AQUATIC PLANT NEWS

A Newsletter of The Aquatic Plant Management Society, Inc.
P.O. Box 821265, Vicksburg, MS 39182-1265
Chetta Owens, Editor Issue Number 101 October 2012

Mission: *"The Aquatic Plant Management Society, Inc., strives to promote environmental stewardship through operations, research, education and outreach related to integrated management of vegetation in aquatic systems"*

President's Message – What Are We? What Will We Become?
President Terry L. Goldsby

Well, another annual meeting has passed; another season is nearly in the rear view mirror; and the end of 2012 is in sight. For the most part, those of us who are aquatic resource managers, administrators, and researchers seem to have survived this "first" year of additional regulation under the Clean Water Act. Though it hasn't been optimal, we have made the necessary adjustments. At both our Salt Lake City conference and the recent Midsouth APMS chapter meeting, I heard that a "legislative fix" might still be obtained. I believe most of us would welcome a repeal of this legislation (and hopefully it will still come), but I think we may have learned that we can continue to function despite the red tape and other obstacles. Not ideal, but sometimes you must adapt and overcome.

Now, to the crux of my message – "What are we? What will we become?" I think most of us know what we are, and I don't think any of us would disagree with the fact that we are the preeminent organization when it comes to investigating, developing, and disseminating technology and information regarding the management of aquatic plants. Our own mission statement is a bit more precise. You may find it at **www.apms.org**. But, in this day and age, is this enough? Should we be looking at a bigger picture?

It certainly seemed to me in Utah that a recurring theme was "What about all of the other invasive aquatic species? Is our scope and focus broad enough? Should we be about more than just plants?" Our president then, Tyler Koschnick, mentioned this idea in his opening address as it relates to research focus and funding, and Dr. Lars Anderson gave an interesting perspective in his talk entitled "An Ecosystem Services Approach to Management of Aquatic Invasive Species: Should APMS Take the Lead?" I heard others voice their opinions on this subject as well.

Obviously, many of us are interested in investigating and/or managing all types of aquatic pests. As a matter of fact, we are already required daily to make decisions based on the principles of "total system management". Rhetorically speaking, apple snails, zebra and quagga mussels, snakeheads, bighead, black, and silver carp, and Burmese pythons all rear their ugly heads routinely. These animals (and more) are on the news nearly every time I turn on the flat screen panel display device (previously called "the tube"), and my staff and I respond to questions about them regularly. *Should* APMS "take the lead" and begin moving toward a broader base and more encompassing perspective that includes these other invasive aquatic organisms?

At the recent Midsouth meeting in Mobile, I heard our own beloved Carlton Layne say in his inimitable style "the bucks are being spent on the critters, they are waaaay, waaaay sexier". And, I would *certainly* never doubt a thing *he* says. Would

you? So, since this is the gospel as spoken by Carlton, are we missing something? Is it time to reach out, expand, and grow?

I remember fairly well in the early 1970's, when it was being suggested that our organization change from the Hyacinth Control Society to the Aquatic Plant Management Society, there was skepticism, reticence, and doubt. Just as there was then, I know today that there are differing opinions on this subject, and there are those that disagree with the need. But, as scientists, we should all understand that change is inevitable. Robert F. Kennedy said, "*Few will have the greatness to bend history itself; but each of us can work to change a small portion of events, and in the total of all those acts will be written the history of this generation*". Working together, we will be shaping the future of our Society, whatever it may be.

Certainly, there is time to discuss these issues over the next nine months, so let your board know your thoughts. We want to hear from you about all of your ideas that might serve to make us a stronger, better Society. Hopefully, we can have productive discourse on a number of subjects between now and the time our 53rd annual meeting is held in San Antonio, Texas. I hope to see you there at the Westin Riverwalk – July 13-17, 2013. Please mark your calendars, and have a great rest of the year!

