

Midsouth Aquatic Plant Management Society

Newsletter

Volume 30 Number 1

January 2012

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Message from the President

Dear Mid-South APMS Members,

Happy New Year! I hope everyone is well! I'm sure that many of you would agree that the holidays have blown by. Now, February is rapidly approaching. A season that was once considered as down time, at least by me, is nearly as busy now as the rest of the year. I'm certainly not complaining, and I hope y'all believe, as I do, that "busy is a blessing".

As I'm sure you're all aware, we're now faced with an unprecedented number of regulations. Also, you probably know that every state has the ability to adapt these regulations to their liking, as long as the effort meets EPA standards and requirements. I've found that most states are as leery of these regulations as many of us have been. For that reason, it appears that the level of burden will be minimal, and the permits will be workable. I encourage each of you to work closely with your respective state governments to make this process one that is beneficial for all.

As our organization looks forward, I am sure we will have many topics to discuss at our next meeting. I would imagine that discussions of the new permits and their impact on aquatic plant management might lead the way. I would also expect there to be a significant number of updates regarding application techniques and new herbicide formulations/rates.

I would be remiss if I didn't take this opportunity to thank the entire board of directors for their dedication to the society. I especially need to thank Ryan Wersal and Sherry Whitaker for keeping me and a few other people on task. Also, my appreciation goes to Gerald Adrian for planning the upcoming meeting (please plan to attend), and Craig Aguillard for keeping watch on the treasury. Please give these folks, and the rest of the board of directors, a "thanks" when you see them for volunteering their time to help the society. Also, keep in mind that APMS will be having its annual meeting in Salt Lake City in July. Make plans to attend if at all possible. It will be a great meeting.

Thanks for your time, and for your support of the society. We may be a small group when compared to other industries, but our niche is of great importance. Also, I don't know of another industry where relationships can be built that compare to the ones we build. I wish you all well, and many blessings in 2012.

Thanks,

Troy L. Goldsby

President - MSAPMS

**Minutes of the MidSouth Aquatic Plant
Management Society
Annual Business Meeting
October 5, 2011
Lake Guntersville State Park
Guntersville, Alabama**

The meeting was called to order by President Harry Knight at 4:55 p.m.

Officer Reports

Secretary's Report:

Secretary Sherry Whitaker stated that minutes from the last annual business meeting are available at the registration desk if anyone is interested in looking at them.

An e-mail will be sent out to all members who were unable to attend the annual meeting. Each will be reminded to pay their dues in order to continue receiving Society news.

This year's workshop and meeting agenda were sent to the following 10 states for consideration of CEU's: Alabama, Georgia, Mississippi, Tennessee, Texas, Florida, Louisiana, North Carolina, Kentucky and South Carolina.

Treasurer's Report:

Judy Shearer was unable to attend. Secretary Sherry Whitaker stated that a breakdown of the Society finances is as follows:

Business Money Market - \$15,510.70
Lifegreen Checking - \$42,463.35
Small Business CD - \$31,972.42
Total: \$89,946.47

The books of the Society have now been converted to Quickbooks. This will allow for detailed accounting of what money is coming in and how it is being used. It will also make auditing much easier. The Board has voted to accept credit cards, So starting at the next annual meeting credit cards will be accepted.

Editor's Report:

Ryan Wersal stated to the membership that if anyone is not receiving a copy of the newsletter via e-mail, please let him know.

The next issue of the newsletter will be sent out in January. Any information that needs to be included should be sent to Ryan as soon as possible.

Troy Goldsby made a motion to accept the Officer Reports as presented, Ryan Wersal seconded and voice vote made by all to accept.

Committee Reports

Membership Committee:

No report. (Covered in Secretary's report)

Program Committee, Site Selection:

No report.

Editorial Committee:

No report. (Covered in Editor's report)

Website Committee:

Any new content should be sent to Ryan for inclusion.

If anyone sees anything that needs to be changed or updated on the website, please let Ryan know and he will have it taken care of.

Internal Audit:

The financial records of the Society were audited by Tom Broadwell and Tom Warmuth.
The books were complete and in order.

