

Midsouth Aquatic Plant Management Society

Newsletter

Volume 28 Number 1

January 2010

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Message from the President

Whether you're reading this from Arkansas, Florida, or somewhere in between, I feel pretty safe in saying that you've experienced your share of cold weather lately. The first 15 days of January 2010 were the coldest ever in Birmingham. Local ponds and even backwater areas of our larger reservoirs are just now thawing after being covered in ice for nearly two weeks. I just hope it kills off some water lettuce!

I would like to once again thank those of you who attended the 28th Annual Meeting at Lake Guntersville State Park. I hope everyone enjoyed the recently renovated facilities, great food, fellowship, and entertainment. I also hope you found the meeting informative. The Society would not be able to hold such a memorable event without the financial support of our sustaining members, corporate sponsors and exhibitors. I want to thank the Board of Directors for their help and support.

We also owe a debt of gratitude to John Madsen for his leadership as President in 2008-2009. John has volunteered for many years in MSAPMS and has contributed significantly to its success. Dr. Madsen was also responsible for organizing the Aquatic Plant Management Applicator Workshop which was a great success.

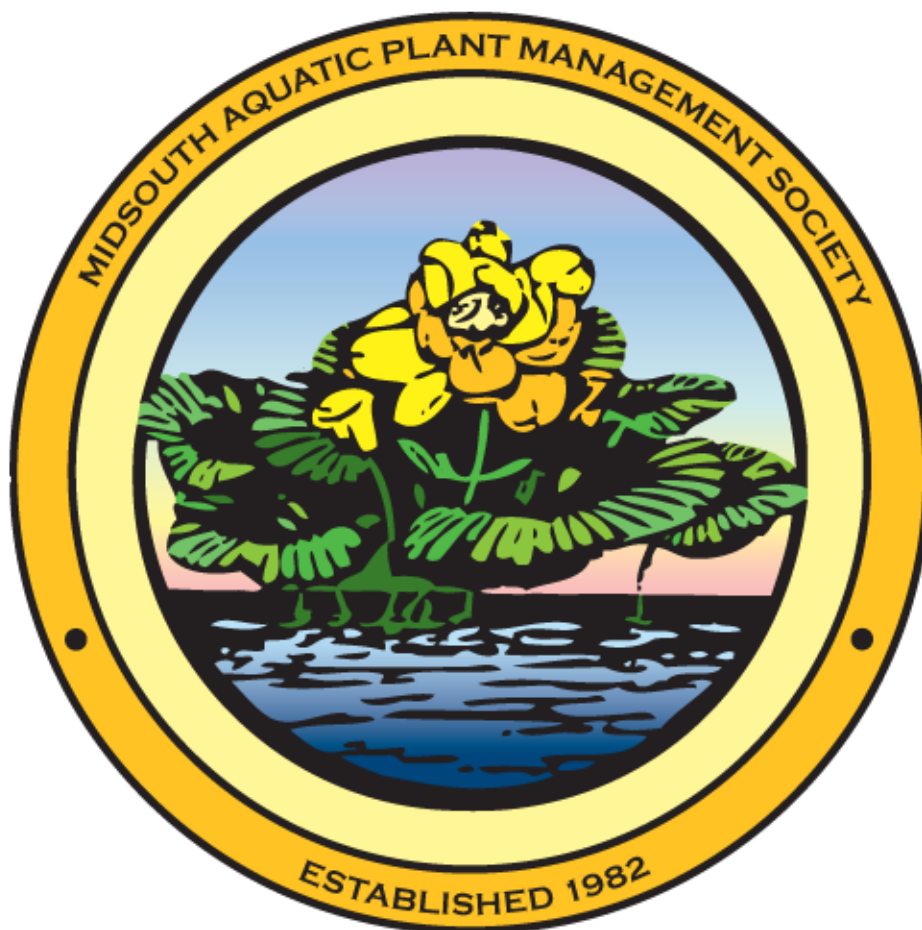
I would also like to thank those of you who responded to the Call to Action letter regarding the current EPA permitting process for aquatic pesticides. Our Society was able to provide valuable information that will be taken into account by the EPA as they develop a new nationwide permitting program. To remain a key regional organization for aquatic plant management and water resource issues, I feel that it's extremely important we take action on issues that directly impact our membership and our objectives.