San Antonio, Texas Site of the 53rd APMS Annual Meeting

Mark your calendar July 14-17, 2013, to attend the 53rd Annual Meeting of the Aquatic Plant Management Society. The Westin Riverwalk Hotel will be our host for our annual conference. The Westin is one of San Antonio's most luxurious landmarks nestled on the city's famed River Walk. Stroll in the shade of cypress and palm trees just minutes away from the Alamo, La Villita historic village, and the San Antonio Convention Center. The Meeting Planning Committee is planning exciting and entertaining events for relaxing and visiting with friends and colleagues. The Program Committee promises a diverse and interesting program with excellent oral and poster presentations on aquatic plant research and management. In addition, useful information on available aquatic plant management products and professional services will be provided in the exhibits room throughout the meeting.

This will be a magnificent meeting, so plan to attend and bring your family as well. More information will be coming soon to the APMS website at www.apms.org and in future newsletters.

Have You Checked the APMS Member Directory Lately?

We need your help to update the mailing and E-mail addresses and phone numbers in our on-line Membership Directory. To do this, go to the APMS website at **www.apms.org** and click on "Member Directory." This member only feature can be accessed by typing:

Username = apms
Password = duckweed

Username and password are case sensitive (no caps).

APMS Promotional Information Available

The APMS has revised its two tabletop displays and posters, suitable for presentation at conferences and stakeholder meetings. Also available are tri-fold membership brochures and a newly completed eight-page color booklet with additional information about the APMS programs and initiatives. You may borrow the display for your next conference and obtain copies of the brochure

and booklet by contacting the APMS Secretary or President whose contact information is on the APMS website at **www.apms.org**.

Aquatic Plant Management Society is now on LinkedIn! John D. Madsen

The Aquatic Plant Management Society now has an online group through the social network LinkedIn, which is at http://www.linkedin.com. LinkedIn is a social network for professionals which emphasize developing a professional network of business colleagues. The APMS group has a discussion board, jobs board, and membership list. Opened by the Membership committee and moderated by the current chair, it is open to all individuals interested in aquatic plant management issues. So long as the discussions remain polite, all membership and postings will be open.

Of the more than 60 current members of this group, less than half are members of the national APMS. Our goal is to use this tool to encourage membership in the national and regional APMS and involvement at conferences.

To create an account on LinkedIn, go to http://www.linkedin.com or use the LinkedIn link under Social Networks on the APMS webpage. Once you have an account on LinkedIn, search for the Aquatic Plant Management Society group under the Groups Directory in LinkedIn.

Come join the discussion!

Aquatic Plant Management Society Blog:

The APMS Board of Directors recently approved the creation of a site (http://apms-blog.blogspot.com/) that aggregates aquatic plant management news items from around the country. I frequently receive e-mails from colleagues giving updates on various APM projects/issues, and thought it would be worthwhile to turn this process into a product that all of our membership can utilize to help better inform them on current APM issues at a regional and nationwide scale. Through a variety of search strings we plan to update this feature on a weekly basis and the site can be accessed via the APMS web page under the Social Networks Tab. At the present time Karen Brown (kpbrown@ufl.edu) is responsible for placing content on the site. Karen has a great background to lead this project and with numerous contacts throughout the country, I anticipate the quality of the blog will improve over time. The e-mail address for contributing news to the APMS blog is apmsblog@gmail.com

While the current format will initially emphasize searches for news articles, we will eventually look to expand and introduce some of our own original content (e.g. op/ed pieces, project updates, etc). I think many members will find this to be an interesting and valuable site as it will keep them up to date on APM as it is practiced, regulated, and viewed by the public around the country. If you look under blog archive, you can view all of the articles that have been generated for 2012.

If you have any questions, comments or suggestions for improvement please feel free to contact me.

Michael D. Netherland
APMS Vice President

New Student Representative Casey Williams

Hello from Texas,
As the new student member of the Board of Directors let me first start off by introducing

myself. I am currently a graduate student in aquatic resources at Texas State University in San Marcos, Texas where I have been working on *Hygrophila polysperma*. I also received my bachelor's degree from Texas State in aquatic biology. I have worked many jobs related to aquatic biology over the years, from glass bottomed boat captain at San Marcos Springs to hatchery technician in the Dominican Republic but I have only recently become involved in aquatic plant management and APMS as well as our state chapter TAPMS, over the last few years. I believe I have found my calling.

