



Aquatic Plant News

The Newsletter of the Aquatic Plant Management Society, Inc.

November, 2020 – Issue 125



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APMS President's Update

I hope this email finds you and your families well during this time of quarantine, masks, and social distancing. COVID-19 has taken its toll on society during the past eight months in countless ways, and I would imagine many of our members have felt the pain of loss, financial burdens, and increased stress as we continually adapt to life with this virus. I am sure we all could dwell on the negatives, though there has been some good that has come out of all of this, well good from my perspective. In my corner of the world, life has slowed just a little and schedules have opened up due to cancelations, postponements, etc. You may have to put down your phones or turn off your computers to realize it, but for most people it has allowed greater time with family and loved ones. It has been a time for me to reflect on what is important.

As such, APMS will also need to reflect on where it has been so we can chart a course for the future. The current Strategic Plan ends in 2021 so a thoughtful assessment of the current plan by the board of directors will need to occur with feedback from the membership. Over the next year I will be working with Drs. Heilman (Chair of the Strategic Planning Committee), Thum (President Elect, and Hartis (Vice President) to establish the next strategic planning cycle and discuss how we may want to focus our efforts. If you have specific input regarding the strategic plan or other society business, please reach out to me or another board member. One important aspect of the plan will be the financial stability of the society for the coming years ahead.

As you all know we did not have our annual meeting in Texas this past July. The annual meeting is the most important source of revenue (outside of memberships) for the society and not having the meeting puts some financial burden on our operating expenditures. Fortunately, the board of directors established an emergency fund several years ago that would cover operating expenses for two years. We were fortunate this past summer that we

did not have to cover any contractual meeting costs from the emergency fund due to our cancellation, but it would be prudent given the current uncertainties to do everything possible to avoid utilizing those funds. In light of this, expenditures are being reviewed and ways to achieve cost savings are being sought. One such cost savings will be realized by moving the Journal of Aquatic Plant Management from print to an online platform. The board understands that this move may not be popular with everyone as the hard copy of the journal is a welcome site for many of our members. The board also realizes that besides the annual meeting, JAPM is our best product. However, the move to an online platform should be beneficial from a cost savings and visibility point of view.

During the July board meeting Editor Dr. Ferrell proposed moving the journal online as it would result in approximately a 50% cost savings each year. So beginning with the January 2021 issue, members will not be receiving a printed copy of the journal. In order to help transition the journal online and to bring awareness to the journal, plans are being made to send out member directed emails alerting when a new issue is available. The emails will contain a table of contents for each issue with hyperlinks to the articles. Articles will also be available on the APMS website as they have been for many years. Social media platforms will also be used to bring attention to the journal and new issues. Members will have access to all of the latest issues and articles and non-members can search the issues that are two years old or older. Additionally, the decision to move the journal online has led to the society has been contacted since by a few large database companies. These companies have royalty payment structures in place that would pay APMS each time these articles are viewed or downloaded.

The online journal has many benefits as outlined above, however it has raised some concerns with how we handle member vs. non-member journal



subscriptions; and how those large database companies gain access to issues and articles. It was brought to our attention this past summer that our website is woefully obsolete and needs to be upgraded for security reasons and to address the needed functionality. Dr. Hartis and the website committee is pursuing cost estimates with our current web designer APEX Web Studio to re-design and re-launch the website. So keep an eye out for a new website, maybe by next summer.

Looking to the future, I would challenge all of us to find new opportunities to engage folks who manage aquatic resources and invite them to get involved and work with APMS. There are some efforts underway to work more closely with the North American Lake Management Society, but other strategic partnerships are needed to grow APMS and our reach. A recent good example of society outreach is the co-sponsored webinars offered by APMS and the US Army Corps Engineers. Topics included monococious hydrilla, harmful algal blooms, giant salvinia, tough emergent, flowering rush, and invasive watermilfoils. The webinars to-date have been well attended with over 140 participants at each talk. Thank you to Dr. Heilman, the ad-hoc committee, and speakers of the webinars.

Lastly, I would also challenge the membership to volunteer and serve on committees or the Board of Directors. We are constantly looking for new faces and new ideas to make the Society better. Ultimately, this is your Society, your Profession, and it will be as good as the people who lead. So please get involved. It is a good thing to do and, trust me, you will enjoy the time spent and the friendships made.