In 2010, I encourage each of you to find ways to stay involved with this issue and others that will impact our industry and our nation. I am currently aware of at least two additional pieces of legislation that could directly impact aquatic vegetation management and water resources. These include the "Petition to Protect Children from Pesticide Drift" [EPA-HQ-OPP-2009-0825; FRL-8797-4] and the Clean Water Restoration Act / Oberstar Bill. It's still too early in the process to know how much of an impact the new permit system will have on aquatic plant management. However, if we're not willing to be part of the process, then we shouldn't get upset about the outcome.

As Program Chair for 2010, Harry Knight is already working on the arrangements for the next annual meeting. If you're interested in giving a presentation, be sure to respond quickly to the first call for papers. I'm sure Harry will put together another great meeting so make plans to attend.

I hope each of you have a great year. I look forward to seeing you in October.

Jason Carlee
President, MSAPMS 2009-2010



Visit the MSAPMS Website: www.msapms.org
The membership list can be viewed by using the following:

User Name: msapms Password: lilypad



MSAPMS 2010 Conference *First Call for Papers*

Oral presentations will be 15 minutes, including questions. Presentations are encouraged on all aspects of aquatic and wetland plant management, biology, and ecology. Presenters are requested to register for the conference.

Please e-mail the Title Form, attached below, and a brief abstract (250 words or less) by July 31, 2010:

Harry Knight
Applied Biochemists
14 Valerie Lane
Culman, AL 35058
Harryknight@appliedbiochemists.com

A computer and projector to handle Power Point presentations will be provided. No other presentation format will be supported. Please bring your presentation on a USB compatible flash or CD.

Title Form

Title: _____

Corresponding Author: _____

Affiliation: _____

Address: _____

Phone: _____ E-mail: _____

PLEASE DO NOT DELAY. MAKE PLANS TO ATTEND, PRESENT, AND PARTICIPATE IN THIS CONFERENCE. INVITE THOSE YOU ASSOCIATE WITH TO SUBMIT AN ABSTRACT AS WELL!

Editorial Guidelines

The MidSouth Aquatic Plant Management Society

Font: Times New Roman, size 12

Title: Bold, upper case. Align Left. End with period.

Author: Name follows Title, sentence case. Underline name of presenting author. Separate authors with commas. End with semicolon.

Affiliation: Sentence case. Include author's affiliation, address with zip code, e-mail address. If needed, insert semicolon and follow with second author's information. If there are three or more authors, add superscripts for clarity (for example, John Smith¹). Justify.

Body of Abstract: Leave one blank line between title/author/affiliations and the body of the abstract. No indentation; one paragraph only. Justify.

Scientific Names: For plants, animals, and microbes, etc., use the WSSA approved common name followed by the genus and species names in italics, wherever possible (for example, diquat dibromide).

Scientific Units: Use of Metric or English units are acceptable. Use of standard abbreviations is acceptable.

See example below:

LITTORAL ZONE PLANT COMMUNITIES IN THE ROSS BARNETT RESERVOIR, MS.

Wersal, R.M.¹, J.D. Madsen¹ and M.L. Tagert²; ¹GeoResources Institute, Mississippi State University, Box 9652 Mississippi State, MS 39762-9652, rwersal@gri.msstate.edu. ² Mississippi Water Resources Research Institute, Mississippi State University, Box 9680 Mississippi State, MS 39762-9680

The Ross Barnett Reservoir is a 33,000 acre surface water impoundment created on the Pearl River near Jackson, Mississippi. The Reservoir is the primary source of potable water for the city of Jackson. It provides recreational opportunities in the form of fishing, boating, water sports, and onshore camping and hiking. In recent years, non-native aquatic macrophytes have increased in distribution, impeding navigation, fishing, and reduced the aesthetics of waterfront properties. We conducted a whole-lake survey in June 2005 to assess the distribution and abundance of plant communities in the Reservoir to serve as a starting point for a long term management plan. In October 2006 a survey of the littoral zone (water depths of ≤ 10 feet) was conducted based on the points sampled in 2005. A plant rake was deployed at each of 508 points visited. Species presence was mapped using handheld computers outfitted with GPS receivers, and data stored in database templates using Farm Site Mate software. A total of 21 aquatic or riparian plant species were observed growing in or along the shoreline of the littoral zone. American lotus and water primrose were the most common plant species observed in the littoral zone (17.7 % and 7.4% respectively). Non-native plants included alligatorweed (*Alternanthera philoxeroides*) (3.9%), waterhyacinth (*Eichhornia crassipes*) (2.9%), and hydrilla (*Hydrilla verticillata*) (0.6%). Bladderwort (*Utricularia vulgaris*), a native submersed aquatic plant was also observed (0.4%) for the first time. Overall, species occurrence was lower during in 2006 than in 2005.

