

Midsouth Aquatic Plant Management Society

Newsletter

Volume 26 Number 3

September 2008

BOARD OF DIRECTORS

Officers

BRYAN GOLDSBY - President
888-669-3337
bryang@aquaservicesinc.com

JOHN MADSEN - President Elect
662-325-2428
jmadsen@gri.msstate.edu

SHERRY WHITAKER - Secretary
601-634-2990
sherry.l.whitaker@erdc.usace.army.mil

JEREMY SLADE - Treasurer
352-392-9981
jgslade@ufl.edu

RYAN WERSAL - Editor
662-325-4595
rwersal@gri.msstate.edu

BOB GUNKEL - Past President
rgunkel@cablelynx.com

Directors

DAMON ABERNETHY
334-353-0270
damon.abernathy@dcnr.alabama.gov

JASON CARLEE
205-664-6230
jcarlee@southernco.com

NEIL COULTER
704-883-8833
ncoulter@cygnetenterprises.com



Don't Delay, Register Now for the Upcoming 27th Annual Midsouth Aquatic Plant Management Society Meeting in Mobile, Alabama!

Register today for the 27th Annual Midsouth Aquatic Plant Management Society Meeting October 21-23 to ensure the Early Registration Fee. The meeting registration fees are \$100 for delegates, \$50 for guests (spouse, partner, child over 12 years of age), and \$35 for students (not presenting a paper), if received by September 21, 2008. After which, fees at the door will be \$150 for delegates and \$75 for guests. Please help by completing the Registration Form provided in this newsletter and submitting it prior to September 21, 2008.

Reservations for hotel accommodations at the Renaissance Riverview Plaza Hotel must be made before September 21, 2008. Our special guest room rate is \$119.00 single or double occupancy per night plus applicable tax, currently 14%. A limited number of rooms are available at the prevailing government per diem rate on a first come, first serve basis. A valid government I.D. will be required at check-in. To make reservations for regular or government rated rooms, call Renaissance Riverview Plaza reservations at 800-922-3298, and be sure to mention our group as "MidSouth Aquatic". Reservations for regular rated rooms may also be made online at www.marriott.com: 1) find the city (Mobile); 2) then the hotel (Renaissance Riverview Plaza); 3) on the Renaissance Riverview Plaza home page enter our group code "msamsaa" in the box located at the bottom right corner of the screen; 4) and then follow the instructions. Government rated rooms must call the "800" number. All reservations must be guaranteed with a major credit card or accompanied by a first night room deposit. Cancellation of reservations must be made at least 72 hours prior to arrival date. Check-in time is 3:00 p.m. and check-out time is 12:00 p.m. We look forward to seeing each of you in Mobile!



27th Annual Meeting of the MidSouth APMS

October 21-23, 2008

Registration Form

Delegate/Student Information

Name: _____

Affiliation: _____

Address: _____

City: _____ State: _____ Zip Code: _____

E-mail Address: _____

Phone: _____ Fax: _____

Registration (Includes Reception, Lunch, Banquet, and Refreshment Breaks)

	Early <small>(By September 21, 2008)</small>	At the Door	
<input type="checkbox"/> Delegate Registration <i>(Includes 2008 Regular Membership Dues)</i>	\$ 100.00	\$ 150.00	\$ _____
<input type="checkbox"/> Student Registration (Presenting Paper)	\$ 0.00	\$ 0.00	\$ <u>0.00</u>
<input type="checkbox"/> Student Registration (Not Presenting Paper) <i>(Includes 2008 Student Membership Dues)</i>	\$ 35.00	\$ 35.00	\$ _____
<input type="checkbox"/> Guest Registration Name: _____ <i>(Spouse, partner, child over 12 years-of-age)</i>	\$ 50.00	\$ 75.00	\$ _____

2008 Membership Dues

<input type="checkbox"/> Student	\$ 5.00	\$ _____
<input type="checkbox"/> Sustaining	\$ 50.00	\$ _____

Total Amount \$ _____

Early registration accepted if form and payment received by September 21, 2008.

