landscaping, volunteer water quality monitoring, and aquatic invasive species management. We note that the March issue of *Lake and Reservoir Management* included a Connecticut-based research report titled “Seventeen years of grass carp: an examination of vegetation management and collateral impacts in Ball Pond, New Fairfield, Connecticut” (June-Wells *et al.* 2017. *Lake Reserv. Manage.* 33: 84–100).



Connecticut’s Ball Pond was the site of a 17-year study of vegetation management with grass carp. Image by Jane Didona.



One of New Hampshire’s VLAP volunteers, Gordon Page, using a Kemmerer bottle to collect a sample from Skatutakee Lake.

New Hampshire’s 2017 Volunteer Lake Assessment Program (VLAP) Workshop was held May 20. VLAP volunteers play a critical role in New Hampshire’s statewide assessment of lakes and their tributaries. The Annual New Hampshire Lakes Congress (June 1 and 2) encourages participants to take conservation efforts to a new level with the theme “Blue Lakes, Blue Mind – Go Deeper: Learn, Train, and Network with NH Lakes.”

Vermont’s 2017 Lake Seminar (June 2) features sessions on lake-friendly landscaping, volunteer cyanobacteria and aquatic invasive species (AIS) monitoring, and AIS spread prevention. This spring Vermont celebrates the 40th anniversary of their Spring Phosphorus monitoring program—an annual marathon that takes their inland lake monitoring team to lakes across Vermont, capturing data just after spring turnover. This spring the team sampled 74 lakes.



Leslie Matthews (left) and Kellie Merrell at Dutton Pond, Vermont during Spring P monitoring.

The 2017 New England Chapter of NALMS conference is in Rhode Island June 9 and 10, co-hosted by the University of Rhode Island’s Watershed Watch and Rhode Island’s Association for Lakes (Save the Lakes), with the theme of “Real World Watershed Monitoring and Management Techniques.” The conference promises to deliver inspiring sessions and workshops on lake watershed management and state-of-the-art monitoring technology.

Finally, the Maine Lakes Conference is coming up on June 24 with Cary Institute’s Kathleen Weathers discussing

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# International Rainy-Lake of the Wood Watershed Forum: Research and Policy Converge

Todd J. Sellers, Executive Director, Lake of the Woods Water Sustainability Foundation | [tsellers@lowwsf.com](mailto:tsellers@lowwsf.com)

Over 160 researchers, managers and policy makers attended the 14th annual International Rainy-Lake of the Woods Watershed Forum, March 8–9 in International Falls, Minnesota. The record attendance reflects the increasing focus on the Lake of the Woods basin by our governments, the International Joint Commission (IJC) and stakeholders.



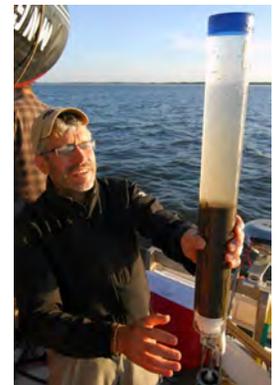
Lake of the Woods spans the borders of Minnesota, Ontario and Manitoba and is the 5th largest transboundary lake in North America. Like many other lakes, it is plagued by blue-green algal blooms and threats of aquatic invasive species. Lake of the Woods has an additional challenge. Research and management require extensive coordination and cooperation among the multiple jurisdictions and agencies of two countries.

The Forum epitomizes and implements the NALMS mission in the Lake of the Woods basin. It has been a catalyst to forging research and management partnerships across the international border among government and non-government agencies, citizens, and indigenous peoples that share the management of this massive lake.

The 2017 Forum sessions focused on: a review of water level control on Rainy and Namakan Lakes by the IJC; studies in Voyageurs National Park of algal toxins and metals, and an extended session on the nutrient and algae bloom problems of Lake of the Woods.

In the Lake of the Woods session, it was clear that a lot has been achieved scientifically over the past decade and momentum is growing binationally for management actions on nutrients and blue green algae. Highlights included:

- A progress report on Minnesota’s Lake of the Woods TMDL, on track to begin to establish phosphorus targets for the U.S. portion of the basin this fall.
- A first look at Environment Canada’s science plan and how it will integrate its efforts with Minnesota’s into an overall framework binational nutrient objectives and targets.
- Results of studies that are providing the keys to unlocking the Lake of the Woods story about the causes of algae blooms and how the lake is responding to internal loading from legacy pollution, modern day pollution controls and climate change. An international team collaborated on these studies, led by Dr. Mark Edlund of the St. Croix Watershed Research Station along with researchers from the Minnesota Pollution Control Agency, Ontario Ministry of Environment and Climate Change, University of Minnesota and University of Wisconsin.



Mark Edlund with sediment core from Lake of the Woods.