2010 MidSouth Aquatic Plant Management Society Scholarship Opportunity

The MSAPMS is seeking applications for the 2010 graduate student scholarship to be awarded at the 29th annual meeting at a place to be determined. One scholarship of \$2,000 will be awarded to a qualified student applicant.

To apply, The Scholarship Committee should receive the following information on or before June 1, 2010:

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 their proposed research to aquatic plant management.
2. Copies of official transcripts of undergraduate and any graduate work completed to date;
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 research proposal; and
5. Two letters of recommendation (other than the major professor)

To enter an application or request more information, contact:

Dr. John D. Madsen
Mississippi State University
Geosystems Research Institute
Box 9652
Mississippi State, MS 39762-9652
Ph. 662-325-2428
E-mail. jmadsen@gri.msstate.edu

Aquatic Weed Short Course

Mark your calendar and plan to take part in the 2010 Aquatic Weed Short Course to be held May 3-6, 2010 at the Coral Springs Marriott Hotel, Golf Club, and Convention Center in Coral Springs, FL.



The short course is designed to benefit those new to the industry and experienced professionals seeking a comprehensive update. Topics include:

- * General Standards (CORE) Training
- * Pesticide Application Equipment Calibration Training
- * Plant Identification
- * Aquatic Pest Control Category Training
- * Natural Areas Weed Management Training
- * Right-of-Way Weed Management Training

Register Online Today!

Registration is now available for the 2010 Aquatic <http://conference.ifas.ufl.edu/aw/index.html>

Early Reduced Registration Fee

(By February 26, 2010) \$235.00

Regular Registration Fee

(By April 12, 2010) \$285.00

Late Registration Fee

(After April 12, 2010) \$335.00

Student Registration Fee

\$110.00

The registration fee, combined with funds contributed by our generous sponsors, provides each attendee with the educational program, course materials, a Book of Presentations, morning, mid-day and afternoon refreshments, and Tuesday evening's welcome reception.

MSAPMS Board of Directors will hold their mid-winter board meeting at Mississippi State University, Geosystems Research Institute February 24, 2010.

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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Yellow Floating Heart in Mississippi

John D. Madsen



Yellow floating heart (*Nymphoides peltata*) is a floating-leaved perennial plant that forms yellow flowers. The floating leaves are similar in appearance to spatterdock, so it is often confused with native floating-leaved plants. Native to eastern Asia, it is an invasive plant with sporadic but widely distributed occurrence in the United States. Previously found in southeastern Mississippi, in the Pascagoula River drainage; it was recently reported from Warren County in west-central Mississippi. Since this plant is sold in the ornamental plant trade, incidental planting in private ponds is the most likely mode of spread.

Yellow floating heart is more commonly observed in the northeastern states, where it often causes extensive nuisance problems. Southern Ontario has also reported extensive problems with this invasive species.

A fact sheet on yellow floating heart is available at the Nonindigenous Aquatic Species webpage, at <http://nas.er.usgs.gov>.

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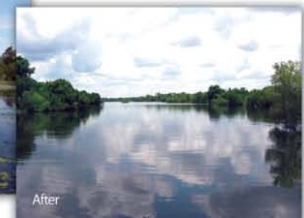
For more information contact your SePRO aquatic specialist,

Larry Hartmann at (210) 274-3626.



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Update on the Pesticide Permitting Process

Carlton Layne

In November 2009, Crop Life America and others appealed the 6th Circuit Court decision to the U.S. Supreme Court. Following this appeal, the Aquatic Ecosystem Restoration Foundation, Aquatic Plant Management Society, and 22 other parties (including the Chamber of Commerce of the United States of America) filed an Amicus Brief on December 4, 2009 in support of the appeal. The U.S. Environmental Protection Agency also filed a brief that outlined errors of the 6th Circuit Court decision and indicated they (EPA) were working on the permitting process. Now we wait to see if the Supreme Court will hear the appeal.