Please Mail Completed Form and Payment to:

Jeremy Slade
 U.S. Army Engineer R&D Center, EP-P
 3909 Halls Ferry Road
 Vicksburg, MS 39180-6199
 E-mail: Jeremy.G.Slade@usace.army.mil
 Fax: 601-634-2617

Cancellation/Refund Policy

Registration fees are fully refundable prior to September 30, 2008, less a \$25.00 processing and handling fee. No refund of any fees will be issued if cancellation of participation is received after September 30, 2008. Notice of cancellation must be received by MSAPMS via mail, fax, or e-mail. **Phone cancellations will not be accepted.**

27th Annual MSAPMS Preliminary Agenda and Program

Agenda

Tuesday, October 21

Tuesday's Agenda-at-a-Glance

2:00 pm - 5:00 pm	Board of Directors Meeting (<i>Baypointe Suite</i>)
1:00 pm - 6:00 pm	Meeting Registration (<i>Preconvene 2 Center</i>)
1:00 pm - 6:00 pm	Exhibits Setup (<i>Preconvene 2 Center</i>)
7:00 pm - 9:00 pm	Welcoming Social (<i>Jubilee Suite</i>)

Wednesday, October 22

Wednesday's Agenda-at-a-Glance

7:30 am - 8:30 am	Continental Breakfast (<i>Mobile Bay Foyer</i>)
7:30 am - 5:00 pm	Meeting Registration (<i>Preconvene 2 Center</i>)
7:30 am - 5:00 pm	Exhibits Open (<i>Preconvene 2 Center</i>)
8:30 am - 12:00 pm	Session One (<i>Mobile Bay Ballroom</i>)
10:00 am - 10:30 am	Refreshment Break (<i>Mobile Bay Foyer</i>)
12:00 pm - 1:30 pm	Lunch (<i>Schooner</i>)
1:30 pm - 4:30 pm	Session Two (<i>Mobile Bay Ballroom</i>)
3:00 pm - 3:30 pm	Refreshment Break (<i>Mobile Bay Foyer</i>)
4:30 pm - 5:00 pm	Business Meeting (<i>Mobile Bay Ballroom</i>)
6:00 pm - 10:00 pm	Banquet (<i>Schooner</i>)

Session One (*Mobile Bay Ballroom*)

Moderator: Jason Carlee, Alabama Power Company

- 8:30 am **Opening Remarks and Announcements**
- 8:40 am **Presidential Address**
Bryan Goldsby
AquaServices Inc., Guntersville, Alabama
- 9:00 am **Keynote Address: The Mississippi Aquatic Invasive Species Task Force and Plan**
Henry Folmar
Mississippi Department of Environmental Quality, Jackson, MS
- 9:30 am **Aquatic Plant Management Society Update**
Carlton Layne
President, Aquatic Plant Management Society
- 9:45 am **Aquatic Ecosystem Restoration Foundation Update**
Carlton Layne
Executive Director, Aquatic Ecosystem Restoration Foundation
- 10:00 am **Refreshment Break** (*Mobile Bay Foyer*)

