

Michigan Chapter North American Lake Management Society

The purpose of McNALMS is to promote understanding and comprehensive management of Michigan's inland lake ecosystems

P. O. Box 4812, East Lansing, MI 48826

Visit our website at: WWW.MCNALMS.ORG

Presidential Ponderings

by Lois Wolfson, McNALMS President

I'd like to start off by thanking Mike Solomon, Wexford County Drain Commissioner for his contribution as President of McNALMS for 2021. I took over beginning in January 2022, and Mike will serve as Past-President. Melissa DeSimone, Executive Director for the Michigan Lakes and Streams Association (MLSA), won the vote for President-Elect, and Roger Carey, Retired, won the vote for Secretary. Our other officer is Jason Broekstra with PLM Lake and Management Corp, as Treasurer. The Board of Directors are appointed positions and include Ralph Bednarz, Retired; Joe Nohner, Michigan Department of Natural Resources; and Scott Brown, Michigan Waterfront Alliance.

It is my pleasure to welcome our readers to the first McNALMS newsletter of 2022. McNALMS just closed its call for applications for the **Lake Research Student Grants** program that it and MLSA offer to students throughout Michigan or students working on Michigan lakes, and we're looking forward to reading them. The program awards up to \$4000 to one or more student recipients based on their proposed work and how it relates to inland lake ecosystems, lake management or expands citizen involvement in lake management. We also look for proposals that add to our understanding of the aforementioned topics. All proposals must have applicability to Michigan lakes. Proposals will be selected later this spring.

McNALMS is excited about its involvement in the **2022 Michigan Inland Lakes Convention: Protecting Lakes Today for Tomorrow**. McNALMS is a founding member of the Michigan Inland Lakes Partnership that organizes the event, and several members of the Board are helping develop and market the program. It's planned for September 14-16 and will be held virtually. [Abstracts](#) are now being accepted. (continued on pg. 2)



The [Midwest Glacial Lakes Partnership \(MGLP\)](#) brings together resource agencies, non-profit organizations, and other stakeholders to protect, rehabilitate, and enhance sustainable fish habitats in naturally formed lakes of the Midwest. We foster collaborations on fish habitat science, education and outreach, and conservation. For more information, stop by our [website](#), follow us on [Twitter](#), or reach out to our coordinator, [Joe Nohner](#). If you aren't already on our newsletter e-mail list, you can [SIGN UP](#).



Michigan Chapter, North American Lake Management Society is a proud affiliate of the North American Lake Management Society, an organization that is dedicated to forging partnerships among citizens, scientists, and professionals in order to foster the management and protection of lakes and reservoirs...for today and tomorrow. To learn more about each organization, visit their outstanding websites located at :

www.nalms.org/

www.mcnalms.org/

facebook

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Presidential Ponderings...

Continued from pg. 1

McNALMS is also exploring options for celebrating the 50th anniversary of the **Clean Water Act**, also known as the **Federal Water Pollution Control Act Amendments of 1972**. This act led the way for cleaning up the nation's waterways through stricter pollution standards, regulating discharges of pollutants from point sources, and regulating standards for surface waters. The goal was to make all waterways in the United States fishable and swimmable. Substantial improvements were made, but some of the most significant pollution sources come from nonpoint sources which continue to be major stressors on our waters, including lakes. So, while we can celebrate what has been achieved, there's much more we can do to protect our lakes. That's one of the goals for McNALMS, and we hope we can continue to provide educational resources that help in understanding lakes and issues that they face.



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY



Michigan Invasive Species Program 2021 Annual Report



Michigan Invasive Species Program 2021 Annual Report



Michigan's Invasive Species Program is a joint effort of the Michigan departments of **Agriculture and Rural Development**; **Natural Resources**; and **Environment, Great Lakes, and Energy**. The **Michigan Invasive Species 2021 Annual Report** highlights the program's goals and accomplishments regarding invasive species prevention, management and outreach; the status of prohibited and restricted species in Michigan; and recommendations for furthering **Michigan's Invasive Species Program**. This report is submitted by the DNR in compliance with **Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, MCL 324.41323** and by EGLE in compliance with NREPA 324.3104(3). This report and other information pertaining to invasive species in Michigan is available at Michigan.gov/Invasives.