The binational tag team of long-time NALMS members Brian Kotak (Miette Environmental Consulting, Manitoba) and

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## News From Region 1

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“Ecological puzzles and a passion for lakes: cyanobacteria, sensors, and citizen scientists;” University of Maine’s Ivan Fernandez addressing “The fresh-water connection and the role of forests in climate change adaptation;” and Ecological Instincts’ Jennifer Jespersen describing how volunteer watershed surveys help inspire community groups to work at a watershed level toward lake conservation. ♦

# Membership in Motion

Alyssa Schulte, Director of Marketing and Membership | [aschulte@nalms.org](mailto:aschulte@nalms.org)

## Membership from a Newbie's Perspective

It is an honor to be penning my first *NALMS Notes* address as your Membership & Marketing Director! It was a pleasure to meet many of you in Banff (when I had been with NALMS for less than two months and, therefore, nodded and smiled my way through most of that first conference), and I'm looking forward to making more connections in Denver. I appreciate, and I know NALMS' leadership appreciates, your patience over the past year during the time of transition to myself as a new staff person, as well as the launch of the new WordPress website.



From a newbie's perspective, it's been very inspiring to see just how much NALMS means to so many people. From the Board members who give their time and energy to support a cause they believe in; to the loyal members who have been involved since the beginning; to the college students who provide new ideas and a fresh perspective; to our organizational members who support our conferences through donations, sponsorships, and symposium attendance. It is very humbling to be part of such an important and vital organization.

I have learned in my nine months with NALMS that, if we want to continue to grow and thrive, we must retain and strengthen our membership base. To that end, I encourage all of you to promote NALMS to interested co-workers and friends, to follow all of our happenings on [Facebook](#) and [Twitter](#), and perhaps most importantly, to keep your memberships active and current. It has never been more important to stand with organizations you believe in.

My current mission is to renew members who will lapse this summer, with a large number expiring on June 30. If this applies to you, please renew your membership soon! It's never been easier to [renew online](#), but you are also welcome, of course, to renew offline with our [fillable paper form](#). We have worked diligently in the past months to send reminders and make the renewal process more efficient. If you require any assistance or have any comments/questions/concerns, please contact me at [aschulte@nalms.org](mailto:aschulte@nalms.org) or 608-233-2836. 💧

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## International Rainy-Lake of the Wood Watershed Forum

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Jesse Anderson (Minnesota Pollution Control Agency) exhibited a poster highlighting NALMS programs. In addition, Brian Kotak delivered an impassioned pitch during the main conference session on the benefits of NALMS membership.

In addition to research, this year's Forum featured a significant policy component, including participation of Global Affairs Canada and US Department of State and addresses by Senator Al Franken and Canadian Member of Parliament Bob Nault — important indications of the momentum building for putting a binational plan in place to address the problems of nutrient loading and blue green algae blooms that plague Lake of the Woods. When research and policy begin to converge, we're on the right track!



US Senator Al Franken.



Bob Nault, Member of Parliament of Canada.

The Forum is organized by a volunteer committee of researchers and resource managers from Canada and the USA, led by the Lake of the Woods Water Sustainability Foundation. A big "thank you" to NALMS for its sponsorship of the Forum, and for the assistance of the many NALMS members who help organize it. 💧

## Conferences & Events

### **57th Annual Aquatic Plant Management Society Meeting**

**July 16–19** • Daytona Beach, Florida

[www.apms.org](http://www.apms.org)

### **American Fisheries Society 147th Annual Meeting**

**August 20–24** • Tampa, Florida

[fisheries.org](http://fisheries.org)

### **30th Annual Washington Lake Protection Association Conference**

**October 11–13** • Spokane, Washington

[www.walpa.org](http://www.walpa.org)

### **2017 Oregon Lakes Association Conference**

**October 20–21** • Florence, Oregon

[oregonlakes.org](http://oregonlakes.org)

### **NALMS Affiliate Organizations**

**Do You Have a Conference or Workshop You'd Like to See Listed in NALMS Notes?**

**Email the details to us at [NALMSNotes@nalms.org](mailto:NALMSNotes@nalms.org).**

## Lake Photo of the Month

"Turtle Trio" by Clint Calhoun.

Clint's photo won the People's Choice Award in the 2016 NALMS Photo Contest held at the Banff Symposium. Look for information on how you can enter the 2017 Photo Contest in this issue of *NALMS Notes*. The 2017 contest will be held at the Denver Symposium.



## SIL Working Group on Lake Restoration

The International Society of Limnology (SIL) working group on Lake Restoration was launched after the 33rd SIL Congress "Science for sustainable freshwater use" in Torino, Italy. All attendees at the special session on "Restoration of lakes and reservoirs through geo-engineering techniques: potentials and limitations" stressed the importance of launching a SIL working group to further facilitate co-operation, exchange of ideas and information, and to encourage an integrated approach to the science of lake restoration in a changing world.

Recognizing that each water body has unique features requires a specific suite of water quality management measures to ensure effective management. Mitigation measures should then start with a comprehensive ecosystem scale diagnosis – a system analysis – to determine the water- and nutrient balance of the waterbody, the drivers of movement of nutrients, and the biological make-up of the system and its function(s) and thus is an imperative prerequisite to the selection of the most appropriate measure(s). Consequently, activities of the working group will not be limited to in-lake measures, and include catchment management as well.