**MSAPMS Board of Directors will hold
their next board meeting at Mississippi
State University on March 7, 2012.**

Nominating Committee:

The following slate was presented to the membership:

President-Elect – Gerald Adrian
Secretary – Sherry Whitaker
Treasurer – Craig Aguillard
Editor – Ryan Wersal
Director (1 yr term) – Josh Yerby
Director (1 yr term) – Jim Petta
Director (2 yr term) – Cliff Young
Director (2 yr term) – Tom Warmuth

No nominations were made from the floor. Troy Goldsby made a motion to accept this slate of nominees, Bryan Goldsby seconded, voice vote by all to accept.

Scholarship Committee: No Report.

Review of Bylaws

The proposed changes to the By-laws were listed in the May and August newsletters. Jason Carlee presented these changes to the Society.

Ryan Wersal made a motion to accept the changes as written, Troy Goldsby seconded, voice vote by all to accept.

Review of Operating Manual: No Revisions

A motion was made by Terry Goldsby to accept the committee reports. Cliff Young seconded, voice vote by all to accept.

Old Business: None.

New Business

There will be sign-up sheet for committees located at the registration desk.

Ryan Wersal handed out Invasive Plant Management surveys and requested input from everyone so that their voices are heard.

Troy Goldsby made a motion to adjourn, Tom Broadwell seconded, and the meeting was adjourned by voice vote at 5:05 p.m.



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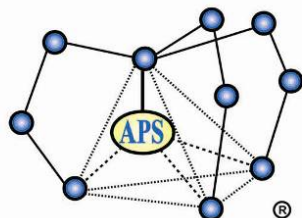
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MidSouth Aquatic Plant Management Society 30th Annual Conference 2011

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, 2011:

Gerald Adrian
United Phosphorus Inc.
gerald.adrian@uniphos.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.

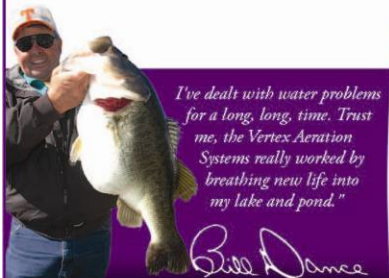
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2011 H₂O Pro™ Aquatic Herbicide Performance Guarantee

QUALIFYING PARTICIPANT: Professional aquatic applicators with total purchases of Qualifying Products during the 2010 Program Period (October 1, 2009 through September 30, 2010) of \$7,500 or greater **OR** total purchases of Qualifying Products during the 2011 Program Period of \$7,500 or greater.

QUALIFYING PRODUCTS: All Syngenta Products labeled for aquatic use and purchased from a Syngenta Authorized Distributor/Retailer/Agent, including but not limited to all package sizes of Reward® Landscape and Aquatic Herbicide and Refuge™ Herbicide.

TREAT WITH CONFIDENCE:

During the 2011 Program Period—October 1, 2010 through September 30, 2011:

- Apply Qualifying Products at the maximum labeled rate for the treatment area and in accordance with the product label(s). Use Qualifying Products in combination with any approved tank-mix partner in accordance with the label. For your convenience, the tank-mix partners for Reward are listed below.

...AND YOU'RE COVERED:

- If the Qualifying Product does not perform as stated under the Guarantee Terms and Conditions below, Syngenta will share up to 50% of the total cost of the Syngenta Qualifying Product used for retreatment.

GUARANTEE TERMS AND CONDITIONS:

- The Qualifying Product will control at least 70% of the treated, labeled weed(s) as compared to untreated areas with similar weed infestation, environment, weather, and other conditions.
- Claims must be filed within thirty (30) calendar days of application so that the claim may be verified and evaluated.
- Any claims under the H₂O Pro™ Aquatic Herbicide Performance Guarantee must be received by Syngenta on or before October 30, 2011. Go to www.syngentavm.com to file a claim.
- Only licensed professional aquatic herbicide applicators may participate in the H₂O Pro Aquatic Herbicide Performance Guarantee Program.
- To qualify, Claim Form must be filled out in its entirety.
- Syngenta reserves the right to verify all purchases. Syngenta reserves the right to add or delete Qualifying Products at its discretion.
- Syngenta will reimburse up to 50% of the cost of the Qualifying Product for one (1) retreatment. Claim subject to verification by Syngenta territory manager or other party designated by Syngenta. Reimbursement is at the sole discretion of Syngenta. Cost and reimbursement amount is based on price of the Qualifying Product used at the time of treatment. Syngenta may, at its discretion, reimburse with product or cash.