- 10:30 am **Aquatic Nuisance Plant Species in Arkansas**
Patricia Eklund, Carole Engle, and Mark Oliver
Aquaculture and Fisheries Center, University of Arkansas at Pine Bluff, Pine Bluff, AR
And Arkansas Game and Fish Commission, Little Rock, AR
- 10:45 am **Giant Salvinia (*Salvinia molesta*) in the Pascagoula River Basin, MS.**
Mike G. Pursley, J. Clark, D. Diaz, and J. D. Ballard
Mississippi Department of Marine Resources, Biloxi, MS
- 11:00 am **The Presence of Hydrilla and Giant Salvinia in Mississippi.**
Wilfredo Robles, V. L. Maddox, J. D. Madsen, and R. M. Wersal
GeoResources Institute, Mississippi State University, Starkville, MS
- 11:15 am **Monitoring Non-Native Plant Populations in the Ross Barnett Reservoir, MS.**
Ryan M. Wersal, J. D. Madsen and M. L. Tagert
GeoResources Institute and the Mississippi Water Resources Research Institute, Mississippi State University, Starkville, MS
- 11:30 am **Industry Updates**
- 12:00 pm **Lunch** (*Schooner*)
- Session Two** (*Mobile Bay Ballroom*)
Moderator: Bryan Goldsby, Aquaservices
- 1:30 pm **Pesticide Handling and Compliance**
Carlton Layne
Executive Director, Aquatic Ecosystem Restoration Foundation
- 2:00 pm **Control of Giant Salvinia (*Salvinia molesta*) - What Has Not Worked In Louisiana.**
D. E. Sanders and A. K. Whitehead
Bob R. Jones-Idlewild Research Station, LSU AgCenter
- 2:15 pm **Control of Giant Salvinia (*Salvinia molesta*) – What Has Worked In Louisiana.**
D. E. Sanders and A. K. Whitehead
Bob R. Jones-Idlewild Research Station, LSU AgCenter
- 2:30 pm **Management of Aquatic Weeds in Public Waters of Arkansas- Species and Current Control Techniques**
Patricia Eklund, Carole Engle and Mark Oliver
Aquaculture and Fisheries Center, University of Arkansas at Pine Bluff, Pine Bluff, AR
And Arkansas Game and Fish Commission, Little Rock, AR
- 3:00 pm **Refreshment Break** (*Mobile Bay Foyer*)
- 3:30 pm **Impact of Insect Herbivory on Viability and Establishment of Hydrilla Fragments**
Chetta S. Owens, Michael J. Grodowitz and R. Michael Smart
Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX and US Army Engineer Research and Development Center, Vicksburg, MS
- 3:45 pm **Lowering Use of Copper Sulfate without Losing Effectiveness**
Patrick Simmsgeiger
Diversified Waterscapes

- 4:00 pm **An update on pathogen biological control at ERDC**
Judy F. Shearer
U.S. Army Engineer Research and Development Center, Vicksburg, MS
- 4:15 pm **Integrating Herbicides with *Mycroplectodiscus terrestris* To Control Hydrilla**
Linda Nelson and Judy Shearer
U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
- 4:30 pm **Business Meeting**
- 5:00 pm **Adjourn**

Thursday, October 23

Thursday's Agenda-at-a-Glance

- 7:30 am - 8:30 am Continental Breakfast (*Mobile Bay Foyer*)
7:30 am - 12:00 pm Meeting Registration (*Preconvene 2 Center*)
7:30 am - 12:00 pm Exhibits Open (*Preconvene 2 Center*)
8:30 am - 12:00 pm Session Three (*Mobile Bay Ballroom*)
10:00 am - 10:30 am Refreshment Break (*Mobile Bay Foyer*)
12:00 pm - 2:00 pm Board of Directors Meeting (*Baypointe Suite*)

Session Three (*Mobile Bay Ballroom*)

Moderator: Neil Coulter, Cygnet Enterprises (tentative)

- 8:30 am **Restoring Native Aquatic Macrophytes in Little Bear Creek Reservoir, Alabama**
(Student Presentation)
Jonathan P. Fleming, Joshua C. Cheshier, and John D. Madsen
GeoResources Institute, Mississippi State University, Starkville, MS
- 8:45 am **Overwintering Behavior of *Hydrellia pakistanae* Deonier, Biocontrol Agent of *Hydrilla verticillata* (L.f.) Royle** *(Student Presentation)*
Nathan Harms and Michael J. Grodowitz
University of North Texas and U.S. Army Engineer Research and Development Center, Vicksburg, MS
- 9:00 am **Lake-Wide Temporal Surveys to Assess Aquatic Vegetation and Herbicide Efficacy of Waterhyacinth Control** *(Student Presentation)*
Wilfredo Robles and John D. Madsen
GeoResources Institute, Mississippi State University, Starkville, MS
- 9:15 am **Changes in Habitat Complexity and Dynamics of the Native Macrophyte Community After Control of Invasive Eurasian Watermilfoil** *(Student Presentation)*
Katya Kovalenko and Eric D. Dibble
Department of Wildlife and Fisheries, Mississippi State University; Box 9690, Mississippi State, MS
- 9:30 am **Industry Updates**
- 10:00 am **Refreshment Break** (*Preconvene 2 Center*)
- 10:30 am **Comparison of Subsurface and Foliar Herbicide Applications for Control of Parrotfeather (*Myriophyllum aquaticum* Vell. Verdc.)** *(Student Presentation)*
Ryan M. Wersal and John D. Madsen
GeoResources Institute, Mississippi State University, Starkville, MS