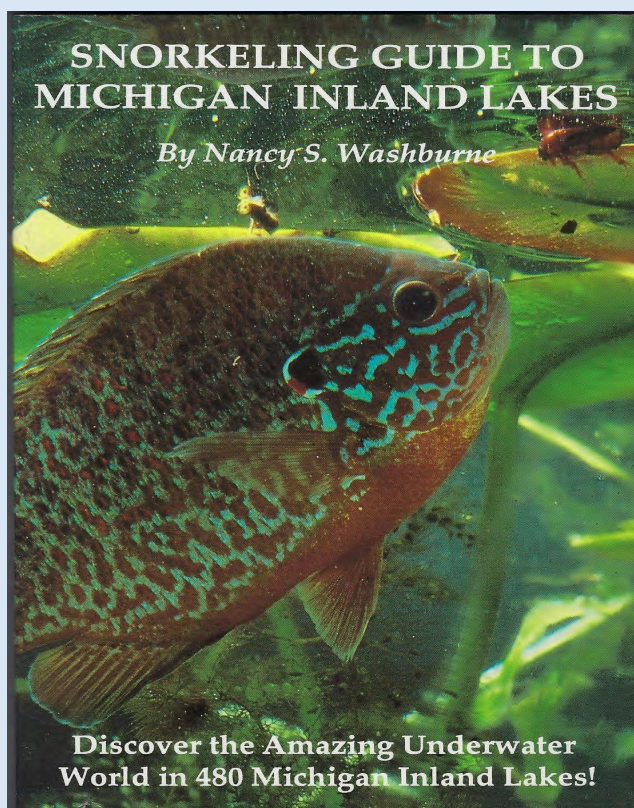
**ADVENTURER, AUTHOR, CONSERVATIONIST, EDUCATOR, ENTREPRENEUR,
EXPLORER, SNORKELER, SCUBA DIVER, UNDERWATER VIDEOGRAPHER /
PHOTOGRAPHER, AND PASSIONATE ADVOCATE FOR PRESERVING
AND PROTECTING OUR WORLD'S WONDER FILLED OCEANS AND LAKES**

A HUMBLE TRIBUTE TO THE EXTRAORDINARY NANCY SUE WASHBURNE

December 23, 1931 - January 4, 2022

*"Snorkeling can be a great spiritual experience. For me it always is. The peace, the tranquility and feeling of inner harmony it provides just naturally leads one to thoughts of the **Being** that created this incredible universe. One can come out of the water in a state of spiritual and mental healing. There is no question, it can be that kind of powerful experience if you are open to it." Nancy S. Washburne, 1997*

**THANK YOU WONDERFUL NANCY FOR DEDICATING YOUR LIFE TO SHARING WITH THE WORLD
YOUR UNWAVERING PASSION FOR CONSERVING OUR LIFE SUSTAINING OCEANS AND LAKES!!!**



TO VIEW A BRIEF VIDEO THAT REPRESENTS JUST ONE OF THE MANY THAT WERE FILMED, PRODUCED,
AND NARRATED BY NANCY THAT EXPLORES THE JOYS OF SNORKELING IN MICHIGAN INLAND LAKES,

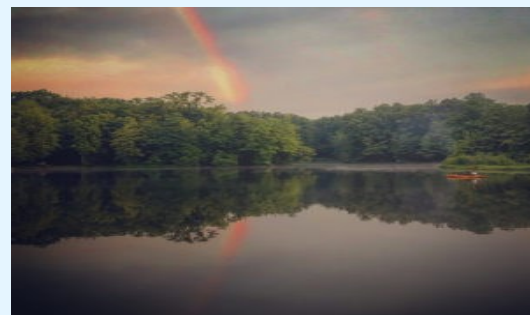
[CLICK HERE](#)

NALMS Takes a Stand for Clean Lakes Programming & Lake Shoreland Protection

By Jessica Converse, NALMS Policy Intern; NALMS 314 Working Group
December 7, 2021

Lake conditions change slowly over time, but their transformations are not to be minimized. These inland bodies of water are sentinels of climate change impacts over broader catchment scales. Additionally, diminished lake quality exacerbates the release of greenhouse gases (Beaulieu *et al.*, 2019) and encourages harmful cyanobacteria growth (Paerl, 2017), both of which impact public health. Without concerted effort to protect and restore water quality as well as reimagine investment into lake communities, we further jeopardize our most precious resource: freshwater. Unimpaired lakes support a greater abundance of life, are more resilient to the effects of climate change, and require less money to maintain than lakes requiring restoration. That is why, in addition to shoreland restoration efforts, NALMS is pushing for a protective stance to be taken, so that we can protect the best of what is left for the lakes and for the people.

