



NOR' EASTER

The Newsletter of the Northeast Aquatic Plant Management Society

Vol. 3, No. 2

Fall - Winter 2004

President's Message *Bo Burns*

Well, the end of the year is here, and it is time to start thinking about planning to attend our annual meeting. As president of the Northeast Aquatic Plant Management Society, I would like to ask all members to seek out ways to become more active within our organization. This year's meeting will take place January 17, 18, and 19, 2005 and it is not too late to become involved. There are many ways individuals, companies, and agencies can become active in our society.

To keep this society interesting and current we are always looking for information or articles to put in the newsletter, the "NOR'EASTER". If you have any information that you feel would benefit others to hear about, please pass it on to our editor, Bob Johnson. We have several committees you can sign up to assist. If you are interested in serving on a committee, please inform our registration desk at our annual meeting. Each year we put out a call for papers and offer everyone the opportunity to present information to the society. It is one of our goals to keep this society as diverse and integrated as possible, therefore, if you have any information regarding the management of our water bodies, pass it on to us. We also have the opportunity for people to advertise in our newsletter, become a sponsor, and exhibitor at our meeting. If you are interested in sponsoring and/or exhibiting, please contact Jerry Lewis of UAP Timberland or Joann Dunlap of Cygnet Enterprises. Most importantly, I am asking for your attendance at our annual meeting!!

As my term ends, I truly want to thank all the people who have worked so hard to make this one of the best societies I have ever been involved with. We really have a top notch organization and to keep it going we need to encourage everyone to become involved. It is not uncommon to have the same people do every-

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thing for a society, so before we allow those individuals to burn out, let's all offer a helping hand to keep this an exciting and educating society. Your board of directors is working hard to find ways to get more students and academia involved with our society. We will be offering a student paper contest this year and have a poster session planned. It is time we start looking hard at potential candidates for our student scholarship with the hope to keep these individuals involved within aquatic plant management for years to come.

To close, I want to wish everyone the happiest of holidays and look forward to seeing everyone in January at the Gideon Putman Hotel in Saratoga Springs, NY.

Sincerely, Bo Burns President NEAPMS

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European Frogbit (frog's-bit, *Hydrocharis morsus-ranae* L.)

6th Annual NEAPMS Conference “SEND IN REGISTRATION TODAY!!!”

The Gideon Putnam, in Saratoga Springs, NY, will be our home again for the 2005 conference on January 18th and 19th, with an opening reception the evening of January 17th.

We invite you to attend the Sixth Annual Conference of the NORTHEAST AQUATIC PLANT MANAGEMENT SOCIETY. As usual, a full program of informative papers and presentations on aquatic plant management issues has been assembled. Several exhibitors will be present to better acquaint you with their products and services. Recertification credits will be available for a number of Northeastern states for Certified Applicators. A Social Hour and Dinner will follow the Society’s business meeting on Tuesday afternoon.



Your conference registration fee includes the full two-day program, two lunches, the Social Hour, and Dinner. Your lodging at the Gideon Putnam Hotel includes continental breakfast for both days. Due to the popularity of this event from 2004, BASF is again sponsoring the Monday night social event. Please plan to join us on Monday night from 7:00 – 9:00pm in the Arches Room at the Gideon Putnam for a light buffet, cash bar, and some fun activities!

MAKE HOTEL RESERVATIONS TODAY!!

To receive conference rate make reservations by Dec. 17th.

1-800-732-1560

<http://www.gideonputnam.com>

Conference Registration Fees: includes the cost of Society membership

(Late fee of \$25 apply if registering after January 4, 2005)



The Gideon Putnam was a great venue, set in beautiful Saratoga Park. Those who cross-country skied during their stay saw geysers and a lot of great scenery. The inn is a grand building with historic charm.

Bring Your Skis for the big race!!

Program for the 6th Annual NEAPMS Conference

Monday, January 17th Arrival optional; program begins on January 18th. For those arriving on Monday, there will be a reception with a light buffet and cash bar at 7 PM, sponsored by BASF in the Arches Room at the Gideon Putnam Hotel. Come prepared to participate in the Applicators Challenge Relay (bring your cross-country ski equipment to challenge).