I am not new to representing national organizations. While in high school I was honored to represent the American Percheron Horse Association as their student representative. This allowed me to meet many interesting people and I am sure my student tenure with APMS will be the same. I am happy to represent our student members and look forward to working with our Board of Directors over the next several months to prepare for our conference in San Antonio as well as determine future goals for our organization.

Casey Williams

Student Field Trip-Salt Lake City
Rebecca Haynie

The South was well represented at the 2012 student tour with participants from Mississippi State, the University of Florida and the University of Georgia. Larry Dalton, the Utah Department of Natural Resources Nuisance Aquatic Species Coordinator, led our tour. The first stop was the Farmington Bay Waterfowl Management Area on the shore of Great Salt Lake. The 18,000-acre Farmington Bay WMA is part of the Western Hemispheric Shorebird Reserve Network. This reserve network is a premier birding destination and is a migratory stopover for more than 30 species and millions of individual shorebirds. We learned from the refuge manager about the water control structures and the unique plant and algae control issues they deal with on the management area. One of our Mississippi State students was able to grab some curlyleaf pondweed from the canal during the tour and educate our guides on this invader!

We also learned about the Great Salt Lake Ecosystem program, which under the Utah Division of Wildlife Resources is charged with monitoring, researching, and protecting *Artemia* in the Great Salt Lake. Our visit ended with a nature walk along one of the wetlands and a chance to view some of the management area's famous waterfowl and the occasional *Phragmites*-eating cow!

The students returned to Salt Lake City and recharged with a huge dinner and microbrews at the local Red Rock Brewery. We are looking forward to another great student tour next year in Texas. Thank you APMS and our society supporters!

Student Oral Presentation Winners:

1st Place: Shelley Robertson-University of Georgia
2nd Place: Sarah True Meadows-North Carolina State University
3rd Place: Justin Nawrocki-North Carolina State University

Student Poster Winners:

1st Place: Sarah True Meadows-North Carolina State University
2nd Place: Christine Rohal-Utah State University
3rd Place: Bradley Sartain-Mississippi State University

CONGRATULATIONS!!!!

AWARDS:

Honorary Membership Award: Dr. Lars Anderson, Mr. David Tarver
Max McCowen Friendship Award: Dr. Vernon Vandiver
T. Wayne Miller Distinguished Service Award: Dr. John Rodgers
Presidents Award: Mr. Don Doggett
Graduate Student Research Grant: Ryan Thum-Grand Valley State, MI
Best Technical Poster (non-student): Lauren Couter, Ian Couter and Tommy Garrison
Outstanding Journal of Aquatic Plant Management Article Award: James Johnson and Ray Newman, University of Minnesota
Exhibitor Excellence Award: BioSonics, Inc.

The Aquatic Plant Management Society – 1st Call for Papers

53rd Annual Meeting
San Antonio, Texas – July 13-17

This is a first notice to remind APMS members to consider submitting a title and abstract for the 53rd Annual Meeting of the Aquatic Plant Management Society to be held July 13-17th, 2013 at the Westin Riverwalk Hotel in San Antonio Texas. Presentations on all aspects of aquatic plant management, biology, and ecology will be considered. Oral presentations will be allotted a total of 15 or 20 minutes and a poster session is planned.

Specific information on electronic abstract submission will be available in the next Newsletter.

2013 MidSouth Aquatic Plant Management Society Scholarship Opportunity

The MSAPMS is seeking applications for the 2013 graduate student scholarship to be awarded at the 2013 annual meeting. We request that the successful applicant attend the meeting and give a presentation, if possible. One scholarship of $2,000 will be awarded to a qualified student applicant.