Sincerely,

Ryan M. Wersal, Ph.D.
President – APMS

APMS 60th Annual Meeting

...From A Distance.

Although the year started off normally, APMS quickly had to pivot to accommodate the annual meeting which is usually held over a week in July. This disruption to in-person conferences and meetings necessitated the first-ever APMS Annual Meeting which was held online on July 21, 2020.

The meeting began with a summary of notable events, including highlighting an increased collaboration with other societies, most notably the North American Lake Management Society (NALMS) to share expertise and promote memberships in both APMS and NALMS. A coordinated effort to increase online learning opportunities via scientific webinars was also made a priority, and featured NEAPMS Past President and NALMS Past President, Dr. Ken Wagner talking about harmful algal blooms. Dr. Rob Richardson of North Carolina State University presented about aquatic plant management issues during the National Invasive Species Awareness Week.

For the past year, an APMS ad-hoc committee worked to draft a statement on equality and diversity in line with many of our affiliated organizations. The Board adopted the following statement on July 20, 2020, during the annual meeting, and it is posted on the APMS website:

Creating an atmosphere of inclusion is vital to the Aquatic Plant Management Society (APMS). Contributions and perspectives from all members, students, event participants, and our local and international communities are important. Diversity includes age, culture, disability, ethnicity, gender, national origin, color, race, religion, sexual orientation, and diversity of thoughts and ideas. We recognize that embracing and encouraging diversity is critical to fulfilling our mission to ‘Provide a forum for the discovery and dissemination of scientific information that advances aquatic plant and algae management policy and practice’. APMS will strive to further cultivate a Society built on mentorship, encouragement, tolerance, and mutual respect, and foster a welcoming environment for all.

The slate of officers for 2020-2021 was presented and installed and includes the following persons:

Office	Name	Affiliation	City	State
President	Ryan Wersal	Minnesota State University	Mankato	MN
Vice President	Brett Hartis	Duke Energy Carolinas	Huntersville	NC
Treasurer	Justin Nawrocki	UPL NA	Holly Springs	NC
Secretary	Amy Giannotti	AquaSTEM Consulting	Winter Park	FL
Director	Michael Greer	US Army Corps of Engineers	Buffalo	NY
Director	Erika Haug	North Carolina State University	Raleigh	NC
Student Director	Gregory Chorak	Montana State University	Bozeman	MT

A big thank you to APMS Past Secretary, Jeff Schardt, for his 19 years of service to APMS and for his dedication to gathering, collating, scanning, and posting APMS archival documents on the website. APMS now has a complete set of Journals and Newsletters posted on the website, as well as Meeting Minutes, a variety of other pertinent documents, and a photo gallery from past meetings. Thank you for all of your hard work, Jeff!

2020 APMS Awards

Under normal meeting circumstances, the highlight of the APMS Annual Meeting is the Tuesday evening Awards Banquet. APMS honors long-term achievements in aquatic plant and algae management, as well as ongoing and recently completed research at this event. The 2020 recipients were announced during the Annual Business Meeting via Zoom and are listed below. The plaques will be presented in person during the Presidents' Reception at the 2021 Annual Meeting in New Orleans, provided in-person meetings are possible by July. [Congratulations to the 2020 Award Recipients!](#)

Outstanding Research / Technical Achievement

Dr. Patrick J. Moran



The Delta Region Area-wide Aquatic Weed Project (DRAAWP) was awarded the 2020 Outstanding Research/Technical Achievement Award. Dr. Patrick J. Moran of the United States Department of Agriculture – Agricultural Research Service, Invasive Species and Pollinator Health Research Unit, is the lead Co-Director on the DRAAWP, which developed and implemented new and improved technology for integrated management of water hyacinth, Brazilian waterweed, and other floating and submersed aquatic weed species in the Sacramento-San Joaquin Delta of northern California.

Honorary Membership

Linda Nelson, Steve Brewer

APMS Honorary Membership is presented to persons who are retired, have been voting members of the Society for at least ten years, and have provided significant contributions to APMS or to the field of aquatic vegetation management. Thirty-seven Honorary Memberships have been issued during the Society's 60 years. For 2020, Honorary Memberships were granted to Linda Nelson (USACE, retired) and to Steve Brewer (Brewer International, posthumously awarded).