Tuesday, January 18th

- 8:15 - 9:30 AM **Continental Breakfast Buffet for Attendees**
Exhibits Area
- 8:15 - 9:45 AM **Registration/Exhibits**
- 9:45 – 10:00 AM **Welcome**
Ken Wagner, Program Chair, and Bo Burns, NEAPMS President
- 10:00 – 11:00 AM **Panel Discussion- Using Volunteers to Gather Plant Data Useful for Statewide Management**
Panelists TBA
- 11:00 – 11:30 AM **Volunteer Effort at Lower Suncook Lake, NH, to Track 2,4-D Treatment Results**
E. Neister, Lower Suncook Lake Association, Barnstead, NH
- 11:30 AM – Noon **Effective Aquatic Plant Monitoring: Data and Issues from Waneta Lake**
P. Lord and R. Johnson, Cornell Univ., Ithaca, NY, with Ken Wagner, ENSR, Willington, CT
- Noon – 1:00 PM **Lunch**
- 1:00 – 1:30 PM **Industry Updates and APMS Updates**
- 1:30 – 2:00 PM **Identification of Invasive Species using Remote Sensing and Hyperspectral Imagery** C. Love, Forest One, Inc., Jackson, MS
- 2:00 – 2:30 PM **Hyperspectral Imaging and Ground Truthing at Lake Rosalie, Florida**
A. Modjeski, ENSR, Piscataway, NJ
- 2:30 – 3:00 PM **Genetic Identification of Variable Milfoil: Issues for Invasive Plant Differentiation**
R. Thum, Cornell Univ., Ithaca, NY
- 3:00 -3:30 PM **Break/Exhibits**
- 3:30 – 4:00 PM **Invasive Plants: Present and Future**
C.B. Hellquist, MCLA, N. Adams, MA
- 4:00 – 4:45 PM **NEAPMS Business Meeting**
B. Burns, Presiding President
- 4:45 – 5:45 PM **Plant and Algae Workshop**
R. Johnson & Paul Lord, Cornell U, NY and K. Wagner, ENSR, CT
- 5:45 – 6:30 PM **Attitude Adjustment Time**
- 6:30 – 9:00 PM **Dinner and Festivities**
- 9:00 PM - ????

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For more information call Shaun Hyde, Northeast Aquatic Specialist at 860-651-5583.

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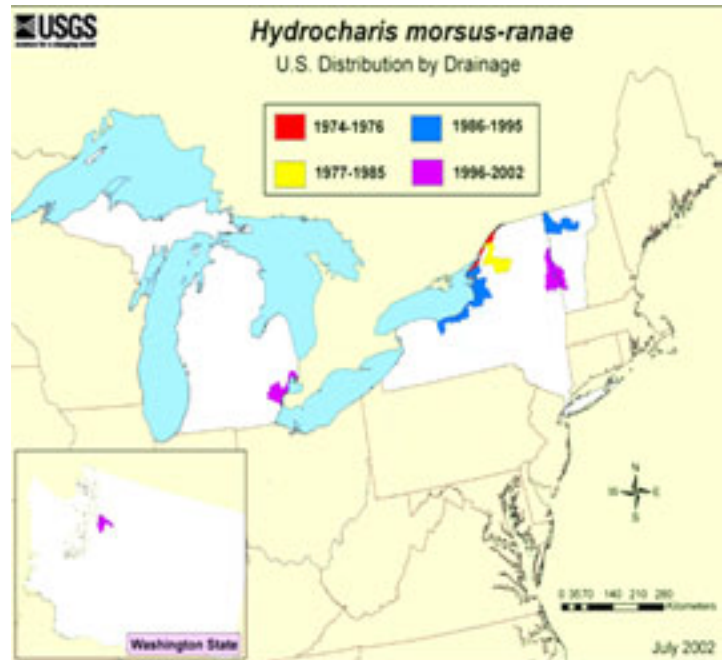
NORTHEAST'S NEWEST INVADERS – EUROPEAN FROGBIT

By Lawrence Eichler, Darrin Fresh Water Institute



The Northeastern US has a new aquatic plant invader on its' northern doorstep. European Frogbit, *Hydrocharis morsus-ranae* L., is a free-floating, pad-forming species, which grows in shallow, slow moving waters as dense tangled masses. It produces small white unisexual flowers present above the water surface. Sexual reproduction of this species appears to be limited, with propagation primarily vegetative through stolon growth and the production of overwintering buds (turions). Each plant is estimated to produce 100 to 150 turions in a single season. Dense floating mats of European Frogbit, their typical growth habit, have been shown to cause severe declines in the abundance of native submersed wetland plant species.