- Syngenta will not pay for the application or other costs of retreatment. The maximum benefit any individual claimant may receive for the 2011 Program Period is a \$50,000 contribution toward the cost of the retreatment.
- Program benefit is for weed control only; Syngenta will not pay for any other service, product, loss, or damages.
- Surface application of floating weeds (including surface algae) and submersed weeds (excluding subsurface algae) on Reward label are covered by the 2011 H₂O Pro Aquatic Herbicide Guarantee.
 - Minimum application rates for Reward are listed in the accompanying chart.
 - For very dense submersed populations of weeds, it is recommended to use Reward in combination with a copper-based aquatic herbicide or an endothall product from the approved tank-mix partner list set forth herein.

PERFORMANCE GUARANTEE RATES FOR REWARD*

Weed species	Gallons per surface acre
Algae (<i>Spirogyra</i> spp. & <i>Pithophora</i> spp.)	2
Bladderwort (<i>Utricularia</i> spp.)	2
Coontail (<i>Ceratophyllum demersum</i>)	2
Duckweed (<i>Lemna</i> spp.)	1
Elodea (<i>Elodea</i> spp.)	2
Frog's Bit (<i>Limnobium spongia</i>)	.75
Hydrilla (<i>Hydrilla verticillata</i>)	2
Naiad (<i>Najas</i> spp.)	2
Pennywort (<i>Hydrocotyle</i> spp.)	.75
Pondweeds (<i>Potamogeton</i> spp.)	2
Salvinia (<i>Salvinia</i> spp.)	.75
Waterhyacinth (<i>Eichhornia crassipes</i>)	.75
Waterlettuce (<i>Pistia stratiotes</i>)	.75
Watermilfoils (<i>Myriophyllum</i> spp.)	2

*Always follow product label use directions. The Performance Guarantee is valid only when Reward is applied at the rates identified above.

APPROVED TANK-MIX PARTNERS FOR REWARD**

Clearigate® copper-herbicide/algacide	Nautique™ herbicide
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Komeen™ herbicide	Aquathol® herbicide
Cutrine®-Plus herbicide/algacide	Hydrothol® herbicide

**Other tank-mix combinations must be approved by a Syngenta territory manager prior to use to retain eligibility for the H₂O Pro Aquatic Herbicide Performance Guarantee.

To learn more about the 2011 H₂O Pro Aquatic Herbicide Performance Guarantee, contact Melissa Barron at 407.257.8043 or melissa.barron@syngenta.com.

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2012 MidSouth Aquatic Plant Management Society Scholarship Opportunity

The MSAPMS is seeking applications for the 2012 graduate student scholarship to be awarded at the 31st 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, 2012:

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 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 research proposal; and
5. One letter of recommendation (other than the major professor).

Submit a hardcopy at address below, **Or** electronically via e-mail.

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

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John Madsen, Geosystems Research Institute

The Geosystems Research Institute, in conjunction with the Department of Plant and Soil Sciences and the R. R. Foil Plant Research Facility, has developed two contained research facilities dedicated to studying the biology, ecology and management of aquatic plants. Located on the R. R. Foil Plant Research Facility (“North Farm”), the facilities were developed using project funds for aquatic plant research. These facilities include a greenhouse and mesocosm tank area, both of which are locked to limit access.

The greenhouse has been modified to hold thirty-six 30-gallon aquaria and twenty-four 150-gallon tanks (Photos 1, 2). The greenhouse is used for small-scale, low replicate studies of the biology and management of aquatic plants, including curlyleaf pondweed and Eurasian watermilfoil. Tropical aquatic plants sensitive to cold weather have also been overwintered in this facility.

The mesocosm facility currently has over 500 tanks ranging from 50 to 500 gallons, to allow large replicated manipulative experiments (Photo 3). Air and filtered irrigation pond water are delivered to each tank. During the summer, shade cloth is suspended above the tanks to help moderate water temperatures, without reducing light to limiting levels. The mesocosm facility has been used for federal and state government contracts, as well as contracting with private companies and nongovernment organizations. The facility allows a wide range of manipulative experiments, including the effects of altering environmental parameters on plant growth, examining life history and phenology, and management strategies including biological, chemical, mechanical and physical techniques. Plant growth responses are often quite dramatic.