We encourage all those who would like to contribute or to be updated about the working group activities to send an email to the co-chairs Miquel Lurling ([miquel.lurling@wur.nl](mailto:miquel.lurling@wur.nl)) and Bryan Spears ([spear@ceh.ac.uk](mailto:spear@ceh.ac.uk)). For more lake restoration information, please visit the Facebook site at [www.facebook.com/LakeRestoration/](http://www.facebook.com/LakeRestoration/).

# A Call to Action

***Nominations for 2017 Election are being accepted at this time!***



NALMS is seeking candidates that will add diversity and breadth to the Board and its committees.

You could become a nominee for a position on the NALMS Board of Directors, to take a more active role in steering the direction of activities that relate to these precious resources. Experience or training in lake management is not required for a board position, and we encourage candidates with expertise in nonprofit management, leadership development, marketing, fundraising, legal issues and membership growth and development to consider running for a Board position.

Nominations are being accepted for the following Board positions:

- **President-Elect**
- **Treasurer**
- **Region 4 Director** – Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
- **Region 7 Director** – Iowa, Kansas, Missouri, Nebraska
- **Region 8 Director** – Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
- **Region 11 Director** – New Brunswick, Newfoundland and Labrador, Nova Scotia, Ontario, Prince Edward Island, Quebec
- **Student At-large Director** – Student members in North America and beyond

The **President-Elect** serves a three-year term including one year as President and one year as Immediate Past-President. The **Treasurer** serves a two-year term. **Regional Directors** serve three-year terms and act and vote in the interests of the Society as a whole, while bringing regional concerns to the attention of the Board. The **Student At-large Director** serves a one-year term and acts and votes in the interests of the Society as a whole, while bringing student concerns to the attention of the Board.

## ***Nomination Process***

Any member may submit nominations. Candidates must be nominated by at least two members to be eligible and self-nomination is encouraged if supported by two other NALMS members.

Nominations are due no later than **August 7, 2017** and must be made in writing and include an address, email address and phone number for the nominee.

The Nominations Committee will screen nominees to ensure active membership and conformity with criteria for office, including, but not limited to:

- Demonstrated interest and participation in the Society;
- Leadership ability and other qualifications listed in the position requirements; and
- Willingness to accept the duties of office as outlined in the position requirements, including commitment to attend semi-annual board meetings.

Submit nominations or questions about Board position requirements to Philip Forsberg via email: [forsberg@nalms.org](mailto:forsberg@nalms.org)



# North American Lake Management Society Achievement Awards Call for Nominations

"You may delay, but time will not." – Benjamin Franklin

Start preparing your North American Lake Management Society Award nominations! Do not delay to put into words the actions and outcomes of an individual, organization, program, or corporation having notable impact in lake and reservoir management.



**Award nominations are due August 15, 2017**

## NALMS Awards and Nomination Information

### Leadership and Service Awards

Nominations should detail how individuals or teams demonstrate leadership, service, and practice of lake and reservoir management. Selection criteria for Leadership and Service Awards include level of involvement, measurable impact, sustainability of action(s), and innovation in lake and reservoir management.

#### *Volunteer*

Nomination should address the significance of an individual or team's volunteer efforts devoted to lake and reservoir management. Professionals (*i.e.*, anyone paid to work on the project) are ineligible.

#### *Community Education and Outreach*

Nomination should address an individual or team's design, facilitation, or performance of exceptional education and outreach activity facilitating community understanding and appreciation for lake and reservoir management.

### Appreciation Awards

Nominations should address how individuals or teams contribute among a variety of lake and reservoir management areas. Selection criteria for Appreciation Awards include level of involvement, measurable impact, sustainability of action(s), and innovation in lake and reservoir management.

- **Secchi Disk Award** – Nomination should articulate how an individual member is considered to have contributed the most to the achievement of NALMS' goals. Award recipient must be a NALMS member.
- **Jim Flynn Award** – Nomination should recognize how an organizational member is considered to have contributed the most to NALMS' goal. Recipient must be a NALMS corporate member.
- **Friends of NALMS Award** – Nomination should detail major contributions of an individual or team to NALMS. Contributions extend beyond monetary donations.
- **Lake Management Success Stories** – Nomination should demonstrate an individual or team improvement in lake/reservoir condition or watershed management in a cost-effective manner.
- **Advancements in Lake Management Technologies** – Nomination should emphasize process of discovering, developing, or refining innovative methods, technologies, or processes targeting safer, cost-effective, and more effective lake/reservoir/watershed management. Individuals or teams completing research projects within the category that contribute to the science of lake management are eligible. Nominations should include supportive documentation (e.g., journal articles).

### Nomination Eligibility

Secchi Disk Award and Jim Flynn Award nominations must be NALMS members. Current NALMS board members and members of the NALMS Awards Committee are not eligible for nomination.