Attention to All Involved in the Aquatic Plant Management Industry



The 7-, 14- and 25-day irrigation restrictions have been removed from the Cascade and Teton labels allowing treated

irrigation water for use immediately in irrigating crops. According to Jayne Walz, Regulatory Manager for United Phosphorus, Inc., the EPA has issued a tolerance for endothall in irrigated crops, thus allowing the removal of the irrigation restrictions from the Cascade and Teton labels.

Cascade and Teton represent the first new products of significance approved for use in the irrigation market within the last 40 years. Cascade and Teton will control many undesirable plants commonly found in irrigation canals including, sago pondweed, Eurasian watermilfoil, curlyleaf pondweed, hydrilla and many other plant species. In addition, Teton will control algal species commonly found in irrigation systems.

United Phosphorus, Inc. would like to express their appreciation to all that have supported UPI's aquatic products in the past and we look forward to your support in the future. United Phosphorus, Inc. is committed to the Aquatic Plant Management Industry and supports research in cooperation with Universities, Federal and State Agencies. This research is dedicated to better Aquatic Plant Management techniques resulting in improved Aquatic Habitat and enhancing future use of Aquatic Resources.

“LETS GO FISHIN”

F-40 Enviro-Blue

Patrick Simmsgeiger

For every problem there should be a simple solution that is ecologically safe, affordable and easy to use. For problems caused by too much sunlight, which leads to unattractive water color try F-40 Enviro-Blue. F-40 Enviro-Blue is a water shading and coloring agent that will screen U.V. rays while restoring discolored water to a natural ocean blue look. This water-dyeing product is environmentally safe and non-toxic. F-40 Enviro-Blue contains U.V. blockers that screen out excess sunlight to rid water of that dirty, stagnate, off-color appearance and restores water features to maintain the appeal of a naturally beautiful environment.

Lake dye products are non-toxic. They do not have long-term effects. Further, they are biodegradable. The dye used in lake products is the same grade as food dye, and it is not harmful. When searching for a quality lake dye product, you're better off looking at "pure dye content." Though frequently packaged by the gallon, when you're buying lake dye you are not purchasing a gallon of actual dye; instead, you're buying powdered pigment that has been diluted and is usually sold in gallon containers.

Formula F-40 Enviro-Blue is designed especially for use in reservoirs, lakes, ponds, streams, water hazards, aquariums, fountains, industrial ponds, fresh water and salt water bays. It is long-lasting, non-toxic, and will not discolor fish, animals or plant life. Due to its high concentration and solubility, F-40 Enviro-Blue begins demonstrating results within minutes, and will last for several weeks.

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BIOLOGY AND CONTROL OF AQUATIC PLANTS

A Best Management Practices Handbook

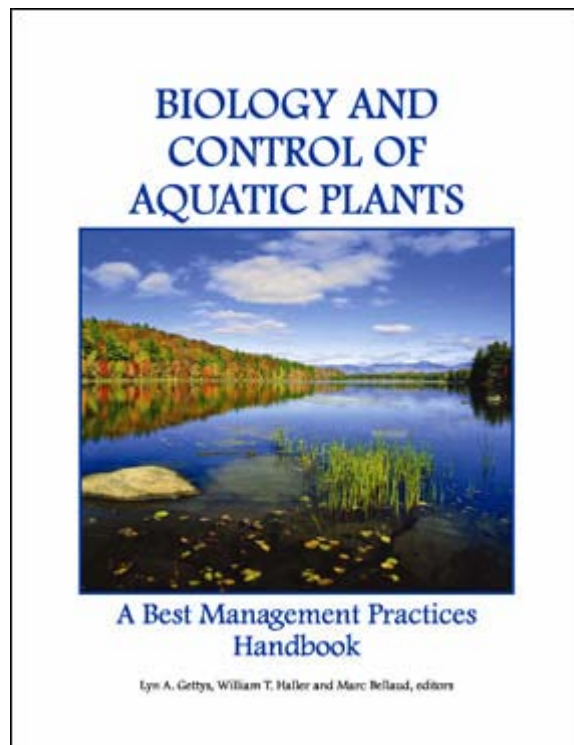
Lyn A. Gettys, William T. Haller and Marc Bellaud, editors

Prepared by

Aquatic Ecosystem Restoration Foundation
3272 Sherman Ridge Rd
Marietta, GA 30064

Contact Carlton Layne (clayne@aquatics.org) or at the above address to order hard copies. Copies are provided free of charge!