Outstanding Graduate Student Award

Gray Turnage

Gray Turnage from Mississippi State University was honored with the Outstanding Graduate Student Award for 2020.

Max McCowen Friendship Award

Mr. Tom Warmuth



The 2020 Max McCowen Friendship Award was presented to Mr. Tom Warmuth of BioSafe Systems and current president of the WAPMS. This award is a special recognition given to an APMS member whose demeanor and actions displace sincerity and friendship in the spirit of being an ambassador for APMS. Criteria for selection include warmth and outgoing friendship, sincerity and genuine concern, gracious hospitality, and positive attitude. Tom is the national Lake, Pond and Municipal representative for BioSafe Systems, focusing primarily on peroxide-based chemistries for treating Algae, Cyanobacteria and Human Health Pathogens for surface water, potable and wastewater. He has been involved with several regional chapters and national APMS chapters in varying roles on boards and committees over the past 12 years. He currently resides in Kure Beach, North Carolina with his wife of 15 years, Sara.

T. Wayne Miller Distinguished Service Award

Mr. Jeremy Slade



Mr. Jeremy Slade of UPL NA Inc received the 2020 T. Wayne Miller Distinguished Service Award. This award is presented to an individual to recognize "Service to the Society and the Profession." Jeremy has been active in APMS since 2005, serving as Treasurer for the last six years, and is currently the BASS Special Representative. He is the Business Lead for Aquatics at UPL and is an advocate for science-based aquatic plant management strategies.

Outstanding Journal Article

Melaney A. Dunne &
Raymond M. Newman

Melaney A. Dunne and Raymond M. Newman of the University of Minnesota received the Outstanding Journal Article for their publication – Effect of light on macrophyte sprouting and assessment of viable seedbank to predict community composition. The Outstanding Journal Article Award is presented to an author and co-authors, recognizing research published in the Journal of Aquatic Plant Management during the previous year that is unique and will further the science of aquatic plant management. The recipient(s) for this award is/are selected by the APMS Editor and Associate Editors. The award-winning publication can be found in July 2019 issue of JAPM.

President's Awards

Dave Petty, Bill Torres, and Rob Richardson

Three President Awards were presented in 2020 to Dave Petty (NDR Research), Bill Torres (Florida Event Planning and Meeting Service), and to Rob Richardson (NCSU).

Bill Torres has served many years in aquatic plant management as a biologist and Bureau Chief with FDEP. Most recently, Bill has been instrumental in helping APMS and affiliate regional chapters with securing conference venues and making sure things run smoothly during annual meetings.



David Petty has been a pesticide research consultant for 25 years. His specialty is environmental fate registration studies and registration support. He is also the editor for the AERF.



Rob Richardson is a professor and extension specialist for NCSU. His expertise in invasive plant management and sustainable weed management in a variety of habitats is unmatched. Rob served as the 2016 president of APMS.

Michael D. Netherland Graduate Student Research Grant

The Michael D. Netherland Graduate Student Research Grant is awarded to a graduate student conducting research in aquatic plant/algae management techniques or aquatic ecology in the management of nuisance species. The 2020 recipient is Jens Beets of North Carolina State University for his work "Evaluation of effect of biotype on biology and response to herbicides of aquatic macrophyte species." Jens is a graduate student working with Dr. Rob Richardson (NCSU) and Gregory Bugbee (Connecticut Agricultural Experiment Station)

APMS Student Director

Gregory Chorak

Gregory Chorak from Montana State University was voted by his peers to serve a one-year term as Student Director on the APMS Board of Directors for 2020-2021. The Student Director represents student issues and is a full voting member on the APMS Board.

APMS Needs You!

There are currently 16 committees active in APMS, and each plays an integral role in moving the Society forward, making sure the annual meeting is a success, and working to grow our organization. Each committee is led by a Chair who organizes the meetings throughout the year and provides direction for the committee members.

New ideas, suggestions for change, and feedback for the Society are important functions of these committees. Members of APMS are encouraged to volunteer to serve on a committee and we would love to have you!