To apply, The Scholarship Committee should receive the following information before June 1, 2013:

1. A cover letter which includes the applicant's previous, current, and future relationship to the aquatic plant management industry, and a comment on the importance of the proposed research to aquatic plant management.

2. Copies of unofficial or official transcripts of undergraduate and any graduate work completed to date (these transcripts may be those issued directly to the student by the institution);

3. A letter from the student's major professor recommending the student for the scholarship, indicating that the student is currently enrolled and in good standing and has had their research proposal approved by their graduate advisory committee;

4. A copy of the approved graduate research proposal; and

5. One letter of recommendation, other than the major professor.

All submissions may be made with either hardcopy, addressed as below, or electronically via e-mail.

To enter an application or request more information, contact:

Dr. John D. Madsen
Mississippi State University
Geosystems Research Institute
Box 9627
Mississippi State, MS 39762-9627
Ph. 662-325-2428
E-mail. jmadsen@gri.msstate.edu

Hydrilla Discovered in Erie Canal in North Tonawanda-Highly Invasive Aquatic Plant Threatens New York's Waters

A U.S. Fish and Wildlife Service biologist recently discovered hydrilla, a highly invasive aquatic plant, in the Erie Canal in North Tonawanda, New York State Department of Environmental Conservation (DEC) announced today. Experts at a symposium on hydrilla in Syracuse last week confirmed the identification.

This latest discovery creates a very high threat of infestation in New York and beyond the state's borders through the Niagara River and the Erie Canal system by natural flow disbursal and to many more waters by recreational boating. Recreational boating is the highest risk vector for spreading this plant to other waters. DEC urges boaters to take steps to prevent the spread of this and other aquatic invasive species.

"DEC urges boaters, anglers and others enjoying New York's incredible and abundant water resources to help stop aquatic hitchhikers", said DEC Assistant Commissioner for Natural

Resources Kathy Moser. "Inspect boats and gear for any clinging plants, mud or tiny animals; remove them, and clean and dry all boats and gear. Use DEC's aquatic invasive species disposal stations, when available."

"Preventing the spread of hydrilla and other invasive plants and animals in the Great Lakes is a priority for the U.S. Fish and Wildlife Service. In response to the discovery of hydrilla in the Erie Canal, Service biologists are working with others to rapidly assess if it has spread in that area," said Jaime Geiger, Assistant Regional Director for the Service's Fisheries program in the northeast.

DEC is working closely with federal and state partners including the U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, New York State Canal Corporation, the Office of Parks and Recreation and the Western New York Partnership for Regional Invasive Species Management to determine the extent of the infestation and develop recommendations for rapid response.

Prior to the discovery in North Tonawanda, hydrilla was found in the Cayuga Inlet and small, isolated occurrences on Long Island and Orange County.

Hydrilla is considered to be among the most invasive aquatic plants in North America, and has resulted in significant ecological, recreational and economic impacts in other regions of the country. Its biological traits enable it to out-compete native species and dominate aquatic ecosystems due to its ability to grow in a variety of environmental settings and to propagate and spread from fragments, turions (overwintering buds) and tubers (reproductive structures attached to plant rhizomes).

For more information on preventing the spread of aquatic invasive species, visit DEC's website. New York Department of Environmental Conservation.

Weevils successfully destroy acres of lake-invading plants

http://phys.org/news/2012-09-weevils-successfully-acres-lake-invading.html

September 21, 2012 <http://phys.org/archive/21-09-2012/>

A weevil that feeds exclusively on giant salvinia has successfully destroyed about 150 acres of the invasive plant this summer on B.A. Steinhagen Lake near Woodville in East Texas, according to personnel involved in a statewide giant salvinia management program.

Researchers from the U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Texas A&M AgriLife Extension Service and Texas A&M AgriLife Research are working to control giant salvinia, a free-floating aquatic fern native to South America. The plant has invaded 17 Texas lakes and bodies of water in the southeastern U.S., according to Dr. Allen Knutson, AgriLife Extension entomologist in Dallas.