European Frogbit was imported intentionally from Switzerland in 1932 for introduction to the Arboretum of the Central Experimental Farm in Ottawa, Canada. It escaped from cultivation and was first reported in the Rideau River in 1939, the Ottawa River by 1952 and the Great Lakes by 1982. The earliest US record was in 1974 in the Oswegatchie River, which is a tributary to the St. Lawrence River in New York State. By 1993, European Frogbit had colonized the northern end of Lake Champlain in both New York and Vermont. In 2000, European Frogbit was reported for the first time in Michigan. In 2002, European Frogbit first appeared on the US West Coast in Washington State, most likely a separate introduction.



In the northeast, it is currently found in the eastern Great Lakes (Erie & Ontario), the St. Lawrence River, throughout Lake Champlain and numerous peripheral wetland areas. This species is likely to continue to follow the Champlain barge canal to its connection with the Hudson River and Erie Canal, further accelerating its movement toward the east coast of the US.

NH DES EXOTIC SPECIES PROGRAM – FOCUS ON VARIABLE MILFOIL

Amy P. Smagula, NH DES Exotic species program Coordinator & NEAPMS Pres. Elect

Variable Milfoil is the Focus of Intensified Scrutiny in New Hampshire

In fall 2004, New Hampshire will be the recipient of nearly \$1 Million of federal appropriations that were earmarked for re-research on variable milfoil (*Myriophyllum heterophyllum*). The New Hampshire Department of Environmental Services, Exotic Species Program (DES) will be implementing the grant program.



Variable milfoil is the number one problem for lake residents, visitors, and aquatic plant managers in New Hampshire. Spreading at a rate of 1-3 new water bodies each year, the plant is on the move, and taking over lakes at an alarming rate. Current management strategies are short-lived, and lake residents are becoming increasingly more frustrated with the problem.

Though DES recognizes that complete eradication of this plant is not a possibility, we do want to learn more about the plant, the habitats it invades, and possible control measures to provide longer-term control than we currently see. As a result, in winter 2003, DES sent out a request for conceptual proposals to re-research entities in NH and surrounding states to solicit proposals for work related to variable milfoil.

A total of 13 Conceptual Proposals were submitted to DES in spring 2004. After two rounds of reviews, including individual reviews by a committee of five, and personal presentations and interviews with the top eight candidates from the individual reviews, DES has selected six finalists for the grant funds. The following table summarizes the research projects, and lead researchers, for the milfoil grant awards.

Project Title	Lead Researchers
Evaluation of Seven Aquatic Herbicides for the Selective Control of Variable Milfoil	Dr. Kurt Getsinger and Dr. Mike Netherland, US ACOE, Waterways Experimental Station
Using Dispersal and Environmental Variables to Predict Milfoil Occurrence and Susceptibility to Invasion by Non-Native Milfoil in New Hampshire Lakes	Dr. Ryan Thum, Cornell University and Dr. Jay Lennon, Brown University
The Effects of Water and Sediment Chemistry, Sediment Physical Properties, Number and Size of Contiguous Wetlands, and Watershed Geology on Variable Milfoil Abundance or Presence/Absence	Dr. Ken Wagner and Ms. Wendy Corbin, ENSR International
Variable Milfoil Plant Replacement Project	Dr. Ken Wagner and Ms. Wendy Corbin, ENSR International
An Exploration of the Use of Parasitic Nematodes for the Biological Control of Variable Milfoil	Mr. Jeff Schloss, Dr. Garrett Crow, University of New Hampshire
Integration of Hydroacoustic and Water-Quality Related Assessments for Identifying Susceptible Areas for Variable Milfoil Establishment in New Hampshire Lakes	Jeff Deacon, Richard Kiah, and Jane Denny, U.S. Geological Survey

NH DES EXOTIC SPECIES PROGRAM – FOCUS ON VARIABLE MILFOIL

Amy P. Smagula, NH DES Exotic species program Coordinator & NEAPMS Pres. Elect

(continued) Research will focus on two key areas: Risk Assessment and Management/Control.