APMS Chapter and Related Meetings

**With the disruption of meetings due to COVID-19, please see links to upcoming meetings and conferences. Some of these may have virtual learning options available and some may change meeting plans entirely, so please check the websites regularly for updated information. Updates and announcements are also made on the various social media channels, so monitor those for information, too.



Northeast APMS
January 12-14, 2021

Online Meeting

<http://www.neapms.org/conference>



Midwest APMS
February 22-25, 2021

Grand Rapids, MI

<https://www.mapms.org/conferences/2021-conference/>



Western APMS
March 1-4, 2021

**Joint meeting with Western Society of
Weed Science**

<https://wapms.org>



SC APMS
October 6-8, 2021

Myrtle Beach, SC

<http://scapms.org/meetings.html>

Save The Date!



Annual Meeting in New Orleans, LA

July 11-14, 2021

The 61st Annual Meeting planning is well underway, and we are hoping to be able to gather in person by July. The Program Committee is working on seminar sessions featuring management strategies, ecological challenges, invasion ecology, and other relevant topics for managing aquatic plants and algae. Information will be shared in both oral and poster presentations, and student attendance and participation are encouraged!

Nestled along the banks of the Mississippi River, this venue is sure to be an excellent gathering place. It is an easy walk to the French Quarter, Jackson Square, and not too far from those delicious mouth-watering

beignets. As riverboats sail by on the River and jazz musicians are playing their tunes, conference attendees can explore the history, cuisine, and culture that this beautiful city has to offer.

Here is a link to the hotel:

- <https://www3.hilton.com/en/hotels/louisiana/hilton-new-orleans-riverside-MSYNHHH/index.html>

Please find the link to reserve your room for the 2021 APMS Conference here:

- <https://book.passkey.com/go/AquaticPlantManagement2021>

More details are forthcoming! Watch the APMS website and social media channels for further announcements.

What's New for 2021?

APMS is looking at two major improvements for 2021 to help streamline the content we deliver, make member interaction easier, and provide a more relevant framework capable of handling APMS's digital content.

First, the Journal of Aquatic Plant Management (JAPM) will be moving fully online as of January 2021. The JAPM will be published two times per year, approximately January and July, and access to newer journals will be provided for current members. Previous issues (1961 through 2019) are currently available free of charge on the website at <https://www.apms.org/journals/>. As always, each title and abstract are freely accessible to all members of the general public. Full versions are available to members by logging into the Members Only section of the website.

Second, the APMS website will be undergoing a complete redesign and overhaul in the next few months. This will make it more modern looking and will make it easy to use across all digital platforms including mobile devices, tablets, and desktop computers. This effort will include migrating all existing documents, files, photos, and other content from the current site to the new site, and it will include an integrated member management system and meeting management system to streamline member services.

Die-back of elephant ear in Baton Rouge, Louisiana

News Alert

Veronica Manrique¹, Rodrigo Diaz², Rodrigo Valverde³

¹Department of Urban Forestry and Natural Resources, Southern University, ²Department of Entomology, and ³Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center

Elephant ear or taro (*Colocasia esculenta*) is an emergent aquatic weed native from Asia. Natural infestations of taro are present across southeastern United States. Monocultures of taro result in displacement of native vegetation, decrease on water quality, and reduction of habitat for wildlife and recreational activities. Taro is widespread in Louisiana, but it has been particularly problematic at the Bluebonnet Swamp Nature Center in Baton Rouge. But in October 2020, park volunteers noticed a rapid decline of taro growth in many sites at the center.

The die-back of taro can be described by yellowing and bending of the leaves, reduction on stem density, and presence of rotten leaves and stems. Field observations suggest that the die-back occurs rapidly based on reduction of taro coverage measured in field plots from October to November 2020. Upon close examination at the die-back site, taro had large infestations of a planthopper and symptoms of plant diseases. The plant hopper was identified as *Tarophagus colocasiae* and is native from Asia. This plant hopper has also been reported in North Florida. Adults and nymphs of the plant hopper feed on the petioles and leaves of taro. In Asia and Hawaii, damage by plant hoppers have been associated with poor performance of cultivated taro. In addition, taro leaves showed a feathering and deformation patterns, which are typical symptoms of viral infections. PCR testing confirmed the presence of the dasheen mosaic virus and we are investigating the possibility of a second virus. Other damage observed was yellow-brown necrotic spots on the leaves probably due to an unknown pathogen. By November, many taro leaves were bended to the ground and tubers were completely rotten.