- 10:45 am **Indirect Effect of Plant Control on the Foraging Tactics by Bluegill Sunfish (*Lepomis macrochirus*)**
(Student Presentation)
Krisan Webb and Eric Dibble
Department of Wildlife and Fisheries, Mississippi State University; Box 9690, Mississippi State, MS
- 11:00 am **Combinations of Diquat and Methylated Seed Oil for Control of Duckweed and Watermeal**
(Student Presentation)
Joshua C. Cheshier, Ryan M. Wersal, and John D. Madsen
GeoResources Institute, Mississippi State University, Starkville, MS
- 11:15 am **Influence Of Shoreline Macrophyte On The Assemblage Of Different Life-Stage Of Fishes In Mississippi Delta Oxbow Lakes** *(Student Presentation)*
Matt R. Spickard and Eric D. Dibble
Department of Wildlife and Fisheries, Mississippi State University, Starkville, MS
- 11:30 am **Industry Updates**
- 11:45 am **Closing Remarks and Adjourn 27th Annual Meeting**
Bryan Goldsby



See Everyone in 2009

Upcoming Bylaws Change

The MidSouth Board of Directors passed a motion at the February 22, 2007 board meeting to make the Website Committee a standing committee. This requires a bylaws change and a vote from the Society membership. Please attend the business meeting on Wednesday 10/22/2008 from 4:30-5:00 in the Mobile Bay Ballroom.

The following addition to ARTICLE XI: COMMITTEES of the Bylaws is proposed.

Website Committee: This committee shall consist of a chairperson and at least two (2) other members. This committee will be responsible for maintaining the website and will coordinate all structural modifications therein. In addition, the committee will be responsible for approving all postings on the site.

Again please attend the business meeting for more information.

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

User Name: msapms Password: lilypad

**January Newsletter Deadline
December 15, 2008**

**Send Newsletter Items to:
Ryan Wersal
rwersal@gri.msstate.edu**

New Advertisement Opportunities in the Newsletter

Beginning January 2009, the Midsouth Aquatic Plant Management Society will offer 4 levels of advertisement in the Newsletter. The editor will be sending out letters in November and December to companies soliciting newsletter space. Advertisements should be submitted electronically as a jpeg, tiff, or equivalent. All advertisements should be high quality and reproducible.

Business Card Advertisement	\$50
Quarter Page Advertisement	\$100
Half Page Advertisement	\$200
Full Page Advertisement	\$400

New BASF Online Media Kit

In the new BASF on-line media kit you will find resources to help you share vegetation management stories with your readers. From research to fact sheets to photography, this kit is a tool for you. Throughout the year you will find new stories and product information as soon as it becomes available.

<http://www.vmanswers.com/mediakit>

New aquatic Clearcast® Herbicide from BASF receives full label approval from Environmental Protection Agency

RESEARCH TRIANGLE PARK, NC, June 13, 2008 – BASF Professional Vegetation Management (ProVM) is excited to announce that Clearcast® herbicide has received full label approval from the U.S. Environmental Protection Agency (EPA).

Clearcast, a new product from BASF ProVM, is designed for vegetation management professionals who require selective aquatic and shoreline weed control with minimal irrigation limitations. Clearcast controls target weeds, leaving desirables unaffected, making it ideal for aquatic areas that support wildlife habitat, fishing and other recreational activities.

According to the EPA, Clearcast has a very favorable environmental profile, and is classified as practically nontoxic to birds, fish, algae and aquatic invertebrates. Clearcast has been granted a tolerance exemption by the EPA, which means there are no food residue limits for Clearcast in fish, shellfish, crustaceans or irrigated crops, when used as labeled.