Three of the six projects will focus on examining various aspects of water quality data and sediments to determine commonalities between environmental and spatial data as they pertain to variable milfoil populations in New Hampshire and beyond. Some genetics work will also be involved in identifying milfoil species. With this information, DES hopes to be able to better predict the characteristics of lakes, ponds, and rivers that can support variable milfoil growth based on the results of the studies. In water bodies with the key characteristics, efforts at prevention and early detection of variable milfoil will be increased.

The remaining three projects will focus on various aspects of control, including herbicide bioassays, biological control, and plant replacement techniques. The goal here is to find herbicides and biological controls that are most effective on stemming variable milfoil growth in water bodies, while avoiding impacts to non-target species. It is hoped that if variable milfoil populations can be kept in check through the use of herbicides and biological controls (Integrated Pest Management practices), that native plants may have a better opportunity to grow in and limit the growth of variable milfoil.

For updates, stay tuned to future Nor'easter editions and NEAPMS conference agendas. All participating researchers are encouraged to attend a NEAPMS conference to present their findings.

For frequent updates and to learn more about the NH Exotic Species Program, please visit our website at www.des.state.nh.us/wmb/exoticspecies.

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Too Many Weeds Spoil the Fishing



Exotic invasive aquatic plants such as Hydrilla, Eurasian Water Milfoil, Curlyleaf Pondweed, Water Chestnut and Water Hyacinth can be detrimental to a healthy fishery in lakes across the country.

These invasive plants when left unmanaged can alter the ecosystem of lakes and reservoirs, causing a decline in the fishery, as well as interfering with other valued uses of waterbodies.

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SCHOLARSHIPS

The Northeast Aquatic Plant Management Society announces the availability of scholarship monies for students pursuing Masters or Doctoral level degrees in a subject area relating to **AQUATIC PLANT MANAGEMENT**. Scholarships can range up to \$2500.00 per year for two or three years (maximum), depending on the degree pursued. Candidates must be in good academic standing and provide a concise work plan that describes the project, goals, experimental design and proposed budget. A statement of how the project will enhance our knowledge and management of aquatic plants should be included. **Check out: www.neapms.org**

For more information contact: **Amy P. Smagula, NH DES**

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asmagula@des.state.nh.us 603-271-2248

— **Help wanted** —

FT position for person with degree in Limnology/Biology/Ecology or related field for small, but growing Lake and Wetland Management firm serving NY/NJ/PA. Combination of office and seasonal fieldwork, with emphasis on water quality programs. Must have good communication skills and research or professional experience with freshwater systems. Email letter, resume and salary requirements to glenn@alliedbiological.com

UPCOMING EVENTS – MARK YOUR CALENDERS!!!

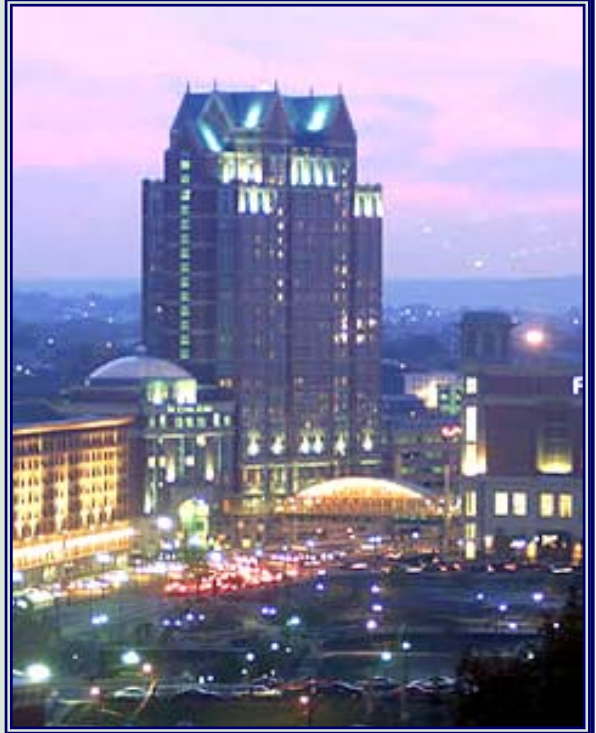
2006 NEWSS & NEAPMS JOINT MEETING

Preparations are being finalized between NEWSS (The Northeastern Weed Science Society), and NEAPMS for the 2006 Conference.