This new plant hopper and diseases may provide prospects for managing invasive taro in Louisiana, however, the potential impact of this insect and pathogens on ornamental taro remains to be determined. In addition, the extent of this die-back in Southeastern United States is unknown. We invite the APMS audience to help us understanding the distribution of the planthopper. If you find the planthopper on taro leaves, please take a picture and upload it Inaturalist.org. For more information and pictures about the taro die-back, please visit www.lsuagcenter.com/colocasia



2020-2021 APMS Officers, Directors, Committees, and Special Representatives

Office	Name	Affiliation
President	Dr. Ryan Wersal	Minnesota State Univ - Mankato
President-Elect	Dr. Ryan Thum	Montana State University
Vice President	Dr. Brett Hartis	Duke Energy
Immediate Past President	Dr. Mark Heilman	SePRO Corporation
Treasurer	Dr. Justin Nawrocki	UPL North America, Inc.
Secretary	Amy Giannotti	AquaSTEM Consulting
Editor	Dr. Jason Ferrell	University of Florida
Director, 3rd Year	Marc Bellaud	SOLitude Lake Management
Director, 3rd Year	Amy Ferriter	Nutrien Solutions
Director, 2nd Year	Dr. Lynn Gettys	University of Florida
Director, 2nd Year	Dr. Christopher Mudge	USA ERDC-EEA
Director, 1st Year	Michael Greer	US Army Corps of Engineers
Director, 1st Year	Dr. Erika Haug	North Carolina State University
Student Director	Gregory Chorak	Montana State University
Committee	Chair	Affiliation
Awards	Dr. John Madsen	USDA ARS, Davis, CA
Bylaws & Resolutions	Dr. James Leary	University of Florida
Education & Outreach	Dr. Brett Hartis	Duke Energy
Exhibits	Dean Jones	UPL North America, Inc.
Finance	Andy Fuhrman	All State Management
Legislative	Dr. Rob Richardson	North Carolina State University
Meeting Planning	Dr. Rob Richardson	North Carolina State University
Membership	Marc Bellaud	SOLitude Lake Management
Nominating	Dr. Mark Heilman	SePRO Corporation
Past Presidents Advisory	Dr. Mark Heilman	SePRO Corporation
Program	Dr. Ryan Thum	Montana State University
Proposal Review	Dr. Mark Heilman	SePRO Corporation
Publications	Dr. Jason Ferrell	University of Florida
Regional Chapters	Gray Turnage	Mississippi State University
Scholastic Endowment	Tom Warmuth	BioSafe Systems
Student Affairs	Sam Sardes	SOLitude Lake Management
Special Representatives	Name	Affiliation
AERF	Carlton Layne	Aquatic Ecosystem Restoration Foundation
BASS	Jeremy Slade	UPL North America, Inc.
CAST	Lynn Gettys	University of Florida
NALMS	Terry McNabb	Aquatechnex
RISE	Sam Barrick	SePRO Corporation
Women of Aquatics	Amy Kay	Clarke
WSSA	Dr. Rob Richardson	North Carolina State University
Science Policy Director	Lee Van Wychen	Nat'l & Regional Weed Science Societies

Incorporated in 1961 as a forum to share
water hyacinth control experiences,
today APMS and its seven Regional
Chapters promote research and outreach
to manage all species of aquatic plants
and algae.



General Info for Membership, Etc.

The Aquatic Plant Management Society, Inc. is an international organization of scientists, educators, students, commercial pesticide applicators, administrators, and concerned individuals interested in the management and study of aquatic plants and algae. The membership reflects a diversity of federal, state, and local agencies, universities and colleges around the world, corporations, and small businesses.

● VISION

The Vision of the Aquatic Plant Management Society is to be the leading international organization for scientific information on aquatic plant and algae management.