Clearcast may be applied in a variety of ways, including directly to water for the control of submerged aquatic plant species; as a foliar application specifically for emergent and floating species; and via ground or aerial equipment including both fixed-wing and helicopter. When applying a foliar application by boat, the boat trail must be adequately sprayed after passing through. Clearcast is also a great tank-mix partner with many other aquatic herbicides. There are minimal irrigation restrictions and no restrictions on swimming, fishing or drinking water.

For more information on how and where Clearcast is effective against aquatic weed species, or to request a label, please visit www.vmanswers.com to find your local sales representative, or call 1-800-545-9525. Always read and follow label directions.

Water lettuce Found on Campus of Mississippi State University

Earlier this month, it was brought to the attention of GeoResources Institute employees that a suspicious looking plant had taken over a storm-water retention pond at Mississippi State University. The plant was identified as water lettuce and covered 100% of the 1.75 acre pond and escaped through a water control structure into an adjacent drainage ditch. Based on satellite imagery it is believed that the plant was introduced sometime between July and August 2008. In less than 8 weeks the infestation grew from a few plants to cover the entire water surface. An eradication plan is being developed to remove the water lettuce from the pond and adjacent drainage ditch. This demonstration project will soon serve in Early Detection Rapid Response Training.



Water lettuce covering the 1.75 acre pond

Natural Microsponges Coat Underwater Plants to Help Control Hydrilla

New technology to make aquatic herbicides stick underwater for hydrilla control uses cereal grain derived microsponges found in TopFilm™ adjuvant⁶. The advantage of using sticky cereal microsponges is that you can keep the treatment on the plant rather than making it dilute in a lake environment.

For testing purposes, the concept was to allow the microsponges to absorb a standard herbicide in the tank mixture and allow the herbicide to stick to the hydrilla (leaves/stems) underwater increasing contact between the herbicide and the targeted weed (rather than diluting the herbicide in the waterway).

To test the concept, Pinellas County, Texas, staff applied various tests in a drainage ditch containing hydrilla that had minimal flow rate. Three separate

trials were constructed. All trial areas were measured by acre-foot. Each trial area was separated by a 25 foot buffer zone. Zone #1 was treated with a tank mix of the microsponge and herbicide (Aquathol K[®]). Zone #2 was treated with only the herbicide. Zone #3 was used as the reference area.



Hydrilla check (Untreated) Zone #3



Six Weeks After Treatment (Herbicide with Microsponge, Zone #1)

This portion of the article reprinted with permission from Lucia Marshall, Biosorb Inc. For information regarding the full article contact :

Lucia Marshall, Ph.D.
TAPT / Biosorb Inc.
636-936-1400
Email: lmarshall@mail.win.org

**Thank You Sustaining Members for Supporting
the Midsouth Aquatic Plant Management Society**

ProSource One
Applied Biochemists
Cygnet Enterprises
Phoenix Environmental Care
Syngenta Crop Protection, Inc.
Aquaservices, Inc.
United Phosphorus, Inc.

Helena Chemical Company
SePRO Corporation
Alabama B.A.S.S. Federation Nation
Diversified Waterscapes Inc.
Aquarius Systems
Aquatic Restoration Services

Advertise your business here, the MSAPMS newsletter is sent out to over 100 individuals across the Midsouth representing research, applicators, and state and federal agencies.



