

Nor'Easter

a newsletter of the northeast aquatic plant management society

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The Purpose of the Society shall be to assist in the management of aquatic vegetation, to provide for the scientific and educational advancement of the members, to encourage scientific research in all facets of aquatic plant management, to promote an exchange of information among members, and to extend and develop public understanding in the discipline.

Mission Statement, adopted April 20, 1999

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Cover photo, A. Bove

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A MESSAGE FROM CHRIS DOYLE, NEAPMS PRESIDENT

Change is all around us. There is evidence our climate is changing. Northeast States, some more than others, experience a constant change in the morass of regulatory hurdles in which lake managers must negotiate to control nuisance aquatic plants or algae. Companies change as they are sold, bought, merged, re-named, and re-branded, sometimes all in the same year! And the Northeast Aquatic Plant Management Society changes as we grow, and in an effort to provide improved benefits to our members, sponsors, and attendees to our annual conference. In 2016, I'm pleased to announce our conference drew over 200 attendees to Saratoga Springs for 2+ days of workshops, presentations, exhibitors and networking, our highest attendance to date!

Some changes are obvious and visible to all members. These include changes in the conference venue, changes in our Board of Directors, and changes in conference attendance fees. Recent changes to our Poster Contest and Aquatic Plant Workshop are open and have received enthusiastic support. Other changes occur behind closed doors, as the BOD works to improve the financial support and security of the Society, and the allocation of where our funds go. Most members are not exposed to the ongoing efforts regarding the alteration of our sponsorship program to invigorate society funding opportunities, such as the scholarship program.

The scholarship program is of paramount importance to the Society. Every available dollar the Society can muster goes to this fund, to foster lasting relationships with accredited institutions and young scientists eager to work in our industry. It's always been a priority to seek institutions and students in the geographical Northeast, but this has not always been possible. Often, it has been a struggle to find institutions/scientists/projects based in the Northeast that the Scholarship Committee supports for funding. In some years, we don't even receive any requests for funding. Thus in recent months, we have been discussing the possibility of pooling our funding with MAPMS, to be matched by the national APMS. This creative "change" provides numerous benefits to both Society chapters and the hope is with a larger funding amount, it could attract additional institutions and scientists unfamiliar with our Society. In an ironic twist, in 2016 we have approved scholarship funding for three outstanding projects, two of which are based in the Northeast, and the third from a student and institution, although outside of our geographical region, have strong ties to the Northeast.

I would be remiss without acknowledging several very important BOD members. Ann Bove has gone above and beyond stepping in to help out the society as a BOD member and at-large fill-in over the years. She has agreed to take over the role of Newslet-



ter Editor while I serve my term as President, and for that, I'm deeply thankful. And as usual, she too has embraced change, putting her own spin on the newsletter. Will Stevenson assumed the position of Treasurer in 2015, and survived his first conference. Will had huge "cros" to fill replacing Jim Sutherland, and passed with flying colors (mostly orange), and did not hesitate making numerous changes to the methods of balancing the books. I'm thankful to Will for a smooth transition regarding such an important role with our Society. And finally, a huge thank you goes out to Amy Smagula, the Secretary of the Society, and the keeper of the NEAPMS lore. She is the glue that holds the Society together, and despite waxing poetic on the virtues of changes for a few paragraphs, I dread potential changes to our BOD if/when she does step down as Secretary.

See, "change" is everywhere.

Chris Doyle, CLM

President, NEAPMS

***Egeria densa* INVADES CONNECTICUT, THREATENS NORTHEAST**

Greg Bugbee

The Connecticut Agricultural Experiment Station

Egeria densa (Brazilian waterweed) is an aquatic plant native to the temperate regions of South America but is capable of invading lakes and ponds throughout the northeast. As a popular aquarium plant, it is sold under a variety of common names including anacharis, oxygen weed and Brazilian elodea. The scientific names can also be confusing as the plant has been called *Anacharis densa* and *Elodea densa*. Brazilian waterweed is a rooted submersed monocot that is similar to native waterweeds (*Elodea* species) and invasive hydrilla (*Hydrilla verticillata*). Key differences are the leaves of

Brazilian waterweed are usually in whorls of four compared to three for *Elodea* sp. and five for hydrilla (photo 1). The plant is also generally stockier but unlike hydrilla (monoecious form) does not produce tubers, turions or seeds. This restricts reproduction to fragmentation and should make the plant easier to control. Brazilian waterweed forms dense mats along the bottom that effectively crowd out native vegetation. Often the mats reach to just below the surface of the water and interfere with recreation. The plant is often assumed not hardy to the northeastern United States yet occasional sightings are documented. The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program (CAES IAPP) has found

Brazilian waterweed in four Connecticut lakes and ponds. Most introductions are thought to come from the dumping of unwanted aquariums. In 2008 and 2010, CAES IAPP surveyed stores selling aquarium plants and found 17 and 11 percent, respectively, were marketing Brazilian waterweed even though it was banned from sale in CT. In all cases, the plant was either incorrectly labeled or not labeled and the sellers were not aware of the actual species they were selling. In 2011, CAES IAPP provided all sellers with educational information on banned invasive aquatic plants and performed resurveys in 2012. No Brazilian waterweed was found in the resurveys and an instance of success through voluntary compliance after proper education was verified.