● MISSION

The Mission of the Aquatic Plant Management Society is to provide a forum for the discovery and dissemination of scientific information that advances aquatic plant and algae management policy and practice.

● MEMBERSHIP

Individual	\$95.00	Entitles member to vote, hold office, serve on committees, and receive publications
Student	\$20.00	Full time students receive same privileges as Individual member
Sustaining	\$500.00	Membership privileges for one designated representative; subscription to the Journal of Aquatic Plant Management, APMS newsletters, and access to the APMS Blog and social media content; quarterly issues of Aquatics magazine; recognition as a Sustaining Member in newsletters, the Annual Meeting Program, and on the APMS website

To join, visit this link: <http://www.apms.org/society/membership/>

To renew a membership for 2021, login and visit this link: <https://www.apms.org/member-page/renew-membership/>

Follow us and Learn More:

- Twitter - @APMSociety
- Instagram - @apmsociety
- Facebook - @APMS1961

News and Updates from Regional Chapters

From FAPMS

For the last 9 months, COVID-19 has significantly disrupted our work environments, supply chains, and opportunities for learning. Despite the fact that in-person conferences and meetings have been cancelled or delayed indefinitely, there are still many ways to continue to learn about aquatic plant management, network with colleagues, and even earn CEUs during this time of necessary physical distancing.

Florida Aquatic Plant Management Society (FAPMS) is proud to announce the launch of a newly designed website which is much more user-friendly and looks great, too!! A big thank you goes to the website committee (Angie Huebner, Scott Jackson, Dr. James Leary, Kelli Gladding, and James Boggs) that worked so hard to make this happen! Please visit <https://fapms.org> and have a look! There are some items that are still being routed from the old website to the new website (e.g. archived issues of Aquatics magazine, etc.), so please check back often and see what's new!

Speaking of Aquatics, a reminder that submissions to Aquatics magazine are always welcomed! Articles are typically 1,000-2,500 words in length, include a few photos, and are written for the general public. And although the magazine originates in Florida, content from all over the world is welcomed! We learn best from each other, and we'd love to hear from you!

APMS Member Jeff Schardt Receives 2020 Dr. Michael D. Netherland Exemplary Colleague Award from FAPMS

For more than 30 years, Jeff worked for the Invasive Plant Management Section (IPMS) now within the Florida Fish and Wildlife Conservation Commission, previously the Florida Department of Natural Resources (DNR) and Florida Department of Environmental Protection (DEP). He was the invasive aquatic plant management program coordinator for the majority his tenure, where he requested and managed funding for controlling nuisance aquatic vegetation in public systems across the state. He worked to provide answers to aquatic plant research questions with a long-standing history of collaboration with the University of Florida and US Army Corps of Engineers, where his professional affiliation and personal friendship with Dr. Mike Netherland originated. He and Mike wrote several significant pieces (e.g., <http://www.apms.org/wp/wp-content/uploads/2012/09/APMS-definition-of-control.pdf>). During his career with the IPMS, Jeff also mentored many aquatic plant biologists within and outside the agency.

Mr. Schardt also worked in collaboration with the University of Florida on the educational front through the Florida Teachers Plant Camp. This program was developed for Florida science teachers to produce outreach materials and classroom curricula related to invasive aquatic plants and management efforts in Florida. He worked with federal and state agencies to implement common sense regulatory and management approaches related to NPDES permitting and protecting endangered species.

In 2000, Mr. Schardt served as the President of the Florida Aquatic Plant Management Society and received the FAPMS lifetime membership award in 2014. He also served as president of the national APMS in 2006. Jeff just recently "retired" again from serving in the aquatic plant management industry through his participation on the national APMS Board of Directors as the Secretary. Jeff served a total of 19 years with APMS and was active in several important leadership roles.