Lakes provide innumerable ecosystem and cultural services that support all aspects of our lives. Lakes with good water quality even add economic value to nearby homes as well as bring significant tourism and recreation to their waters (Reynaud & Lanza, 2017; Schuetz *et al.*, 2001). Yet, high-quality lakes across the U.S. continent are disappearing, a fate that will impact cold water fish species and the fishing communities that rely upon them (Matthews *et al.*, 2018; Stoddard *et al.*, 2016). Globally, freshwater lakes are losing biodiversity at twice the rate of loss for land or ocean vertebrates (Tickner *et al.*, 2020). It is imperative that the United States do more to meet international conservation targets for lakes and freshwater biodiversity (McCullough *et al.*, 2019). We could further our impact on such high priorities by restoring funding to the **Clean Lakes Program** but with enhanced qualities that support a healthy lakes component and environmental justice goals.



Hidden Lake by Alex Boskovic

It would be remiss if we did not mention that the COVID-19 pandemic has left none unaffected, our lakes included. With more people working remotely from home, there has been a surge in folks looking for lakeshore property away from the city. Finding available lakeshore property is itself difficult and finding undeveloped lake shorelands is rarer still. This has led NALMS to develop a **Lake Shoreland Protection** position to defend our lakes against development to meet such housing demands. By protecting the natural, heavily vegetated condition of lake shorelands (an area encompassing the near-shore upland and littoral lake zones), high-quality lakes and lakes in healthy condition can maintain their own regulatory balance. This is consistent with the **Environmental Protection Agency's National Lakes Assessment** finding that undeveloped lakes support healthier combined habitat conditions than those of man-made or disturbed lakes (US EPA, 2009, 2016). It is important to recognize that most lakes may never return to their natural condition, however, it is possible to protect what undeveloped shoreland remains, and restore others to the best of our ability. Our lakes are clearly in peril, and without guidance or funding for lake shoreland protection, high-quality lakes will continue to be lost.

Continue to read this article by [clicking here](#)

Editors Note: It is important to note that the [University of Minnesota College of Science and Engineering's St. Anthony Falls Laboratory](#) conducted research study that is the focus of this article was partially funded by a significant grant from the Kalamazoo-based [Michigan Lakes and Streams Association](#).

Reference: <https://twin-cities.umn.edu/news-events/university-minnesota-researchers-study-waves-created-recreational-boats>



Photo credit: *Healthy Waters Initiative, University of Minnesota*

Research Brief

University of Minnesota Researchers Study Waves Created by Recreational Boats

February 1, 2022

A new study by researchers in the University of Minnesota College of Science and Engineering's St. Anthony Falls Laboratory found that popular wake surf boats require a greater distance from the shoreline and other boats compared to more typical recreational boats. This distance is needed to reduce the potential impact of their larger waves.

The results provide key insights into differences between specialized wake surfing boats and more typical recreational boats operating on lakes and rivers. It also provides baseline data that can be used for future decision-making.

Wakesurfing, which requires a boat capable of generating a large surfing wave, has become a popular pastime for some Minnesotans while sparking concerns in others about shoreline erosion, water quality, and safety. However, robust scientific data on the size and impact of wake surf boat waves has been lacking.

"Minnesotans love their lakes, and they love their boats," said Jeff Marr, one of the lead researchers on the study and associate director of engineering and facilities at the St. Anthony Falls Lab. "Some of my best memories are of boating, waterskiing, and fishing with family and friends on lakes. This research isn't about trying to limit enjoyment of lakes for boaters, but it seeks to provide the data needed to ensure our lakes can be enjoyed by all for generations to come."

In an effort to provide scientific data on boat-generated waves, the researchers carefully examined these waves by measuring the maximum height, total energy, and maximum power of the waves (defined as wake waves) produced by four recreational boats—two wake surf boats and two more typical recreational boats. Using sensors and data collection hardware, the researchers also measured how the wake waves changed as they moved away from the boats and toward shore.

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MLSA 61ST ANNUAL CONFERENCE

**Friday, May 6 and
Saturday, May 7, 2022**
Crystal Mountain Resort,
Thompsonville, Michigan



Send us your nominations for
2022 Riparian of the Year!

Now seeking presentation proposals and conference sponsors.
Visit mymlsa.org for details.



Visit mymlsa.org for more details

University of Minnesota recreational boat wave impact study...

[Continued from pg.5](#)

The researchers carried out the evaluation of the four boats in fall 2020 under a range of speeds, weight, and other conditions on Lake Independence in Maple Plain, Minnesota.

The findings reveal that wake waves produced by wake surf boats during wake surfing are not only higher, but they also require greater distance to decrease to the same height as wake waves from more typical recreational boats.