This joint conference will be the 60th Annual Meeting of the NEWSS and the 7th Annual Conference of the NEAPMS.

This conference will be held **January 3rd through the 6th in Providence, RI, at the Westin Hotel**. Make sure to save this date in your calendar! More information to come as it becomes available. For further inquiry about this event please contact Amy Smagula, president elect of NEAPMS.

<http://westinprovidence.com>



NYSFOLA 22nd Annual Meeting and Conference

This meeting and conference will be held, **April 30—May 2, 2005** at the White Eagle Conference Center in Hamilton, NY. Contact Nancy Mueller, NYS Federation of Lakes, 800-796-3652, foia@nysfola.org

ANNUAL MEETING

NEW ENGLAND CHAPTER OF NALMS (NEC NALMS)

WHEN: Friday and Saturday, June 3rd and 4th, 2005

WHERE: Plymouth State University, Plymouth, New Hampshire

Just 15 minutes from picturesque Squam Lake, this venue will provide an ideal location for lake lovers.

Watch the NEC NALMS website at www.nalms.org, and click on Chapters, and find the New England Chapter Link. More information will follow as we develop the program.

If you would like to submit a paper for the program, or have ideas or suggestions for the meeting, please contact Amy Smagula at 603-271-2248 or asmagula@des.state.nh.us

We're here to make sure you get the information you need (not to mention a little fun on a beautiful lake thrown in!)

MESSAGE FROM SCOTT KISHBAUGH

stipends for NEAPMS

"As part of its continuing campaign to promote the educational advancement of members and to 'extend and develop public understanding', NEAPMS strongly encourages the participation of regulators and other state agency staff in a cooperative effort to better manage aquatic plants in the region. The Society has greatly benefited from representatives from several state agencies since its inception, through active participation on the Board of Directors and at the annual conferences, and welcomes the opportunity for continuing discussion and interaction with regulators, technical advisors and other staff from these agencies at the ground level of aquatic plant management in their states.

To this end, the Society is pleased to offer a limited number of stipends to state agency staff interested in attending the upcoming NEAPMS conference in Saratoga Springs. These stipends may include registration, lodging, and meals, although recipients will be asked to become members of the Society. State agency staff are encouraged to coordinate requests internally to prioritize these requests. Those interested in receiving these stipends should contact NEAPMS through Glenn Sullivan (Treasurer) at glenn@alliedbiological.com by Dec. 15th. Once all of the requests for financial assistance have been received, recipients will be notified."

SePRO

A MESSAGE FROM SHAUN HYDE

May 5, 2004. SePRO Corporation enters into Exclusive Development and Supply Agreement with Dow AgroSciences LLC for the Development of a New Aquatic Herbicide. SePRO has code named this new developmental product SP-1019. The product use patterns would include selective invasive weed control in lakes, reservoirs, ponds, irrigation canals, rivers, marshes and wetlands. The new herbicide is the aquatic industry's newest advancement in aquatic plant management and is showing the promise to be the next generation Sonar*. SP-1019 was characterized for the public at the recent National Aquatic Plant Management Society (APMS) meeting in July. SP-1019 is on an accelerated developmental timeline and is currently being tested under an Experimental Use Permit issued by the U. S. Environmental Protection Agency (EPA).

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Mission Statement

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

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- Greg Bugbee—CT Agricultural Exp. Station
- Larry Eichler—Darrin Fresh Water Institute
- Jerry Lewis—UAP Timberland
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<http://www.neapms.org>



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Management Society**

Northeast Aquatic Plant Management Society

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