The ability of the plant to rapidly colonize a waterbody over a five year period from 2009 to 2013 was documented, by CAES IAPP, in Fence Rock Lake, Guilford CT (see photo 2). In 2014 and 2015, CAES IAPP conducted research on control using bottom injected Reward (Diquat dibromide) applied in July at a rate of 1 gallon per acre (average depth 6 feet). One hundred and eight georeferenced grid points were surveyed before and after each application. Prior to the application in 2014, 57 points contained Brazilian waterweed. One year later the plant was growing at only one point. Another treatment was then performed in hopes of

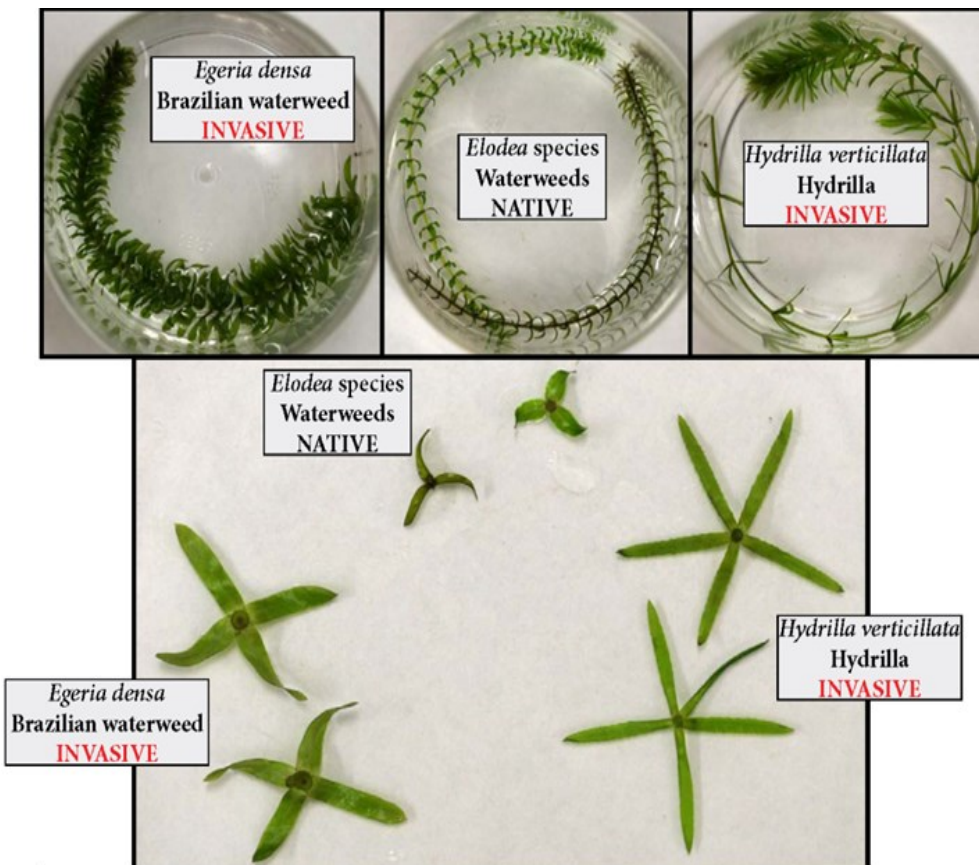


Photo 1. Comparison of *Egeria* with *Elodea* and *Hydrilla*

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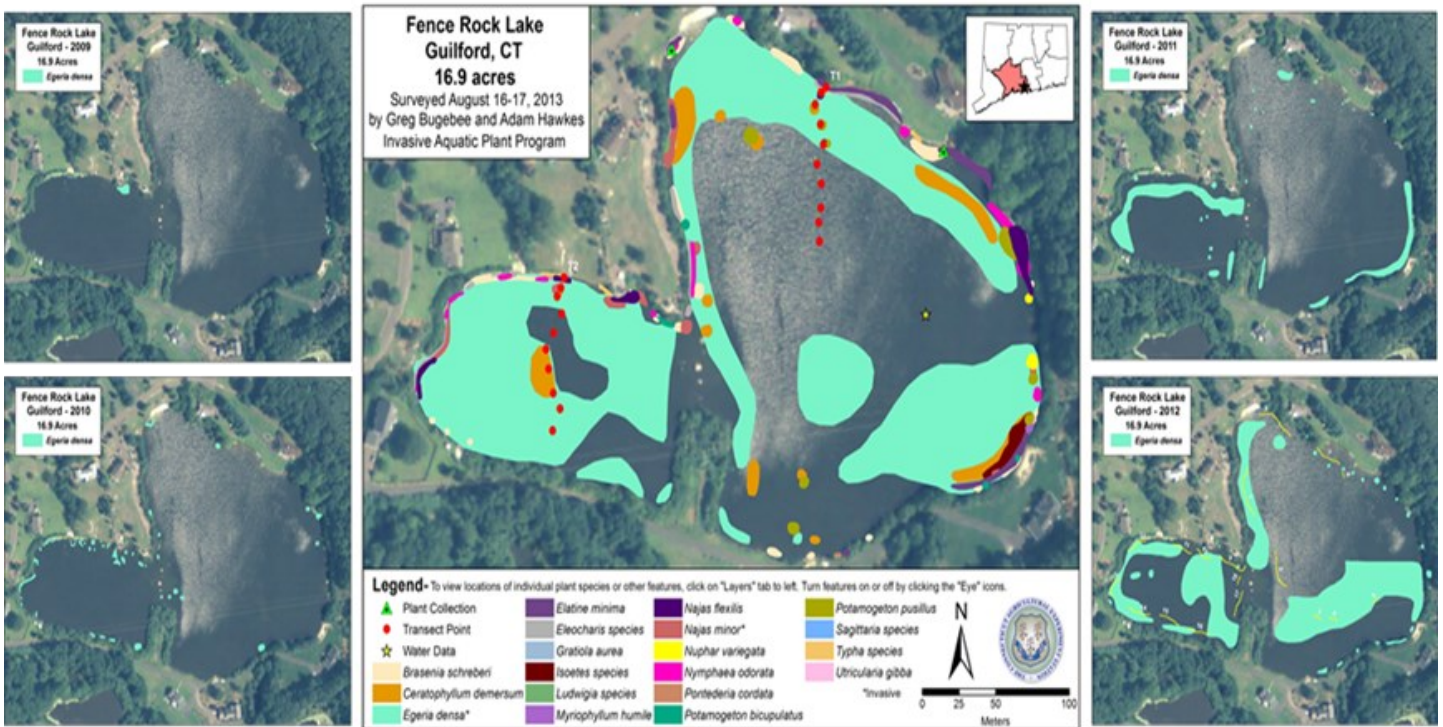


Photo 2. Rapid spread of Egeria from 2009 to 2013 in Fence Rock Lake

complete eradication.