This study found that:

- When researchers compared the wake waves of the four boats during their most typical mode of operations, the data indicated that wake surf boats require distances greater than 500 feet from the shoreline/docks and other boats (or the distance of a little less than 1.5 football fields) to decrease their wake wave characteristics to levels similar to the non-wake surf boats.
- When researchers compared the wake waves of the four boats under conditions that generated the largest wake wave, the data indicated that wake surf boats require distances greater than 425 feet from the shoreline/docks and other boats to decrease their wake wave characteristics to levels similar to the non-wake surf boats.
- In both modes of operation, the suggested distance from shoreline/docks for wake surf boats is more than twice the distance of the 200 feet currently recommended by Minnesota guidelines for common recreational boats.
- Under both slow and fast speed conditions, the wake surf boats produced the largest waves in terms of height, energy, and power when compared to the non-wake surf boats.
- Larger, more energetic waves need to travel a greater distance to decrease in wave height, energy, and power.

To continue reading this article [click here](#)

MICHIGAN INLAND LAKES CONVENTION: PROTECTING LAKES TODAY FOR TOMORROW

SAVE THE DATE
September 14-16, 2022
Virtual via Zoom

For more information, visit <https://bit.ly/milc2022>

Mark your calendars!

The Michigan Inland Lakes Convention: Protecting Lakes Today for Tomorrow September 14-16, 2022

The three-day virtual Convention will include a plenary session with keynote addresses, workshops, concurrent sessions, a virtual educational resource room, awards, photo contests and trivia. [Sign up for our email list to get a notification when registration opens.](#)

Abstract Submission is Now Open

We are seeking abstracts that feature current and emerging research, policy, education, and management strategies for conserving and protecting inland lakes. Abstracts (up to 300 words) may be submitted for one of four options: 1) a 30-minute oral presentation; 2) a 1.5 or 3-hour interactive workshop; 3) a 90-minute oral session that you arrange with multiple speakers; or 4) a 5-minute lightning talk on your research, your organization or a program. We anticipate four concurrent sessions per time block. A limited number of spaces are available for each option. All presenters attending the virtual Convention receive free registration. This benefit only applies to active presenters.

Abstract submissions are open until **Friday, April 29 at 11:59 PM EST**. You will be notified by email in late May or early June if your abstract is accepted. For questions or additional information, please contact Lois Wolfson at wolfson1@msu.edu (517-230-9281) or Erick Elgin at elgineri@msu.edu (218-340-5731).

Visit <http://bit.ly/milc2022> to submit your abstract.

The Michigan Inland Lakes Partnership (MILP) invites you to support the 2022 Michigan Inland Lake Convention – Virtual. Join Michigan organizations, agencies, and businesses in helping advance stewardship of our inland lakes through learning, networking, and exchange of ideas.

The Michigan Inland Lakes Convention is a biennial event that brings together professionals, researchers, local government officials, students lake enthusiasts, and others interested in protecting Michigan's water resources. The online format will allow us to reach a large audience, provide an archive of recorded presentations, and offer lower registration fees. While the costs are decreased compared to an in-person Convention, there are still substantial costs associated with offering an accessible and successful online event including logistical and technical support, recording, captioning, and posting presentations for future access. Your support helps keep prices reasonable for all participants, allows us to offer student scholarships, and is an excellent exposure opportunity for your business or organization.

CONTRIBUTOR OPPORTUNITIES

To be a contributor:

Platinum: \$750+

- Special recognition throughout the Convention, including event announcements and press releases
- Organization logo displayed in Convention materials, website and social media

Gold: \$500

- Organization logo displayed on Convention website and social media
- Recognition during Convention

Silver: \$250

- Organization logo displayed on Convention website

Please make your check payable to "Muskegon River Watershed Assembly" and indicate that the funds are to be directed to the Michigan Inland Lakes Partnership.

Mail your contribution to:
Michigan Inland Lakes Partnership
c/o Muskegon River Watershed Assembly
Ferris State University
1009 Campus Drive JOH 200
Big Rapids, MI 49307-2280

The Muskegon River Watershed Assembly is a registered 501(c)3 nonprofit organization, and your contributions are tax deductible to the fullest extent allowed by law.

QUESTIONS?
Contact Dr. Jo Latimore at MSU:
latimor1@msu.edu
517-432-1491

Contribution Deadline:
August 12, 2022
<http://bit.ly/milc2022>



McNALMS Corporate Member Spotlight



How is RLS Different?