### Nominations

Any individual or entity may submit nominations. Nominations must include the following items:

1. Nominator contact information (name, title, mailing address, telephone number, and email)
2. Nominee contact information (name, title, organization/affiliation, mailing address, telephone number, and email)
3. NALMS Award for nomination
4. Brief and complete description of achievement(s) to be recognized and statement of how nominee's efforts meet specific award criteria.
5. Submit nomination by email to Dana Stephens, NALMS Award Liaison.
6. Please contact Dana with any questions or concerns.

**NALMS Award Liaison: Dana Stephens • 100 College Blvd. • Niceville, FL 32578 • Phone: 850-729-6469 • Email: [stephed@nwfsc.edu](mailto:stephed@nwfsc.edu)**

***Thank you for your nomination!***

## Lake News & Information

### Ontario Fighting Water Soldier

Source: Ontario's Invading Species Awareness Program

[www.invadingspecies.com/invaders/plants-aquatic/water-soldier/](http://www.invadingspecies.com/invaders/plants-aquatic/water-soldier/)

Ontario is fighting a new aquatic invasive species, Water Soldier. This perennial aquatic plant has all of the characteristics of a harmful introduced aquatic plant, it forms dense mats, crowds out native species, can alter water quality and has serrated leaf edges that can cut swimmers and individuals that handling water soldier plants. So far the only known wild populations in North America are in Ontario within the Trent River and Black River Basins. Let's keep it that way.

### 15 Best Lakes, Rivers and Other Watering Holes in New England

Source: Boston Magazine

[www.bostonmagazine.com/arts-entertainment/article/2017/06/04/best-lakes-rivers-waterfalls-new-england/](http://www.bostonmagazine.com/arts-entertainment/article/2017/06/04/best-lakes-rivers-waterfalls-new-england/)

Boston Magazine has published an article "The 15 Best Lakes, Rivers and other Watering Holes in New England." Let's see if you agree.

### Lakes in the Sahara

Source: Amusing Planet

[www.amusingplanet.com/2012/10/lakes-of-ounianga-sahara-desert.html](http://www.amusingplanet.com/2012/10/lakes-of-ounianga-sahara-desert.html)

Lakes in the Sahara Desert? Yup and this article talked about how they survive in an area with less than 2 mm of rainfall.

### Great Lakes Beaches Shrinking

Source: WOOD TV8 (Grand Rapids, Michigan)

[woodtv.com/blog/2017/06/05/less-beach-on-the-great-lakes/](http://woodtv.com/blog/2017/06/05/less-beach-on-the-great-lakes/)

According to a story published by WOOD TV in Michigan, beaches on the Great Lakes are shrinking, largely due to record high water.

### Salty Northeast Lakes

Source: Popular Science

[www.popsci.com/lakes-are-getting-saltier](http://www.popsci.com/lakes-are-getting-saltier)

Lakes in the Northeast are getting dangerously salty and it's our fault is the title of this story.

### World's Strangest Lakes

Source: CNN

[www.cnn.com/2014/07/09/travel/worlds-strangest-lakes/index.html](http://www.cnn.com/2014/07/09/travel/worlds-strangest-lakes/index.html)

From salty to strange. This CNN travel article talks about the world's strangest lakes. These range from ring lakes to boiling lakes. Worth a read.

### Murky Lakes in Minnesota

Source: Mankato Free Press

[www.mankatofreepress.com/news/murky-waters-area-lakes-marked-by-poor-water-quality/article\\_39e12384-4235-11e7-98b7-9b7b030780a9.html](http://www.mankatofreepress.com/news/murky-waters-area-lakes-marked-by-poor-water-quality/article_39e12384-4235-11e7-98b7-9b7b030780a9.html)

"Murky Waters" in Minnesota, reviews an analysis of 10 prominent lakes in South Central Minnesota looking at changes in trophic state.

### Summit Lake Closed Due to Toxic Algae

Source: The Olympian (Olympia, Washington)

[www.theolympian.com/news/local/article153276444.html](http://www.theolympian.com/news/local/article153276444.html)

The first of what will probably be many stories about toxic algae this year, Summit Lake in Washington shut down for Memorial Day weekend. 💧

## Consider a Donation to NALMS

You can donate at any time to the funds below by simply visiting the donation page on the NALMS website at <http://tinyurl.com/qzm36dw>.

### Eberhardt Memorial Student Fund

The Eberhardt Memorial Student Fund supports travel grants for student presenters to attend the Annual Symposium.

### G. Dennis Cooke Symposium Fund

The G. Dennis Cooke Symposium Fund supports NALMS' effort to facilitate the exchange of information on managing lakes and watersheds.

### Lake Givers Club

Contributions to the Lake Givers Club support NALMS' educational publications, programs and operations.