In summary, Brazilian waterweed is an invasive species capable of surviving in lakes and ponds throughout the northeast. Stores selling aquarium plants should be aware of its invasive nature and cease sales. Stakeholders should know how to identify Brazilian waterweed in order to facilitate early detection and rapid response.

SOCIETY FISCAL HEALTH

Will Stevenson, SOLitude Lake Management
NEAPMS Treasurer

Hello Members,

Our fiscal year runs 4/1 to 3/31 so we have just ‘closed the books’ on FY 2015. Having held a very successful conference with larger attendance and more sponsors we continue to be in a financially stable position assuming operational expenses, attendance and sponsorship remains similar to years past. Our year end positions by account follow:

- Scholarship \$11,370.05
- Operational Checking \$10,222.07
- Emergency CD \$10,222.07

I am careful to list the accounts in that order as the scholarship is a key component of the mission of the Society and this year we have contemplated more scholarship locally as well as committed to supporting a joint scholarship with MAPMS and the National AMPS. We continue to monitor costs of the programs and take advantage of savings, with the realization that we ask volunteers to perform all the

administrative, planning and oversight functions of the Society. The Board has had discussions about the level of reserve / emergency funds on hand and given that the cost of the program continue to be higher than registration (\$175 for registration, vs 5-yr average of \$221/person and a 2-yr average of \$204/person) the Board will continue to review cost savings options as well as revenue opportunities.

Regards,
 Will Stevenson

NEAPMS SCHOLARSHIP UPDATE

Chuck Boylen, *Rensselaer Polytechnic Institute*

Scholarship Chairman

Scholarship is one of the most important activities of the NEAPMS. The Scholarship Committee has been active these last few months reviewing student proposals from several areas within our membership and I am pleased to report the Board of Directors have approved three for 2015-2016.

Erica Haug from North Carolina State University's Fisheries, Wildlife and Conservation Biology Department was awarded a graduate scholarship in 2015 for her Ph.D. research on

"Monoecious Hydrilla Growth Response under No Light Conditions." Erica gave an excellent oral presentation on her research at our January 2016 conference. Her advisor is Rob Richardson.

Two awards have been made for 2016. The first was to Robin Sleith at the Bronx Botanical Gardens for his research on "Dispersal and Population Structure of the Invasive Starry Stonewort (*Nitellopsis obtusa*) and Two Native Species of Characeae in the Northeastern U.S.A." Robin's advisor is Kenneth Karol. Robin also gave an excellent presentation at January's conference.

The second recipient for 2016 is Jason Lech who is pursuing his graduate degree in the Center for Environmental Sciences and Engineering at the University of Connecticut. His Ph.D. research encompasses the "Effects of Invasive Plants on Community Structure of Lakes and Predicting Dominance of Invasive Species." Jason's co-advisors are Donald Les and Michael Willig.



Erica in the lab.

UPDATE FROM ERICA HAUG

North Carolina State University

2015 NEAPMS Graduate Scholarship

I am truly honored to have been selected as the 2015 recipient of the NEAPMS Graduate Student Research Grant. The funds provided by the Society will help me evaluate carbon storage and utilization by monoecious hydrilla (*Hydrilla verticillata*) during active growth under no light conditions. Studies will measure the non-structural carbohydrate levels in tubers and shoots separately after differential length exposures to black out conditions. This study will provide insight into the length of time required for light blocking bottom barriers to exhaust the starch reserves of sprouted monoecious hydrilla tubers. Thus far I have completed two ten-week runs of the experiment. At 2-week intervals replicate plants were harvested from the dark room and measurements of shoot and tuber dimensions as well as dry weight measurements were collected. Carbohydrate analysis will be conducted this summer and data will be analyzed this fall in preparation for the 2017 NEAPMS meeting. Receiving the

NEAPMS Graduate Student Research Grant meant a lot to me both professionally and personally. While the grant money will certainly be helpful in supporting my research, it is having the support of my colleagues from my home chapter of APMS as I work towards my Ph.D. that means the most to me. Thank you all for your continued support.

An advertisement for SePRO Corporation. The top half features a scenic view of a lake with green fields in the background. Overlaid on the right is a blue box with the text "Our Expertise" and a list of services: "Algae & Cyanobacteria", "Aquatic Weeds", "Phosphorus Mitigation", and "Water Quality Analysis". Below this, the text reads "Solutions to preserve our most precious natural resource..water." and "The Stewards of Water". In the foreground, several product containers are shown: a white bucket labeled "SonarOne", a white bag labeled "Komeen Crystal Aquatic Herbicide", a white bag labeled "SeClear G Algaecide and Water Quality Enhancer", and a white bag labeled "PHOSLOCK Phosphorus Locking Technology". At the bottom, a text box states: "For over 20 years, SePRO Corporation has developed innovative technologies to advance the science of surface water resource management. Solutions to control algae, cyanobacteria, and aquatic weeds, and improving water quality. Contact SePRO Technical Specialist David van Leeuwen at 973-567-1170 or davidv@sepro.com". The SePRO logo is in the bottom right corner. A small disclaimer at the very bottom reads: "Always read and follow label directions. SonarOne, Komeen and SeClear G Algaecide and Water Quality Enhancer are trademarks of SePRO Corporation. Phoslock is a registered trademark of Phoslock Water Solutions, Ltd. ©Copyright 2016 SePRO Corporation."

STATE UPDATES

CONNECTICUT

Greg Bugbee

The Connecticut Agricultural Experiment Station

CT DEEP awarded \$121,200 in invasive aquatic species matching grants to fund 10 projects statewide. The projects ranged from conventional herbicide applications and benthic barriers to research on carbon dioxide injections for controlling zebra mussels. A key sponsor of the funding and long-time supporter of Connecticut lakes was Senator Clark Chapin who announced he would not seek reelection this fall. At the spring meeting of the Connecticut Federation of Lakes, Senator Chapin was honored for his outstanding efforts. Water chestnut continues to spread throughout the state. The Connecticut Agricultural Experiment Station Invasive Aquatic Plant Program found several new locations in 2015.