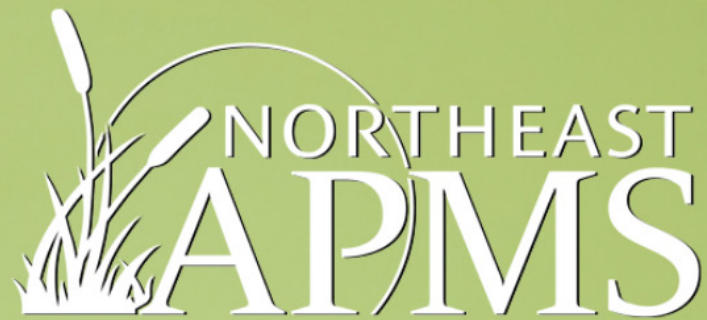


From SCAPMS

SCAPMS has tentatively set the 2021 Annual Meeting for October 6-8, 2021, at the Ocean Drive Beach and Golf Resort in Myrtle Beach, SC. Check back here for more info: <http://scapms.org/meetings.html>

From NEAPMS

The Northeast Aquatic Plant Management Society (NEAPMS) will be holding its 22nd annual meeting online. Conference dates are Tuesday January 12th to Thursday January 14th, 2021. Tuesday will feature a 3-hour algal identification and ecology workshop. Wednesday will include a half day of technical presentations on a variety of topics, as well as a poster slam. Thursday will feature a half day of technical presentations. More information can be found at <http://www.neapms.org/conference>.

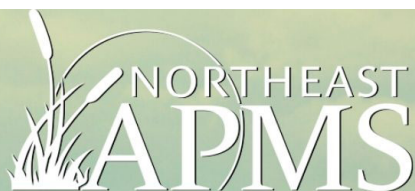


2021 Virtual NEAPMS Scientific Poster Contest

Professional Posters are always
welcome.

Sponsor it? Contact: Glenn
gsullivan@solitudelake.com

Be a Poster Judge? Contact: Meg
mmodley@lcbp.org



Graduate and Undergraduate Scholarships and Stipends Available!



The Northeast Aquatic Plant Management Society announces the availability of scholarships for students pursuing degrees in the field of Aquatic Plant Management (APM).

Graduate Scholarships are available up to \$5,000 and undergraduate students involved in APM internships are eligible to apply for a salary stipend and/or related expenses.

*For more details: [www.http://www.neapms.org/](http://www.neapms.org/)
Click on "Students" and/or "Donate" tabs on our website*



NEAPMS 2021 Conference Announcement

General Conference Information

The Northeast Aquatic Plant Management Society (NEAPMS) will be holding its 22nd annual meeting online. Conference dates are Tuesday January 12th to Thursday January 14th, 2021. Tuesday will feature a 3-hour algal identification and ecology workshop. Wednesday will include a half day of technical presentations on a variety of topics, as well as a poster slam. Thursday will feature a half day of technical presentations.

Conference Registration Rates

Online conference registration is \$50 for regular attendees. There is no cost for student registrants, however we do ask students to still register online. Registration also includes society membership for 2021. Please check the NEAPMS website regularly for further updates at www.neapms.org.

Posters Needed

We are looking for a few more technical posters to round out our Poster Slam Session. We especially welcome student poster presenters! If you wish to submit an abstract for a technical poster, please email that to Chris Doyle naiadconsultants@gmail.com.

Sponsors and Exhibitors

Sponsorship: Sponsors contribute financially to the Society to help support programs and events. Time is allocated during the conference for sponsors to provide industry updates or related informational presentations. We offer a variety of sponsorship levels, as well as distinguished sponsorship opportunities each year.

Anyone interested in sponsoring may visit the NEAPMS website, or contact Glenn Sullivan, NEAPMS Sponsorship and Exhibitor Coordinator at gsullivan@solitudelake.com.

Virtual Conference Format Preliminary Program

Below is the anticipated timeline for our 2021 online meeting (all times are eastern):

Tuesday January 12, 2021

- 1-4pm Algae Identification and Ecology Workshop with Dr. Ann St. Amand and Dr. Ken Wagner

Wednesday January 13, 2021

- 8:45am Welcome
- 9am Keynote
- 9:30am to 10:45am New Technologies presentations and industry updates
- 11am to 11:50am Harmful Algal Blooms presentations
- 11:50am to 12:15pm Poster Slam

Thursday January 14, 2021

- 8:45am Welcome
- 9am Keynote
- 9:30am to 10:45am Ecology and Emerging Threats presentations
- 10:45am NEAPMS Business Meeting
- 11:15am to 12:30pm Aquatic Plant Control presentations
- Closing remarks and Raffle