### Secchi Dip-In

Contributions support the operations of the Secchi Dip-In citizen science program. 💧

## NLA Training in Region 6

Julie Chambers, Past-President | [julie.chambers@owrb.ok.gov](mailto:julie.chambers@owrb.ok.gov)

The National Lakes Assessment (NLA) will be getting underway this summer. The lakes survey is just one component of the aquatic resource surveys conducted by the EPA and states. Each survey is completed on a 5-year rotation and this year marks the third iteration for the NLA. NLA is designed to provide statistically valid national and regional estimates of the condition of lakes using a probability-based sampling design to represent the condition of all lakes across the coterminous United States.

The NLA is designed to answer about condition of the Nations lakes such as:

- What is the current biological, chemical, physical and recreational condition of lakes?
- What is the extent of degradation among lakes?
- Is degradation widespread (e.g., national) or localized (e.g., regional)?
- Is the condition of lakes getting better, worse, or staying the same over time?
- Which environmental stressors are most associated with degraded biological condition in lakes?

This is great opportunity for states to partner and collaborate with EPA for knowledge exchange and capacity building as well as networking with others in the region.



This year's training was held at Broken Bow Lake in Southeastern Oklahoma, during the week of April 11–13, 2017. We were excited to have four of the five states representing Region 6 in attendance as well as NLA project lead, Amina Pollard. To top it all off, the weather was beautiful.

For this year's survey, many of the parameter types are the same as in previous years; however, there are a few new ones. These include the addition of sediment contaminants, dissolved gases and a fish eDNA pilot. As with other parameters, these new indicators will provide valuable information for states and other partners to utilize.

I always look forward to each cycle of the survey, it's an opportunity to learn something new, collect information we are not able to include in our individual programs and to go to lakes that have not been previously sampled.

For more information on the survey please visit: <https://www.epa.gov/national-aquatic-resource-surveys/nla>

Happy Sampling!

### You shop. Amazon gives...to NALMS

You shop on Amazon right? Well  now you can help NALMS at the same time with AmazonSmile.

When you shop at [smile.amazon.com](https://smile.amazon.com) you still get all the same low prices and wide selection you've come to expect from Amazon. Only now 0.5% of your purchase price can go to NALMS. The average online order these days hovers around \$70. So on average about 35¢ per order could come to NALMS to enhance our programs and further our mission. That may not sound like much but every penny can make a difference. And when you add those pennies up, say, over 1,000 NALMS supporters making two purchases a year, the total comes to \$700. Not too shabby. Now imagine those 1,000 supporters got a couple of friends to join in as well. Now we're rolling at \$2,100. You can help us get going by getting set-up today – here's how:

1. Go to [smile.amazon.com](https://smile.amazon.com).
2. Log into your account or create a new one.
3. Look up and select "North American Lake Management Society" when prompted.
4. Shop until you drop.
5. And don't forget to tell your friends and family!



## Registration Opening Soon!

**Please note that our schedule this year is shifted one day from our typical symposium schedule. Technical sessions start on Tuesday, not on Wednesday!**

### Agenda at a Glance

#### **Sunday, November 5**

NALMS Board of Directors Meeting

#### **Monday, November 6**

Workshops  
Field Trips

NALMS New Member Reception  
Brewery Tours

#### **Tuesday, November 7**

Opening Plenary Session  
Technical and Poster Sessions  
Exhibits Open  
NALMS Membership Meeting  
Exhibitors' Reception

#### **Wednesday, November 8**

Clean Lakes Classic  
Technical and Poster Sessions  
Exhibits Open  
Awards Reception and Banquet

#### **Thursday, November 9**

Technical Sessions  
Exhibits Open

#### **Friday, November 10**

Field Trips

### Thank You to Our Sponsors!

#### **Supporting Sponsors**

Colorado Department of Public Health & Environment  
Colorado Lake & Reservoir Management Association  
GEI Consulting Engineers and Scientists

#### **Sustaining Sponsors**

Aquarius Systems  
Cherry Creek Basin Water Quality Authority

#### **Contributing Sponsors**

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Denver Water  
Metro Wastewater Reclamation District  
NorthEast Aquatic Research

#### **Sponsors**

Abraxis, Inc.  
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Water Resource Services

#### **In-Kind Sponsors**

Vic Lucero

#### **Contact us to become a sponsor!**

[sponsorship@nalms.org](mailto:sponsorship@nalms.org)  
608-233-2836 ext. 701

**Visit the Symposium Website @ [www.nalms.org/nalms2017](http://www.nalms.org/nalms2017)**

## Join Us in Colorado!

Make your plans now for your symposium trip to Colorado. Registration will open soon and will include a great list of workshops, field trips, and special events. New for 2017 will be workshops on nature photography, aeration and oxygenation and field trips to local sonde manufacturing facilities, the USGS Ice Core Lab, NOAA, and local reservoir field trips. We even have a shuttle back to the airport that will include lunch at a popular reservoir. Visit the symposium website for details.

### Confirmed Workshops

All workshops will be held on Monday, November 6.