MAINE

John McPhedran

Maine Department of Environmental Protection (DEP)

Pet Store Finds

Flora: Maine DEP staff visited 33 pet stores from December 2015 through January 2016 in search of Maine's eleven prohibited invasive aquatic plants. Aquatic plants were found at 23 stores. Prohibited plants were found at four stores. Representatives of the stores with prohibited plants provided Maine DEP with plants for genetic testing and/or disposal. Key findings regarding these prohibited plants are as follows:

- *M. aquaticum* was found at all four stores selling restricted plants. Species identification was confirmed by Project Aquagen Laboratory at Grand Valley State University in Michigan.
- All stores selling prohibited plants had the same regional distributor: Fish Mart (CT).

- One store was selling *Egeria densa* and *Cabomba caroliniana* in addition to *M. aquaticum*.

The plant identified as *M. aquaticum* through genetic analysis was purchased by Fish Mart under the name *M. simulans* from a distributor in Florida, Florida Aquatic Nurseries. Additional testing of plant samples generously provided by both Fish Mart and Florida Aquatic Nurseries confirmed the identification of *M. aquaticum*.

Both distributors have been cooperative through the process, have readily communicated with DEP staff and have clearly expressed desire to conform to state laws. Since confirmation of the additional milfoil samples, both distributors have agreed to end sale of *M. simulans* to stores in Maine.

Fauna: In a tale of interagency collaboration, DEP staff discovered in April 2016 a freshwater mollusk in the genus *Corbicula* at a pet store. Maine Department of Inland Fisheries and Wildlife (DIFW) lists unrestricted fish and wildlife species, i.e., species that do not require an importation permit or possession permit and may be traded by commercial pet shops. No species of freshwater clam is on Maine DIFW's unrestricted list. Within hours of receiving the clam notification from Maine DEP, Maine DIFW's Warden Service reminded the store owner of the regulation and removed remaining specimens from the fish store tanks. Identification to species is pending.



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*Terms and Conditions of the 2015 Aquatic Herbicide Performance Guarantee apply. The maximum benefit a Qualifying Participant may receive during the 2015 Program Period is a \$50,000 contribution toward the cost of retreatment.

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Divers and OSHA Standards

Occupational Safety and Health Administration (OSHA) commercial diving standards may apply to plant removal programs that compensate SCUBA and/or hookah divers for plant control work. To the extent plant removal operations are subject to OSHA commercial diving standards, Maine DEP is requiring that recipients of 2016 grant funds comply with these standards. These standards require additional equipment, training and personnel that could have a significant impact on costs incurred for lake associations to run aquatic plant removal programs with divers.

Citizen Scientist Recognized

Lake advocate and plant removal pioneer Dennis Spinney, of West Pond in Parsonsfield, Maine, accepted Down East Magazine's 2016 Environmental Award on behalf of all Maine volunteers working to prevent and control invasive aquatic plants. See <http://downeast.com/the-weed-wackers/> for the article about Dennis and his pet bass, Buddy.

MASSACHUSETTS

Marc Bellaud

SOLitude Lake Management

The Massachusetts Department of Conservation and Recreation continues to lead statewide efforts to prevent new infestations and control existing infestations of aquatic invasive species. In 2016, MADCR will provide funding for numerous ongoing management projects that target control of water chestnut, Eurasian watermilfoil, variable watermilfoil, fanwort, spiny naiad, Phragmites and several other spe-

cies. MADCR is also actively involved with water quality remediation projects targeting phosphorus removal to prevent potentially toxic blooms of cyanobacteria.

Educational and outreach efforts are also planned at local, state and regional conferences and with individual lake associations. MADCR is also concerned with identifying new or pioneer infestations of aquatic invasive species and will continue to work closely with the Northeast Aquatic Nuisance Species (NEANS) Panel to accurately identify and track new invaders in all state waterbodies.

NEW HAMPSHIRE

Amy P. Smagula

New Hampshire Department of Environmental Services

New Hampshire is looking to emulate Vermont with a ban on the transport of all aquatic plants, rather than just state listed prohibited plants like what is on the books right now for law. HB 1589 seeks to do this, and to mandate that transient boaters clean and drain their gear between waterbodies. The bill passed the House this winter, and it is now being heard before the Senate. The bill does include a fine schedule ranging from \$50-\$250 for a violation level of offense for those found to be transporting aquatic plants on their boats, trailers or other recreational gear.

A new potentially invasive plant was observed in New Hampshire in fall 2015, and observed to emerge and grow rapidly this spring. The plant is *Oenanthe javanica*, commonly referred to as java water droplet or water celery, and it was

found in a small stream in Sutton, New Hampshire, near Kezar Lake. The plant was likely introduced by a local resident years back as an herb, and it just recently began moving in the stream channel. It is an emergent plant that looks a bit like *Sium suave*, and it seems to favor small streams and wetland habitats. Plans are underway for containment and eradication. The plant is not state listed in NH or neighboring states in New England, but it is recognized as an invasive in Wisconsin and Virginia where management is being done. The Sutton stream flows into an extensive wetland complex, so we're hopeful that containment can prevent it from moving into the wetland where management would be much harder to achieve.

NEW JERSEY

Chris Doyle

SOLitude Lake Management

Following a very warm winter in which Rutgers Climatology data reported a December 2015 average monthly temperature exceeding 12 °F for the typical December month, we expect early and robust plant growth in the Garden State this spring. This is quite a change compared to the previous two extremely cold winters.

New Jersey Coalition of Lake Associations (NJCOLA)

The NJCOLA continues to move forward with increased membership contact, outreach and education with additional annual meetings. In March, a local analytical laboratory discussed capabilities and services as the NJCOLA ex-

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plores the possibility of implementing a volunteer-driven water quality program for its members. NJCOLA is examining the New York Federation of Lake Associations program (CSLAP) as a basis for such a program.