Knutson said the fast-growing plant forms dense mats, which interfere with water recreation, displace native vegetation and reduce oxygen content of the water, often harming fish and other aquatic life.

The Texas Parks and Wildlife Department's Aquatic Habitat Enhancement Program staff has released more than 112,000 adult weevils since 2010 from its Jasper rearing facility onto B.A. Steinhagen Lake.

Knutson, Dr. Abhishek Mukherjee and Dr. Kevin Heinz, Texas A&M University department of entomology, and Chris Moret, Texas Parks and Wildlife Department, studied the lake's weevil populations this year and in 2011.

"Late last winter, weevil numbers ranged between 20 and 30 weevils per kilogram of salvinia and are now up to 60 per kilogram, which is an excellent population," Mukherjee said. "Populations of this size cause more damage to the plant than it can overcome and are able to effectively control giant salvinia."

"Photos taken before and after weevil releases illustrate the tremendous job the weevils have done in controlling giant salvinia this year," said Floyd Boyett of the U.S. Army Corps of Engineers in Woodville. "We purposefully refrained from spraying this area to see what the weevils could do this year.

"Now, there is abundant open water, and what giant salvinia remains is contained within floating mats of grass or lotus along the shore," he said. "Weevils are in areas east and south of where they were released, indicating that the floating material must have carried the weevils a good distance and allowed them to establish."

Knutson said a similar effort aims to recreate these successful results at Caddo Lake in northeast Texas. Research there is being conducted at a weevil-rearing facility at the U.S. Fish and Wildlife Service's Caddo Lake National Wildlife Refuge through the Center for Invasive Species Eradication. The center is part of the Texas Water Resources Institute, AgriLife Research and AgriLife Extension and operated in collaboration with Texas Parks and Wildlife, U.S. Fish and Wildlife Service's Caddo Lake National Wildlife Refuge and the Caddo Lake Institute.

2013 APMS Officers, Directors, Committee Chairs and Special Representatives

Office	Name	Telephone	E-mail
President	Terry Goldsby	(256) 582-9101	terryg@aquaservicesinc.com
Immediate Past President	Tyler Koschnick	(440) 665-2748	tylerk@sepro.com
President Elect	Michael D. Netherland	(352) 392-0335	mdnether@ifas.ufl.edu
Vice President	Cody Gray	(954) 562-0254	cody.gray@uniphos.com
Treasurer	Sherry Whitaker	(601) 634-2990	Sherry.L.Whitaker@usace.army.mil
Editor	Rob Richardson	(919) 515-5653	rob_richardson@ncsu.edu
Secretary	Jeff Schardt	(850) 245-2815	Jeff.Schardt@MyFWC.com
Director	Craig Aguillard	(337) 290-1096	caguillard@landolakes.com.
Director	Michael Masser	(979) 845-7473	m-masser@tamu.edu
Director	David Issacs	(812) 497-2410	davidi@aquaticcontrol.com
Director	Larry McCord	(843) 761-4101	rlmccord@santeecooper.com
Director	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Director	Joe Vassios	(719)740-9291	joseph.vassios@uniphos.com
Student Representative	Casey Williams	(817) 598-8602	cw1107@gmail.com

Committee	Chair	Telephone	E-mail
Awards	Don Doggett	(239) 848-6774	doggett@lchcd.org
Bylaws and Resolutions	Jim Schmidt	(800) 558-5106; x305	jimschmidt@appliedbiochemists.com
Education and Outreach	Jeff Schardt	(850) 245-2815	Jeff.Schardt@MyFWC.com
Exhibits	LeeAnn Glomski	(972) 436-2215	leeann@laerf.org
Finance	John Gardner	(954) 977-7736	john.gardner@aquaticsystems.com
Legislative	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Meeting Planning	Tommy Bowen	(704) 875-5422	tommy.bowen@duke-energy.com
Membership	Joe Vassios	(719)740-9291	joseph.vassios@uniphos.com
Nominating	Tyler Koschnick	(440) 665-2748	tylerk@sepro.com
Past President's Advisory	Tyler Koschnick	(440) 665-2748	tylerk@sepro.com
Program	Michael D. Netherland	(352) 392-0335	mdnether@ifas.ufl.edu
Publications	Rob Richardson	(919) 515-5653	rob_richardson@ncsu.edu
Regional Chapters	Cody Gray	(954) 562-0254	cody.gray@uniphos.com
Scholastic Endowment	John Gardner	(954) 977-7736	john.gardner@aquaticsystems.com
Strategic Planning	John Rodgers, Jr.	(864) 656-0492	jrodger@clemson.edu
Student Affairs	Rebecca Haynie	(843) 991-8069	hayniers@uga.edu
Web Site	Ryan Wersal	(662) 325-4595	ryan.wersal@lonza.com