These facilities will be quite important to developing management techniques for invasive aquatic plants. The combination of having a secure facility to prevent the spread of plants, and

being able to manipulate the environmental conditions or replicate the concentration and exposure time of approved aquatic herbicides will assist in developing management approaches for Mississippi, the MidSouth, and the United States. To pursue this objective, we have obtained a permit to hold Mississippi State Noxious Weeds from the Mississippi Department of Agriculture and Commerce, Bureau of Plant Industry.



Photo 1. Thirty-six aquaria are used for small scale experiments in the aquatic plant greenhouse.

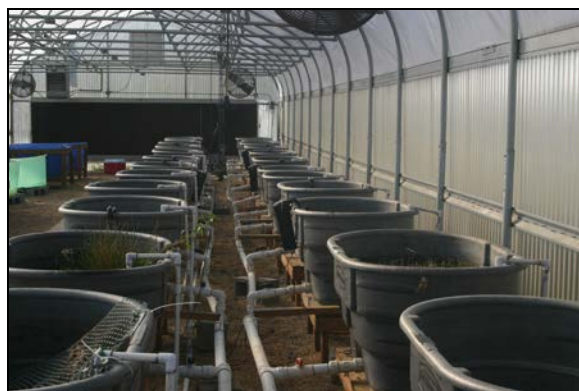
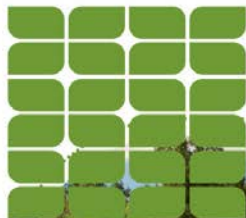


Photo 2. Twenty-six 100-gallon tanks are used for plant propagation in the aquatic plant greenhouse.



Photo 3. The outdoor mesocosm houses over 500 tanks ranging in size from 30-gallon to 500-gallon.



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SAVE THE DATE!

3rd Annual



February 26 to March 3, 2012 in Washington DC

A week of activities, briefings, workshops and events focused on strategizing solutions to address invasive species prevention, detection, monitoring, control, and management issues at local, state, tribal, regional, national and international scales.

HIGHLIGHTS INCLUDE:

- National Invasive Species Council (see www.invasivespecies.gov) holds public meeting
- Grassroots action to prevent and control invasive species – Panel discussions and Webinar
 - Success stories and challenges
 - Cooperative Weed and Invasive Species Management Areas and Tribal efforts
- Capitol Hill Briefings on aquatic invasive species, including quagga and zebra mussels and Asian carp
- Workshop on invasive species prevention and management in urban areas
- Invasive Species Award Ceremony and Reception
- Kids Invasive Species Awareness Day at the US Botanic Garden
- Weed Prevention - Best Practices Proven to Work/ *How to turn away unwelcome guests*
- Prevention through Outreach and Awareness – Experts panel on lessons learned
- Invasive Species Solutions – poster session
- Update by federal agencies on important invasive species issues and initiatives
- State and Local events highlighting invasive species efforts throughout the country!

Check www.nisaw.org for more details and further developments!

Contacts:

Lee Van Wychen, Ph.D.
National and Regional Weed Science Societies
Lee.VanWychen@wssa.net

Lori Williams
National Invasive Species Council
Lori_Williams@ios.doi.gov

Participating organizations: The Aquatic Nuisance Species Task Force, the Association of Fish and Wildlife Agencies, the Federal Interagency Committee for the Management of Noxious and Exotic Weeds, the Great Lakes Commission, the Federal Interagency Committee on Invasive Terrestrial Animals and Pathogens, the United States Botanic Garden, and many others.



AQUATIC WEED CONTROL SHORT COURSE

May 7-10, 2012
Coral Springs Marriott Hotel
Coral Springs, FL

www.conference.ifas.ufl.edu/aw

Course Overview

The Annual Aquatic Weed Control Short Course is hosted by the University of Florida and brings together more than 400 applicators, educators, and industry representatives to learn new techniques and refresh core competencies in aquatic and upland weed control. This course focuses on invasive and exotic species affecting Florida and provides many networking opportunities so that participants may share field experiences and lessons learned.

The conference is generally divided into two types of sessions. General sessions which cover CORE standards and concurrent sessions on Aquatics and Right-of-Ways & Natural Areas. The course also features a number of special sessions which include Live Plant ID and Hands-On Calibration Training. Participants have the flexibility to attend multiple sessions in order to reach their CEU credit quotas.

For those looking to become licensed applicators, the course offers CORE and category testing at the conclusion of the course, as well as an exam study session the evening before exams.