New Jersey Invasive Species Strike Team (NJISST)

The NJISST hosted its 4th annual conference in early April in central New Jersey. Over 100 participants from a wide variety of disciplines attended the all-day conference. Presentations included a review of the state of emerging invasive species in New Jersey, invasive species spotlights, successful deer management regarding invasive species, updates on New Jersey State invasive species policies, and workshops demonstrating herbicide application techniques, and how to use the new web-based App for logging NJ invasive species occurrences and tracking eradication projects. A featured presentation detailed a campaign to reduce the sale of invasive species in the Garden State. Although in its infancy, this program seeks to educate sellers and offer incentives to stock and sell desirable native species, as opposed to employing aggressive bans on the sale of invasive species. In 2017, the NJISST will officially become part of the New Jersey Audubon Society, in an effort to reduce overall operating costs of the strike team, and strengthen the team's policy arm regarding NJ regulations. This partnership should have many benefits for both organizations.

NEW YORK

James Balyszak

Cayuga Program Manager

Scott Kishbaugh

New York Department of Environmental Conservation

Cayuga Project

The Hydrilla Task Force of the Cayuga Lake Watershed (HTF), in conjunction with NYSDEC, national peer reviewers, and Project consultants, conducted the annual peer review process. Reviewers/consultants provide direct input to the HTF on available hydrilla management options for the 2016 season. Through input and assessment, the HTF was able to determine the most appropriate management strategies for the upcoming 2016 treatment season.

Based upon input, plant community monitoring, and hydrilla tuber observations from 2015, the HTF is looking to scale back treatments within the Cayuga Lake Watershed in 2016. Herbicide treatments will still provide coverage to the Cayuga Inlet and Fall Creek treatment zones, but overall herbicide

input to these systems will be reduced. Based upon the extensive plant community and hydrilla tuber monitoring conducted in 2015, the HTF observed only trace amounts of hydrilla growth and tuber presence in Cayuga Inlet. Ongoing progress in significantly reducing hydrilla tuber populations in Cayuga Inlet and Fall Creek continues to be observed.

The HTF is currently conducting a RFP and procurement process for 2016 hydrilla treatments. Solicitation for proposals has been submitted, and the HTF and stakeholders will review and approve proposals once received. Once approved, a formal contracting process for 2016 contracted services will take place.

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Lake Aeration

CONSULTATION & CUSTOM DESIGN





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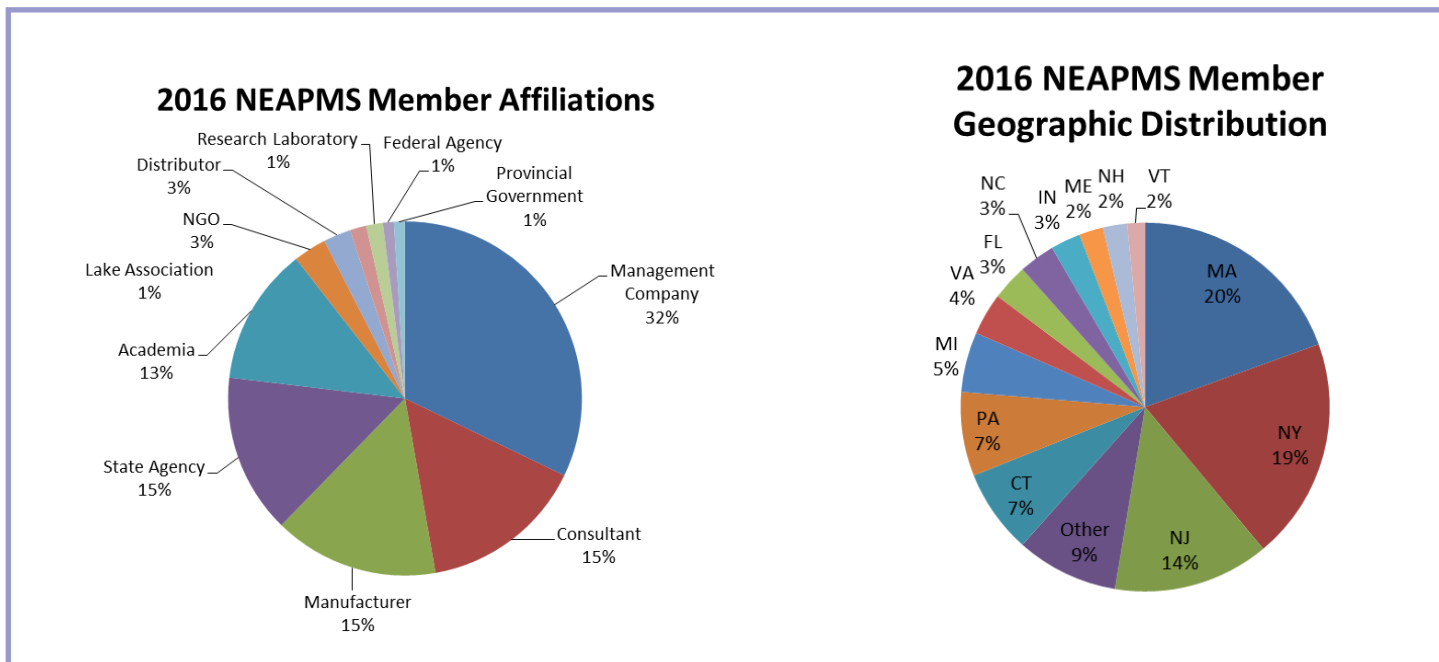
NEAPMS 17th ANNUAL MEETING, Saratoga Springs, New York



MEMBERSHIP

Amy Smagula, New Hampshire Department of Environmental Services

NEAPMS Secretary



17th ANNUAL MEETING SILENT AUCTION

Denise Blanchette

Maine Department of Environmental Protection

Thanks to some great items that spurred active bidding, with just 19 items in our 2016 silent auction, \$1,251 was raised for the scholarship fund! Applied Biochemists provided us with the camp folding chair that generated the most bidding action. It was a close first and second bid for the items that brought in the highest bid amounts between Bin Zhu with the Garmin eTrex and Crop Production Services' Northstar Spray system and Maine Gift Basket – who wouldn't want a pair of genuine moose antlers and a lobster dinner! However we can't ignore the amount raised by Syngenta's donated high end sunglasses and Burden Aquatics Nutribullet. Thank you to all that donated and bid on items.