RLS is the only niche firm in the state of Michigan that offers ONLY lake restoration and management services. This is to best assist our lake communities with the best expertise possible that is needed for successful lake restoration projects.

Each RLS scientist is trained to target unique lake issues and offer cost-effective, ecologically sound, and sustainable strategies for optimum lake health.

MWA Mission Statement "This corporation is formed to protect, preserve and promote the wise use of inland waters – lakes, streams, rivers, creeks and the waters and bottomlands of the State of Michigan.

[Michigan Waterfront Alliance](#)

[Membership Application](#)

Please help us in our efforts to be a legislative "Watchdog" to protect Michigan's Inland Lakes & Streams.

Annual dues:

Individual membership \$50 Lake Associations \$100

Corporations \$200

Please print:

Name _____

Date: _____

Street _____

City _____ State _____

Zip _____ County: _____

Phone: _____

Email: _____

Make checks payable to: Michigan Waterfront Alliance

Send dues and contributions to: Michigan Waterfront Alliance

P. O. Box 369, Fenton, MI 48430

McNALMS Corporate Members 2022



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Complete Water Management

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Helpmylake.com



Phycotech.com



Plmcorp.net



Progressiveae.com/water-resources



Restorativelakesciences.com

McNALMS Board Members 2022

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(MSU Extension / Institute of Water Research)

President Elect: Melissa DeSimone

(Michigan Lakes and Streams Association)

Secretary: Roger Carey

(Retired Riparian)

Treasurer: Jason Broekstra

(PLM Lake & Land Management Corp.)

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(Retired Riparian)

Past President: Mike Solomon

(Wexford County Drain Commissioner)

Directors-at-Large

Ralph Bednarz (EGLE Retired)

Melissa DeSimone (MLSA)

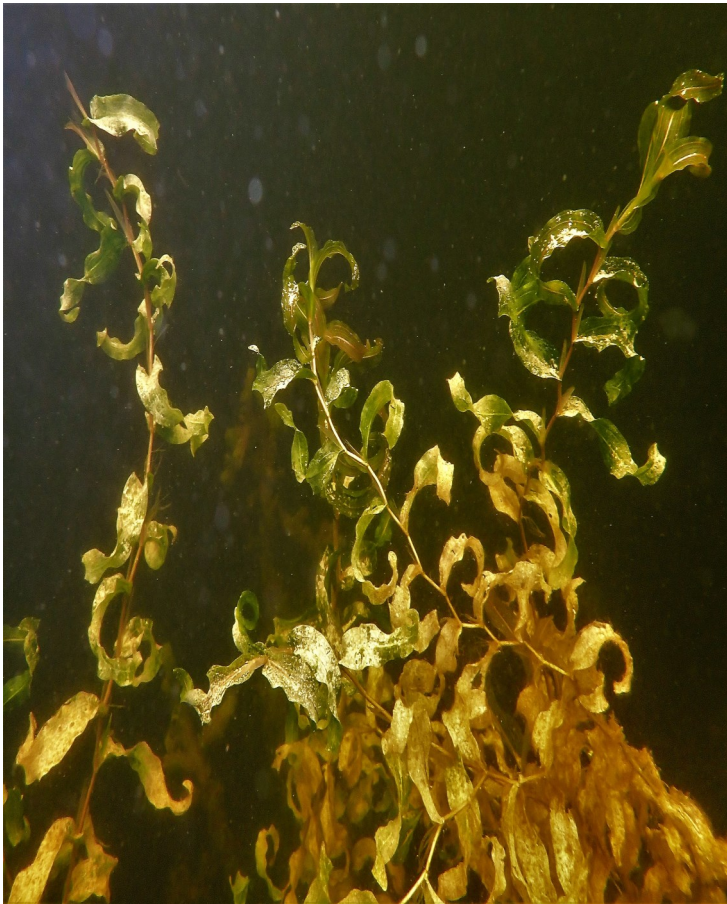
Joe Nohner (MDNR)

Scott Brown (MWA)

Michigan Inland Lake Partnership's Virtual Lake Learning Event Listing

Many organizations offer on-line learning opportunities throughout the year. For your convenience in helping to identify and track on-line events that may interest you, the **Michigan Inland Lake Partnership** has created a continually updated virtual event list that serves to highlight many current inland lake and water resources related on-line events. These organizations welcome participation by lake and water resource professionals, and the general public.

[Check it out today!](#)



Photos by W. S. Brown

An increasingly rare bio-Indicator of healthy inland lake ecosystems:

White-stem pondweed (*Potamogeton praelongus*)

McNALMS: Protecting and Managing Michigan's Inland Lakes