Photo by John Fielder

- Alum for Phosphorus Control in Lakes and Ponds
- Collection, Identification, Ecology and Control of Freshwater Algae
- Internal Phosphorus Loading
- John Fielder Photography Workshop
- Real Time Test Systems for Cyanotoxins
- The Role of Aeration/Oxygenation in Lake and Reservoir Management

### Confirmed Field Trips

#### Monday, November 6

- National Renewable Energy Laboratory (NREL) Tour
- USGS Ice Core Lab Tour
- Tools for Water Quality Monitoring or Sondes and Suds
- Bear Creek Reservoir Tour
- National Oceanic and Atmospheric Administration Tour

#### Friday, November 10

- Maintaining Water Quality in a High-Altitude Reservoir
- National Oceanic and Atmospheric Administration Tour
- Barr Lake Tour and BBQ

### NALMS Fun

#### Brewery Tours

Monday, November 6

Did you know that beer is kind of a big deal in Colorado? Well, experience it yourself with brewery tours organized by NALMS. We will be taking 100 people to a selection of three breweries in your choice of Denver or Boulder (selected during registration). Price includes transportation from the Westin to the breweries and one beer at each brewery. Additional beer can be purchased at the breweries and food and alcohol consumption is allowed on the bus. Sign up now! Availability is limited!



#### Euchre Tournament

Have you always wondered what the big deal was with the euchre card game in the hospitality rooms? Sign up for the first ever NALMS Euchre Tournament during the Symposium when you register for the Symposium. Beginners to experts are all welcome to play. This is a great time to learn the game, socialize with the experts (limnologists as well as euchre players), and enjoy the hospitality room. To understand how the tournament will work, check out [www.euchrefun.com/2013/04/run-euchre-tournament.html](http://www.euchrefun.com/2013/04/run-euchre-tournament.html).

#### Clean Lakes Classic 5K Run / Walk

Wednesday, November 8

The annual Clean Lakes Classic starts at mid-day from the Westin Westminster. The 5-kilometer run / walk takes participants on a route through Westminster City Park, located across the street from the Westin Westminster. You need not be a runner to participate! All pre-registered participants receive a t-shirt as part of the sign-up fee.



The worlds' largest natural hot springs pool covers 2 city blocks in Glenwood Springs, Colorado.

## News From Our Student Director

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Sarah Burnet, Student Director | [student@nalms.org](mailto:student@nalms.org)

With registration for the 37th International Symposium opening soon, I wanted to take the time to alert students (and their advisors) to the opportunities available to attend the symposium.

*Student Travel Grants* will again be available to help defray the costs of attending the annual symposium. The amount of each individual travel grant will vary depending on the availability of funds and number of eligible applicants. However, the grant may cover the costs of the symposium registration fees, travel, and/or overnight accommodations. Application materials are generally due in mid-July so please keep an eye out once the due date is set. Students giving oral or poster presentations are automatically considered for the **Jody Connor Student Award** (1 each - oral, poster).



The latest project from Student Programs is the *NALMS Student Video Series* which aims to create an online repository of easily accessible information about the basics of lake management and the use and construction of limnological equipment. Awards for the top video in each competition include a \$500 USD travel award to the NALMS conference including recognition at the conference and promotion of the winning video on the NALMS website and YouTube channel. Two runner ups will be awarded a one-year NALMS student membership.

Our latest RFV focuses on the topic of Macrophytes with videos due July 1, so please send your submissions to the Student Programs *Dropbox!* Aquatic Invasive Species will be the next topic (videos due October 15) so consider capturing footage between now and then.

### **Congrats to our past winners of the Student Video Series!**

Leah Gorman for the "*Measuring Secchi Depth*" video and Alexa Tumbarello and Sonja Wixom for the "*Lake Mixing & Stratification*" video. The winning student videos are hosted on the *NALMS YouTube channel* and *website*. Please feel free to like and share them!

Without the donations of items to the **Silent Auction** held at the annual symposium, or directly to the **Eberhardt Memorial fund**, we would not be able to fund these opportunities for students. Please consider donating an item to this year's silent auction, or directly to the *Eberhardt Memorial fund to support the Student Programs*.

If you have any questions about Student Programs or would like to help in any way, please feel free to email me at [student@nalms.org](mailto:student@nalms.org). 💧

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## Property Owners Association of Deep Creek Lake (Maryland) Donates Aquatic Invasive Species (AIS) Road Signs

In an effort to help further the Aquatic Invasive Species (AIS) educational effort at Deep Creek Lake, the Property Owners Association of Deep Creek Lake spearheaded an effort to design and install AIS related road signs on roads leading to Deep Creek Lake. The POA consulted with Maryland Department of Natural Resources (DNR) regarding the location and design of the signs, and coordinated with County officials and other local agencies to identify suitable roadside locations. In all, the POA donated \$3800 for these signs and signposts while Sky Valley Association (a local Home Owners Association) donated the equipment and labor to install the signs on various state and local roads. A total of eight signs were placed on inbound roadways. Signs were also given to DNR to be installed at the launch ramp area of the State Park by DNR employees. These signs are meant to serve as a reminder to people bringing boats/trailers from other bodies of water to be certain to properly CLEAN, DRAIN and DRY vessels prior to launching into Deep Creek Lake in order to prevent introduction of AIS into our lake!