Quality Products for Water Quality



1-800-558-5106
(VOICE MAIL EXT. 166)

HARRY KNIGHT	SURFACE WATER PRODUCTS DIVISION
Southern Regional Sales Manager	W175 N11163 Stonewood Drive Suite 234
14 Valerie Lane	Germantown, WI 53022
Cullman, AL 35058	FAX: (262) 255-4268
Phone: (256) 796-8704	www.appliedbiochemists.com
Fax: (256) 796-7021	
E-mail: harryknight@appliedbiochemists.com	



Craig Aguillard
Territory Manager

United Phosphorus, Inc.	Phone: 337-363-6032
3015 Tiger Lane	Fax: 337-363-1264
Ville Platte, LA 70586	Mobile: 337-290-1096
www.uniphos.com	Email: craig.aguillard@uniphos.com



Craig Smith
Territory Manager

13025 La Mirada Circle
Wellington, FL 33414
Phone: 561.301.8326
Fax: 561.793.6854
Craig.Smith@PhoenixEnvCare.com



Larry Hartmann
Aquatic Specialist

SePRO Corporation
318 Chaparral Trail
Blanco, TX 78606

Office: 830-833-1610
Voice/fax: 317-388-3313
E-mail: larryh@sepro.com

Mobile: 210-274-3626



TOLL FREE: 1-888-669-3337
PHONE: 256-582-9101
FAX: 256-582-0938

www.aquaservicesinc.com

specializing in aquatic weed control and lake restoration
23360 Hwy 431 • Guntersville, Alabama 35976



Greg J. Wall
Sales & Commercial Application
Industrial & Aquatics

P.O. Box 219
Sturgis, MS 39769
Bus. 662-465-6146
Fax. 662-465-8700
Eml. doublegobble@earthlink.net

HELENA CHEMICAL COMPANY
P.O. Box 626
Selma, AL 36702
Bus. 334-875-2737
Fax. 334-875-3814

 **Patrick Simmsgeiger**
PRESIDENT
www.dwiwater.com

Devoted to the
beautification of
aquatic environments

Phone: 888.394.9283
barbra@dwiwater.com

Featuring the
Formula F-series
line of Aquatic
Treatment Products

Diversified Waterscapes
INC.



Gregory Reynolds
Syngenta Professional Products

Syngenta Crop Protection, Inc.
10228 Meadow Crossing Drive
Tampa, FL 33647
Tel/Fax 813-907-6539
Cell 813-390-9284
www.syngenta.com
greg.reynolds@syngenta.com

 **BASF**
The Chemical Company

Victor (Vick) S. Nickels
Senior Pro/Vm Sales Specialist

BASF Corporation
1915 Barnwell Circle
Yazoo City, Mississippi 39194

Telephone (662) 746-9331
Mobile (662) 571-3259
Fax (662) 746-3573
E-mail - victor.nickels@basf.com
www.basf.com/usa

Cygnnet Enterprises, Inc.

132 PARCEL DR.
STATESVILLE, NC 28625

NEAL COULTER
Southern Region Manager
Aquatic Specialist

Office (704) 883-8833
(800) 661-7909
Fax (704) 883-0505

Web Page: www.cygnnetenterprises.com
Email: ncoulter@cygnnetenterprises.com



AQUATIC SPRAY APPLICATION AND HABITAT RESTORATION

Dan Prevost
Co-Owner

662-769-2440
dan@aquatic-restoration.com

www.aquatic-restoration.com

Calendar of Events

October 13-16, 2008
32nd Annual Florida Aquatic Plant Management Society
Training Conference
Daytona Beach, Florida
<http://www.fapms.org/meeting.html>

October 21-23, 2008
27th Annual Midsouth Aquatic Plant Management
Society Meeting
Mobile, Alabama
http://www.msapms.org/new/2008_meeting/2008%20Meeting%20Home%20Page.htm

10th Annual Northeast Aquatic Plant Management
Society Meeting
Saratoga Springs, New York
<http://www.neapms.net/>

March 1-4, 2009
29th Annual Midwest Aquatic Plant Management
Society Meeting
Location to be announced
<http://www.mapms.org/MAPMSConf2009.html>

March 29-April 1, 2009
28th Annual Western Aquatic Plant Management
Society Meeting
Honolulu, HI

February 9-12, 2009
Joint WSSA and SWSS Annual Meeting
Orlando, Florida
<http://www.wssa.net/Meetings/WSSAAnnual/Info.htm>

MidSouth APMS Newsletter

Ryan Wersal
GeoResources Institute
Mississippi State University
Box 9652
Mississippi State, MS 39762