We are hoping that next year we can top the 2014 silent auction that raised almost \$3,000 with 32 items. Want to help inspire next year's most active bidding or the item that brings in the

highest bid? Ask yourself:

What restaurants do you frequent? Could you get a gift certificate? Can you combine a gift certificate with wine or other items to make a basket?

Are you a subscriber to, or on the board of, a local entertainment venue? Could you get tickets... behind-the-scenes tour... a performance?

So you have season tickets? Could you offer up one or more pair? Could you get something special, like an autographed ball?

Do you have any vintage or special wines you'd be willing to donate? Do you frequently buy from a vintner who might donate a case?

What special equipment or tech do you have? Do you know someone else that can offer services or



equipment?

What access do you have to special experiences? Do you run a farm? Make homebrew? Know a lobsterman or a hunter that may donate some yummy items?

All proceeds from the Silent Auction go straight to the Scholarship Fund.

Questions? Contact John McPhedran at john.mcphedran@maine.gov

That same process will be conducted for contracted plant community and water quality monitoring services for 2016.

With contracts in place, the HTF (with direct assistance from Tompkins County Soil and Water Conservation District) will finalize and submit applications for the required NYSDEC permits for herbicide applications in 2016.

Anticipated treatment window for 2016 ranges from mid/late June, and extends through mid/late September. Treatments will utilize the contact herbicide endothall (in Fall Creek), and the low-dose systemic herbicide fluridone (in Cayuga Inlet and Fall Creek).

Other Items

NYSDEC continues to work with NYCDEP and other partners to address the hydrilla infestation in the Croton River system. NYCDEP plans to use benthic barriers to manage the hydrilla near the boat launching site in New Croton Reservoir, and NYSDEC is working toward a potential 2016 limited herbicide treatment of Croton River. Hydrilla beds in the Croton River appeared to expand in 2015. No direct management of the sparse infestation is planned for Croton Bay, and detailed surveys of the Hudson River near the confluence with the Croton River did not find any additional hydrilla. Responsibilities for overseeing the initial response has been assumed by NYSDEC.

Aquatic plant ID workshop and volunteer recruitment efforts continue for the Adirondack Park Invasive Plant Program, Finger Lakes PRISM, and other programs within

New York, with a continuing focus on hydrilla and other potential new invaders to a region.

An extensive fanwort track down program is being initiated by the St. Lawrence-Lake Ontario PRISM to determine if this plant is approaching Oneida Lake, based on some movement of the plant out of upstream Kasoag Lake

The NY Federation of Lake Associations is developing a simple shoreline AIS surveillance protocol in collaboration with a number of partners, to improve opportunities for early detection of several key AIS species.

PENNSYLVANIA

Brian S. Pilarcik

Crawford County Conservation District

The Pennsylvania Invasive Species Council is currently actively organizing around hydrilla through a sub-committee of the larger group. PISC, under the direction of Pennsylvania Department of Agriculture, is following up on reports of hydrilla around the Commonwealth. PDA aims to confirm or deny reported infestations in an effort to get a better idea of the scope of infestation in Pennsylvania. If you think you have sighted hydrilla in a Pennsylvania waterway please report it to the Pennsylvania invasive species reporting line at 1-877-464-9333. Please include a close up picture and detailed location information with your report. Currently there are 11 Pennsylvania waterways with hydrilla confirmed present.”

RHODE ISLAND

Katie DeGoosh-DiMarzio

Rhode Island Department of Environmental Management

No update this issue.

VERMONT

Ann Bove

Vermont Department of Environmental Conservation

In late August 2015, Program staff confirmed the presence of *Nitellopsis obtusa* (starry stonewort) in an approximately 24-acre cove of 5,966-acre Lake Memphremagog in northern Vermont. Dense mats a meter or more thick were found in 50-75% of the cove but not outside of the cove in the main lake. This is the first confirmed population of this species in a Vermont waterbody. Under the Vermont Use of Public Waters Rules – Subsection 4.1., a temporary closure was sought and authorized for Scotts Cove. The requested closure of the cove to both persons and vessels represents an attempt to contain and minimize further spread of starry stonewort while additional surveys of the main lake can be conducted to determine if the species exists outside of Scotts Cove and to give further consideration to management options for the Scotts Cove population. Scotts Cove is somewhat isolated from the main lake due to a well-established beaver dam and stand of the emergent *Phragmites*.

State of Vermont fees are reviewed on a three-year cycle. In 2016, the Agency of Transportation proposed an increase in motorboat registration fees across all classes or motor-

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GETTING TO KNOW YOUR NEAPMS BOARD OF DIRECTORS



Chris Doyle, President - term ends January 2017

Chris graduated from Cook College, Rutgers University with a B.S. in Natural Resource Management. Since graduating, he has over 20 years experience as an aquatic biologist, with a focus on invertebrate, algal and aquatic macrophyte taxonomy and is a Certified Lake Manager. Currently Chris works for SOLitude Lake Management, overseeing the water quality and biology programs for several offices along the East Coast.

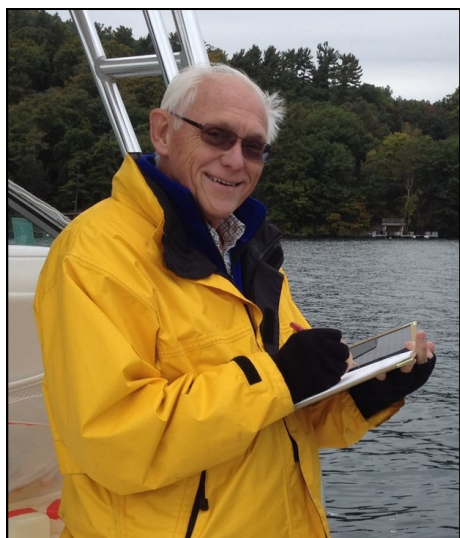
Chris has served on the NEAPMS Board, been Editor and taken an active role in the organization of the aquatic plant workshops. In 2014 he was invited to sit on the New Jersey Invasive Species Strike Team Technical Advisory Board (aquatic plants), and is an active partner with the Lower Hudson Partnership for Regional Invasive Species Management (LH PRISM).