Special Representatives

AERF Representative	Carlton Layne	(678) 773-1364	layn1111@bellsouth.net
B.A.S.S. Representative	Gerald Adrian	(610) 594-1948	gerald.adrian@uniphos.com
C.A.S.T. Representative	Ryan Wersal	(662) 325-4595	ryan.wersal@lonza.com
N.A.L.M.S. Representative	Michael D. Netherland	(352) 392-0335	mdnether@ifas.ufl.edu
R.I.S.E. Representative	Joe Bondra	(810) 744-0540	joebondra@sbcglobal.net
W.S.S.A. Representative	Cody Gray	(719) 886 4708	cody.gray@uniphos.com
Director of Science Policy	Lee Van Wychen	(202) 746-4686	lee.vanwychen@wssa.net

WSSA UNDERGRADUATE RESEARCH AWARD – 2013

The Weed Science Society of America (WSSA) has developed an Undergraduate Student Research Grant designed to encourage and involve exceptional undergraduates in agricultural research. Interested faculty members are encouraged to identify potential award candidates and discuss the possibility of sponsoring a research project. Awards may be used as a stipend, for research budget expenses (travel, supplies, etc.), to defer fees, to defray living expenses for summer research, or any combination of these items.

AWARD: Up to $1000 for support of undergraduate research to be conducted over a minimum of one quarter/semester during 2013. This award may be used to defray the cost of research supplies or as a stipend. Support of a faculty sponsor is required. Awards will be made to the student, to be administered by the faculty sponsor's department.

APPLICANT: The applicant is an undergraduate student with a strong interest in Weed Science. Students majoring in all related disciplines may apply.

TO APPLY: Applicants should prepare a 2-3 page research proposal including name, address, phone number, E-mail address, title, objective, experimental approach, discussion, budget and references. The discussion section of the proposal should describe the expected results and their possible significance to Weed Science. The student should provide a cover letter in which general academic and career goals are discussed. A copy of the student's academic transcripts must also be provided.

FACULTY SPONSOR: Any faculty member who is actively engaged in Weed Science research is qualified to be a sponsor. The faculty sponsor should review the research proposal with special attention to the budget; the distribution of funds should be approved by both the student and sponsor. In addition, the sponsor should provide a letter of reference including a statement of his/her willingness to supervise the proposed research and to provide any needed space, equipment and supplies above those requested in the proposal. The sponsor is encouraged to assist the student in presenting his/her results at a regional Weed Science Meeting.

HOW TO APPLY: The completed proposal, academic transcripts, cover letter and faculty letter of support should be forwarded to: Dr. John Jachetta, Dow AgroSciences, 9330 Zionsville Road, Indianapolis, IN 46268-1054; Phone: (317) 337-4686, Fax (317) 337-4649, E-mail: jjjachetta@dow.com. Proposals should be received no later than November 16, 2012. Funding decisions will be made by January 25, 2013 and presented at the 2013 WSSA National Meeting Awards Ceremony.

ACKNOWLEDGEMENTS

Special thanks to LeeAnn Glomski for review, assistance and guidance on this newsletter!

Visit the APMS WEB SITE
www.apms.org

For members only features: username = apms
password = duckweed