Biology and Control of Aquatic Plants: A Best Management Practices Handbook is the second edition of a handbook produced by the not-for-profit Aquatic Ecosystem Restoration Foundation (AERF). The mission of the AERF is to support research and development which provides strategies and techniques for the environmentally and scientifically sound management, conservation and restoration of aquatic ecosystems. One way the Foundation accomplishes this mission is by producing this handbook to provide information to the public regarding the benefits of aquatic ecosystem conservation and aquatic plant management. The first edition of this handbook became one of the most widely consulted references in the aquatic plant management community. This second edition has been specifically designed with water resource managers, water management associations, homeowners and customers and operators of aquatic plant management companies and districts in mind. Our goal in preparing this handbook is to provide basic, scientifically sound information to assist decision makers with their water management questions.



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study and a multi-haplotype herbicide screening study. Objectives of my thesis are to identify the annual patterns of biomass and starch allocation as well as to identify the most effective aquatic labeled herbicides for *Phragmites* control. The life history study was conducted throughout the Mobile River delta in southern Alabama from January 2006 to December 2007, to determine seasonal biomass allocation patterns. Following the life history study, I conducted a laboratory study to identify seasonal starch allocation patterns of *Phragmites* growing in the Mobile River Delta. Finally, I conducted an herbicide screening trial over two years in an outdoor mesocosm to assess effective aquatic labeled herbicides on two invasive haplotypes. I chose haplotype I, invasive to the southern United States, and haplotype M which is typically a problem in northern tier states. Currently, I am in the process of finishing my thesis and scheduling my defense date. I plan to complete my Masters Degree this spring. I want to thank the MidSouth Aquatic Plant Management Society and those that contribute to the scholarship fund that has made an impact to my Masters Degree.

MSAPMS Scholarship Update

Joshua C. Cheshier



I am finishing my master's degree in Weed Science at Mississippi State University. My thesis is entitled "The biology, ecology and management of common reed (*Phragmites australis*).” It is comprised of three main components: a life history study, a starch allocation



50th Anniversary APMS Annual Meeting



This year marks the 50th Anniversary of the Aquatic Plant Management Society. Please join us at the annual meeting in July for a special celebration! The meeting will be held July 11-14, 2010, at

the Hyatt Regency Coconut Point in Bonita Springs, Florida. The Program Committee is



preparing an interesting, full 3-day agenda with special symposia, panel discussions and invited speakers to present the history of aquatic plant management and the APMS, a symposium

on hydrilla (biology, ecology, environmental consequences of invasion, and management), and the status of NPDES legislation. As always, we will hold a graduate student paper and poster contest; our student speakers are sure to impress. The Program, Meeting Planning, and Student Affairs Committees are also hard at work preparing special social events to honor our 50th anniversary milestone with a President's Reception on Sunday evening, Poster Session on Monday evening, Banquet and Awards Ceremony on Wednesday evening with special musical guests, "The Weeds Band," and a post-conference aquatics field tour for students. You won't want to miss it!

For up-to-date meeting information, go to www.apms.org and click on "2010 Meeting." Abstract submission deadline for oral paper and poster presentations is April 16, 2010.



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Calendar of Events

Northeast Aquatic Plant Management Society Conference

Jan 18-20, 2010
Saratoga Springs, NY
www.neapms.net

Weed Science Society of America Annual Meeting

Feb 7-11, 2010
Denver, CO
www.wssa.net/Meetings/WSSAAnnual/Info.htm

Midwest Aquatic Plant Management Society Annual Conference

Feb 28 - Mar 2, 2010
Indianapolis, IN
www.mapms.org

Western Aquatic Plant Management Society Conference

Mar 28-31
Seattle, WA
www.wapms.org

Aquatic Weed Control Short Course

May 3-6, 2010
Coral Springs, FL
www.conference.ifas.ufl.edu/aw

Aquatic Plant Management Society 50th Annual Meeting

July 11-14
Bonita Springs, FL
www.apms.org

May Newsletter Deadline

April 15, 2010

Send Newsletter Items to:

Ryan Wersal

E-mail: rwersal@gri.msstate.edu