Chris is proud to be a lifelong New Jersey resident. Chris is a published freelance fiction author, an avid tabletop board game aficionado, a rabid sports fan, and is active in the local 4H Association. He resides in central New Jersey with his wife of 20+ years, Lisa, son Alec, and two recently adopted cats.



Mark Heilman Ph.D., Vice President/President Elec - term ends January 2017

Mark is currently President Elect of the NEAPMS and has been active with the society since 2001. As Senior Aquatic Technology Leader for SePRO Corporation, Mark leads SePRO's research and development efforts to bring forward new technologies for managing water resources. He also directly assists many public and private natural resource managers in the US and some international colleagues with challenging projects managing aquatic invasive species with an emphasis on aquatic plants. He received his Ph.D. in Aquatic Ecology from the University of Notre Dame in 1992 where he was a NASA Global Change Research Fellow for his work examining changes in methane cycling associated with submersed aquatic plants. He received the NEAPMS Aquatic Plant Science Award in 2011 and the APMS Outstanding Research and Technical Contributor Award in 2013. When not diving to look for submersed plants, throwing weed rakes, or pounding away on the computer, Mark enjoys hiking, golf, watching college football and basketball, and just generally chasing his kids around.



Chuck Boylen Ph.D., Past President 2016 - term ends January 2017

Chuck is Professor Emeritus of Biological Sciences at Rensselaer Polytechnic Institute. He has spent most of his academic and scientific career at RPI where he has maintained an active limnological research program. Serving as both Director and Associate Director of RPI's Darrin Fresh Water Institute at Lake George, he has provided students and researchers with opportunities to study the environmental state of numerous lakes, ponded waters and streams in up-state New York. Under his direction and that of close colleagues, the DFWI has become an important environmental research center in the Northeast. His research results have been applied to community and policy issues relating the impact of human activities on water quality. Much of Chuck's research efforts have related to the ecology and management of invasive aquatic species including Eurasian watermilfoil in Lake George and water chestnut in the Hudson River. He has been a principal investigator and collaborator on a long-term study of acid deposition on Adirondack lakes, ponds and streams and their biota.

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Will Stevenson, Treasurer - term ends January 2018

Will is the current Treasurer of NEAPMS overseeing the Society's finances and spending. Currently he is the Director of Business Development at SOLitude Lake Management. His primary focus at SOLitude is integration best practices across all of the divisions and bringing internal experts in various disciplines to leadership positions in the company. Prior to working with SOLitude he was the president of Lycott Environmental Inc. He holds a B.S. in Civil Engineering from Union College, a Masters of Environmental Management from the Yale School of Forestry and an MBA from Babson College. He enjoys fly fishing and photography in his limited spare time due to three sons' various activities.



Amy Smagula, Secretary - term ends January 2018

Amy is a limnologist and the Exotic Species Program Coordinator at the New Hampshire Department of Environmental Services. Amy has undergraduate and graduate degrees in Environmental Science and Water Resources Management from the University of New Hampshire. For NEAPMS, she has served on the Board of Directors since the Society's inception back in 1999, serving as Secretary for most of those years, with a rotation through President-Elect, President and Past-President. In her spare time she enjoys hiking in the White Mountains of New Hampshire, mountain biking and ice fishing. Having just completed hikes of the NH 48 four-thousand footers, her next adventure is working on redlining the trails in the White Mountain AMC guide.



Ann Bove, Editor - term ends January 2017

Ann is an aquatic biologist with the Vermont Department of Environmental Conservation where she coordinates Vermont's Aquatic Invasive Species Program, assisting the public and natural resource partners identify and manage aquatic plants, and prevent the spread of invasive aquatic species. She has B.S. degrees in Plant and Soil Science and Botany from the University of Vermont. Her experience managing aquatic plants spans 30 years. Ann has served as NEAPMS President, Editor and on the Board of Directors. In 2009, she received the NEAPMS Outstanding Member Award. Ann lives in the foot hills of Vermont's Green Mountains within the Lake Champlain Basin where she and her husband manage a small farm and tap maple trees to make maple syrup. When not in or on the water, Ann is an avid gardener and back country skiing enthusiast.



Mark Lawandowski, Director - term ends January 2019

Mark is a Natural Resources Biologist for the Maryland Department of Natural Resources in Annapolis, Maryland. He has a B.S. from the University of Maryland, College Park, and has worked in SAV restoration and invasive species control for 15 years. Since 2001, Mark has coordinated ongoing volunteer efforts to manually remove water chestnut from tributaries in the Chesapeake. He is the program lead on the Deep Creek Lake Hydrilla control project and has created a launch steward program coupled with an outreach campaign to educate boaters to properly clean their vessels. Mark is an active member of the Mid-Atlantic Panel on Invasive Species, the Maryland Invasive Species Council and represents the Chesapeake Bay region to the Aquatic Nuisance Species Task Force. He has been a member of APMS since 2006, and a chapter member since 2013. When Mark is not actively killing AIS, he spends his time playing poker, gardening and kayaking with his kids.



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Jacob Meganck, Director - term ends January 2018

Jacob is the Territory Manager for UPI in the Northeast and Midwest. He has over 11 years in the aquatics industry and has been actively involved in NEAPMS for the last 5 years. Jacob has been active in the APMS chapters since 2005, and previously served as President of the MAPMS chapter from 2015 to 2016.