## Reservoir Fisheries Habitat Partnership

The focus of the Reservoir Fisheries Habitat Partnership's (RFHP) activities over the past three years has been partner expansion. [NALMS is a member of the RFHP Executive Committee] RFHP currently has 58 angling /conservation group members of the Friends of Reservoirs (FOR) in 22 states (Figure 1) and three corporate sponsors (Bass Pro Shops, Mossback, Pond King). Texas has the most FOR Chapters/Organizations (19) and this has resulted in more RFHP-funded projects in Texas than any other state (10).

RFHP and the Friends of Reservoirs (FOR) Foundation held its first workshop for members at its Annual Meeting at the Texas Freshwater Fisheries Center in Athens Texas in November 2014. More than 75 lay partners and professionals attended the workshop which focused on Best Management Practices for reservoir habitat restoration and highlighted member projects. Building on the success of that meeting, RFHP repeated the format for the 2015 meeting in Ogden, Utah. Professionals and lay partners made presentations on projects and challenges facing reservoir habitat restoration in the west. Dr. Andrew Norris from Australia spoke on reservoir habitat challenges in Australia and on his fact-finding tour of habitat projects in the US. His report to the Australian government may be one of the most comprehensive compilations of reservoir habitat work in the US. This report is available upon request from the RFHP Coordinator. The 2016 meeting was held 8–9 November at Big Cedar Lodge on Table Rock Lake, Missouri. RFHP provided free lodging and several meals for Fish Chiefs or their representatives to help defray travel costs and provide information on the agency benefits to becoming active in RFHP projects/programs. Given that the vast majority of reservoir habitat restoration work is currently being conducted by state fish and wildlife agencies, RFHP considers these agencies as our primary partners. We had an excellent turn out with more than 75 agency and lay groups attending. A full day and a half of technical presentations were held on RFHP activities and projects. The 2017 Annual Meeting will be held 9–10 October in State College, Pennsylvania.

RFHP has completed a reservoir habitat restoration BMP manual. A .pdf version is available and limited number of hard copies have distributed to partners and copies sent to select universities with active fish management curricula. We plan to have a searchable on-line version of the manual posted to our new website ([www.waterhabitatlife.org](http://www.waterhabitatlife.org)) later in 2017.

RFHP received \$75,000 from NFHP which was used to update the reservoir habitat metric database. The database will be distributed via a USGS Technical Publication and has been made available to NFHP's Science and Data Committee to be incorporated into the National Assessment. The state-by-state metric database will also be housed on the redesigned RFHP website. State-by-state and individual reservoir impairments as determined by the RFHP Impairment Survey will be posted on the website in the near future.

RFHP has used over \$450,000 of National Fish Habitat Partnership funds and other grants to fund 42 restoration projects in 18 states (Figure 2). These funds have been leveraged with an additional \$2.9 million from project partners. Most projects have focused on adding physical structure (brush, artificial, and native vegetation) and shoreline stabilization. Given that the vast majority of reservoir habitat restoration work is currently being conducted by state fish and wildlife agencies, RFHP considers these agencies as our primary partners. One of our goals is to bring reservoir user groups together with the state reservoir management agency to partner on restoration projects. Our vision is to move from the small-scale

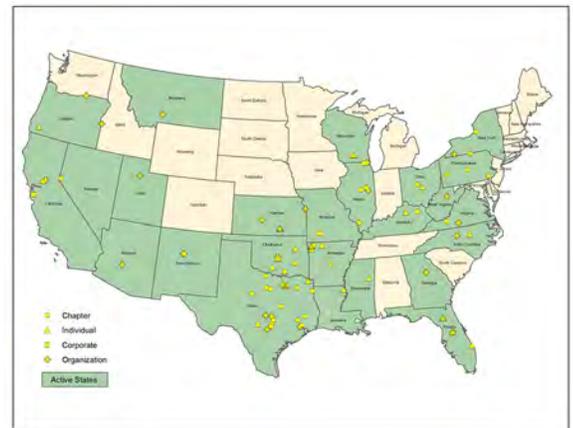


Figure 1. Location of Friends of Reservoirs members.



Figure 2. Reservoir Fisheries Habitat Partnership project locations, 2010-2016.

in-reservoir projects to a more holistic (watershed-based) approach to addressing reservoir habitat issues. To do so, we need to expand outreach efforts and educate reservoir users on the economic and ecological value of these systems and the positive impact that a healthy reservoir has on the local economy. The showcase project with these goals in mind is the Lake Wichita project. This project is a partnership among RFHP, Texas Parks and Wildlife and the Wichita Falls community to completely renovate a 100-year old reservoir. See [www.supportlakewichita.com](http://www.supportlakewichita.com) for a complete project description and vision.