Who Should Attend

The Aquatic Weed Control Short Course is designed to benefit those new to the industry and experienced professionals seeking a comprehensive update. You will benefit from attending this program if you:

- Need Florida Pesticide Applicator CEUs for categories such as:
 - Aquatic
 - Right-of-Way
 - Natural Areas
 - General Standards (CORE)
 - Forestry
- Are responsible for aquatic weed control in canals, lakes, golf course ponds, rivers, parks, residential developments and other waterways.
- Are employed by a public agency or private company which is responsible for vegetation management along right-of-ways and in natural areas.
- Are an employee of a basic manufacturer or a distributor that markets aquatic or vegetation management herbicides.
- Use biological control techniques to suppress aquatic weed growth.

Register Online Today!

Early Rate (by February 24, 2012) - **\$240**

Regular Rate (by April 9, 2012) - **\$290**

Late Rate (after April 9, 2012) - **\$340**

Student Rate - **\$115**

Why YOU Should Attend

- Earn 20+ Florida CEUs in 2.5 days!
- Fully recertify your Florida Aquatics, Natural Areas, or Right-of-Way license
- Get hands-on experience in Aquatic/Upland Plant ID and Calibration
- Network with your peers and industry representatives
- Learn new skills and emerging techniques
- Test for new categories or get your first license
- Learn from faculty that write the exams for Florida applicators

Meeting Site & Hotel Information

Coral Springs Marriott Hotel

11775 Heron Bay Boulevard
Coral Springs, FL 33076
Phone: 954-753-5598

Block Cut-Off Date: April 13, 2012

Reduced Aquatic Weed Group Rate:

\$102 plus applicable taxes (currently 11%) per night for 1-4 people per room. Upgraded rooms are also available at an increased group rate.

To make your reservation call 954-753-5598 and specify that you are attending the **Aquatic Weed Short Course**.

Questions?

For more information about Aquatic Weed Control Short Course, visit the course website and join the mailing list.

Should you have specific questions, please contact Jhanna Gilbert, Short Course Coordinator at jhanna@ufl.edu or 352-392-5930.

News from Diversified Waterscapes

Allison McCarley

In 2012, Diversified Waterscapes will be introducing new products and implementing more water quality testing. The added testing and analysis will allow us to better implement rates at which our biological products affect the oxygen reducing potential (ORP) and biochemical oxygen demand (BOD) levels in lakes.

The implementation of these products should increase the quality of the water and the life of ponds and lakes we manage.



Thank you to Our Sustaining Members for Supporting the MidSouth Aquatic Plant Management Society

Alabama Power Company
Alligare, LLC
Applied Biochemists
Applied Polymer Systems
AquaServices, Inc.
Aquatic Restoration Services
BioSafe Systems, LLC
Brewer International
CPS Timberland

Cygnat Enterprises, Inc.
Diversified Waterscapes, Inc.
Dow AgroSciences
Helena Chemical Company
SePRO Corporation
Syngenta Professional Products
United Phosphorus, Inc
Vertex Water Features
Winfield Solutions, LLC

WebSite Committee

We are in the process of putting together an archive section on the MSAPMS website containing past issues of the newsletter and abstracts from meetings. If you have old newsletters and/or programs please send them to Ryan Wersal to be scanned into an electronic format for posting to the website.

Send to:
Ryan Wersal
Geosystems Research Institute
Box 9627
Mississippi State, MS 39762
rwersal@gri.msstate.edu

Calendar of Events

Northeast Aquatic Plant Management Society Conference

Jan 17-29, 2012
New Castle, NH
www.neapms.net

Weed Science Society of America Annual Meeting

Feb 6-9, 2012
Big Island, HI
www.wssa.net

Midwest Aquatic Plant Management Society Annual Conference

Feb 26-29, 2012
Milwaukee, WI
www.mapms.org

NISAW

Feb. 26-Mar. 3, 2012
Washington DC.

Western Aquatic Plant Management Society Conference

Apr 2-4, 2012
San Diego, CA
www.wapms.org

Aquatic Weed Control Short Course

May 7-10, 2012
Coral Springs, FL
<http://conference.ifas.ufl.edu/aw/prep.html>

Aquatic Plant Management Society 50th Annual Meeting

July 22-25, 2012
Salt Lake City, UT



May newsletter deadline, April 15, 2012. Send information to rwrsal@gri.msstate.edu.