Meg Modley, Director - term ends January 2017

As the Aquatic Invasive Species Management Coordinator for the Lake Champlain Basin Program, Meg works to coordinate management efforts to prevent the introduction and spread of aquatic invasive species (AIS) in the basin. She has worked for LCBP since 2003. Meg has a B.A. in Environmental Studies and Geology and a M.A. in Public Administration from the University of Vermont. Her work has included the development of a Lake Champlain Basin Aquatic Invasive Species Rapid Response Action Plan, implementing the Lake Champlain Basin Aquatic Nuisance Species Management Plan, supervising the Lake Champlain Boat Launch Steward Program, and working with local and regional partners on education and outreach campaigns for AIS. She is a member of the National ANS Task Force, Northeast Aquatic Nuisance Species Panel, and the Northeast Aquatic Plant Management Society Board of Directors. Meg grew up vacationing on Lake George every summer, has a great love for the outdoors and fieldwork, volunteers as an EMT, and lives in Burlington with her husband, son, and her dog Osa.



Eric Paul, Director - term ends January 2017

Eric works with the New York State Department of Environmental Conservation at the Rome Field Station where he leads the activities of the Aquatic Toxicant Research Unit. His responsibilities include conducting research projects on the toxicity of pesticides to fish, amphibians, and other aquatic life. Eric has conducted a large number of studies on potential non-target impacts of aquatic herbicides.



Joe Pinkerton, Director - term ends January 2018

Joe is an Aquatic Biologist/Aeration Specialist for Aquatic Environment Consultants, Inc. in Scotland, Pennsylvania. He first gained experience in the aquatics field as an intern for AEC while earning a B.S. degree from Shipensburg University. Upon graduation, Joe became a full-time employee and now has over 15 years of experience managing ponds and lakes throughout Pennsylvania, Maryland and Virginia, and is a licensed pesticide applicator in these three states. He enjoys travelling with his wife; watching his two sons play soccer and football; coaching soccer; hunting; fishing; home brewing; and watching and attending NFL football games.

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Glenn Sullivan, Director - term ends January 2019

Glenn is a Certified Lake Manager and Business Development Specialist at SOLitude Lake Management. Glenn has worked in the aquatics industry since 1993 and was President of Allied Biological in New Jersey from 2004 to 2014. Glenn continues to focus his time and energy on developing new and larger projects in SOLitude’s New Jersey and New York offices. Glenn’s field experience has led to expertise in aquatic and wetland plant control, aeration system design, nutrient inactivation measures, littoral zone re-vegetation and water quality improvement. Glenn proudly attended Rutgers, The State University of New Jersey, and earned a B.S. degree in Environmental Studies in 1987. When not working, Glenn is home with his wife Alison, and their teenage children Maggie and Will. The family loves to boat and ski, and whenever possible, Glenn can be found in the Adirondack Mountains.

Chris Borek, Director/Web Administrator - term ends January 2017

Chris is a Rutgers University – Cook College graduate in Environmental Science/Natural Resource Management. After a brief stint as a middle and high school science teacher in the early ‘90s he took a job as a field biologist with Coastal Environmental Services in Princeton, New Jersey. Over the next decade he evolved a comprehensive background in water resource protection and restoration through hands-on involvement in hundreds of pond, lake and reservoir projects from Florida to Massachusetts. While primarily focused on the management of aquatic plants and algae, Chris also played a key role in the design and implementation of: water quality monitoring/sampling projects, hypolimnetic and destratification aeration systems, alum injection systems, fish and benthos sampling efforts, dredging projects, and biomanipulation initiatives.



In 2006 Chris made the decision to step outside the lake management/consulting field and focus on New Jersey’s demanding, local pond market and growing need for invasive species management. After 10 challenging seasons, Black Lagoon Pond Management & Invasives Control has proven to be a successful endeavor.

Chris has been a member of NEAPMS since its inception in 1999, currently serving his second term on the Board of Directors as Web Administrator.

Chris remains a lifelong resident of Yardville, New Jersey with his wife and son, Karen and Drew.

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NEAPMS 18th ANNUAL MEETING

January 9-11, 2017

Wentworth by the Sea on the Isle of New Castle
Portsmouth, New Hampshire

**Mark your calendars and plan to join us for
our annual meeting!**

**For details and registration, visit [www.neapms.org/
conference/](http://www.neapms.org/conference/)**

Do you have 18th Annual meeting presentation topics? Send your ideas to Amy Smagula at amy.smagula@des.nh.gov



WIN MAPLE SYRUP?

Can you identify this plant?

Genus *and* species name a must. Send your entry by **July 4th, 2016** to ann.bove@vermont.gov for a chance to win a quart of organic 2016 Vermont maple syrup — delivered¹! (Don't forget to include a mailing address.)

¹ U.S. only

Vermont State Update continued

boats, an elimination of all surcharge fees for every boat class and dealer registration, and changes to the fee allocation structure. Currently VTDEC receives 25% of revenues to support aquatic invasive and nuisance species control, including grants to municipalities, and all of the surcharges to support grants to municipalities, per legislation. With the current fee structure, total revenues to VTDEC average \$400,000 per year. The fee increase was authorized by the Legislature and will take effect July 1. VTDEC's annual revenues to support aquatic invasive and nuisance species control are estimated to increase by roughly \$45,000.

In 2016, program staff will continue to spearhead the management of *Trapa natans* (water chestnut) in over 88 Lake Champlain miles representing both Vermont and New York shores and in 29 other inland Vermont water bodies. This \$919,000+ annual effort involves program staff oversight, management and survey time; contracts for mechanical and hand harvest; access, spoils dewatering and compost agreements; hand harvest partner grants; and the support of many partners.

A repeal of Vermont's felt-soled wader ban will occur on July 1. The Vermont Agency of Natural Resources supported the repeal, citing the changing science of *Didymo* and public safety concerns. Vermont is the first state to repeal a felt ban.

In conjunction with the Lake Champlain Basin Program, VTDEC will be overseeing the operation of four hot-water, high pressure watercraft decontamination units in 2016. An additional three will also be operating in Vermont under the direction of local municipalities with technical support from VTDEC staff. More information on the program can be found [on this blog post](#).



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Look for more detailed state updates in the Fall 2016 issue of Nor'Easter.