RFHP has initiated discussions with Bass Pro Shops, Arkansas Game and Fish Commission, Missouri Department of Conservation, US Army Corps of Engineers, and numerous municipalities and watershed groups regarding a long-term (10-year) effort to restore habitat on the White River chain of reservoirs. Targeted impairments include sedimentation, excessive nutrients and lack of structure. The first project planning meeting is scheduled for early March with a targeted proposal and budget slated for October 2017.

The Bassmaster Classic was held in March on Lake Conroe, Texas. Lake Conroe was the first RFHP restoration project and the Seven Coves Bass Club (leader of the project) was the first Friends of Reservoirs member. The Conroe project is ongoing and seeks to reestablish native aquatic vegetation (water willow) in a highly developed reservoir. Conroe was selected as one of NFHP's Ten Waters to Watch in 2013. The Bassmaster Classic is slated to provide \$25 million to the local economy. This is a prime example of the economic value of investing in aquatic habitat restoration. The RFHP Coordinator participated in a panel of experts discussing water quality issues and the effect on fisheries. The media luncheon was sponsored by the Theodore Roosevelt Conservation Partnership. Go to: [www.bassmaster.com/news/multiple-conservation-issues-discussed-during-media-luncheon](http://www.bassmaster.com/news/multiple-conservation-issues-discussed-during-media-luncheon) for information on those discussions.

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## Steve Effler, Founder of Upstate Freshwater Institute, Dies

Dr. Steven Effler, founder of Upstate Freshwater Institute, lost his battle with brain cancer on April 15. A frequent contributor to *Lake and Reservoir Management*, Steve's research on New York's Onondaga Lake led to restoration efforts of the lake once considered the most polluted lake in the United States. A remembrance may be found on [Syracuse.com](http://Syracuse.com).



## It's a snap!

### YOU could be the winner of the 2017 NALMS Annual Photo Contest.

Two winning images will be selected, a Member's Choice winner selected by Symposium attendees and an Editors' Choice winner selected by the editor and production editor for the entry that will make the best *LakeLine* cover. We have secured sponsorship for the Photo Contest so a \$250 gift card will be awarded to each winner.

Your favorite lake or reservoir photo could grace a cover of *LakeLine*!

Entries will be judged during the 2017 NALMS Symposium . . . in Denver, Colorado!

Only electronic submissions will be accepted. You must be a NALMS member to submit an entry.

Photos should be of sufficient resolution to print from (approximately 300 dpi at 8.5" x 11").

Maximum of one submission per person.

Entries must be received by October 15, 2017.

Send your entry to:  
Bill Jones, Editor, *LakeLine*  
[joneswi@indiana.edu](mailto:joneswi@indiana.edu)

### Do you have an item you'd like to see in NALMS Notes?

Send it to us by the 15th of February, April, June, August, October and December for consideration in the next issue of *NALMS Notes*.

### Find NALMS Online

Website • Facebook • Twitter  
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# Secchi Dip-In 2017

Celebrate Lakes Appreciation Month with us!

July 1st - July 31st



Photos (left to right; all taken June/July of 2016): (1) Oliva Reda, IU SPEA (Lemon Lake, Bloomington, IN; Photographer: Melissa Laney, IU SPEA); (2) Yellowwood Lake (Bloomington, IN; Photographer: Vanessa M. Snyder, IU SPEA); (3) Unknown & Holden Sparacino (Photographer: Holden Sparacino).

## Relax by the Water & Take a Dip!

Secchi Dip-In 2017 is approaching quickly and we'd love your help to make it a success! Planning to enjoy time by the lake this summer? A Secchi disk reading takes just a few minutes, is a great way to ensure those waters stay a healthy place to have fun, and is simple enough that everyone can participate.

Started in the United States, the Secchi Dip-In is now an international effort in which volunteers produce a "snapshot" of water transparency around the world. Secchi disk readings can be submitted online at [www.secchidipin.org](http://www.secchidipin.org) or via the Lake Observer mobile app (<https://www.lakeobserver.org>).

Twitter: @SecchiDipIn  
E-mail: secchidipin@nalms.org  
Website: www.SecchiDipIn.org

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Sponsored by the North American Lake Management Society (NALMS).

# Lakes Appreciation Month 2017

Enjoy and help your favorite lake in July!

July 1st - July 31st



## From fishing to your daily coffee,

lakes and reservoirs play a vital role in our daily lives. For over 20 years, July has been officially Lakes Appreciation Month. It is a time when many folks are vacationing and enjoying lakes, and NALMS wants people to give something back. Just think, what would your life be like without lakes?

July is a great time to set aside some time to celebrate and help your favorite waterbody. Here are some ideas for a lake event in July: organize a shoreline clean up, hand out free fishing poles, arrange for free boat rides and canoe lessons, hand out free t-shirts with the new Lakes Appreciation Month design, find volunteers to participate in the Secchi Dip-In, and free food is always a hit. There are many other ideas that can be found at [www.nalms.org](http://www.nalms.org) or [www.epa.gov/lakes](http://www.epa.gov/lakes).



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