



# The MidSouth Aquatic Plant Management Society

Volume 20 No. 2

May 2002

## NEWSLETTER

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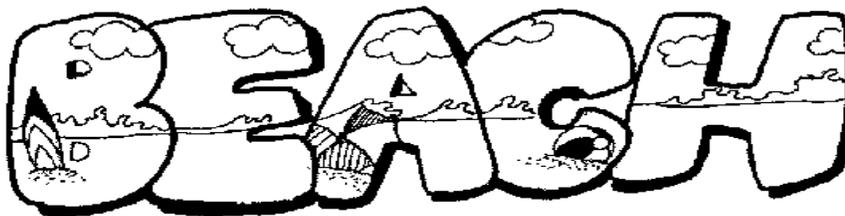
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# MSAPMS Annual Meeting

President-elect Tom Broadwell has announced that this year's MSAPMS annual meeting will be held at the **Gulf State Park Resort Hotel and Convention Center in Gulf Shores, AL from October 16-18, 2002**. The annual scholarship golf outing will be held on Thursday afternoon and will be sponsored/organized by Craig Aguillard (Cerexagri). For non-golfers we are getting a workshop together that will be announced in the next newsletter. A shrimp and crawdad boil (cooked by the famous Joe Z.) will be held at the Orange Beach Community Center Thursday night, cost \$10. Make your plans now to attend. Pre-registration (using the enclosed form) is encouraged to avoid a \$10 late fee.

**Room rates will be \$62.00/night, single or double occupancy. Make your reservations early by calling the hotel at 1-800-544-4853 or 251-948-4853. The rooms blocked for this meeting will be released on Oct. 2, 2002.**



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**\*\*\* 1<sup>st</sup> CALL FOR PAPERS \*\*\***

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Those interested in making a presentation at this year's meeting should contact Tom Broadwell at 404-799-2152, or send your name, address, affiliation, and title of your presentation to Tom using his US Postal or email address listed on the left side of this page.



The MSAPMS would like to thank all of our corporate sponsors and contributors. We encourage our members to use their services and expertise whenever possible.



**Corporate Sponsors:**

Applied Biochemists  
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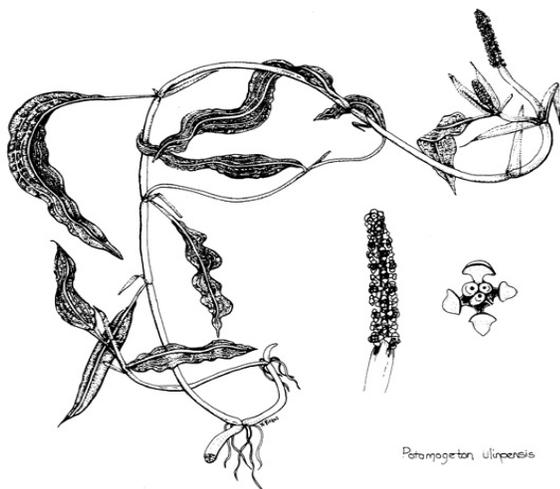


illustration provided by:  
IFAS, Center for Aquatic Plants  
University of Florida, Gainesville, 1993

**Aquatic Plant Management Society  
Announces Annual Student Paper  
Contest for Upcoming Meeting in  
Keystone Colorado**

The Aquatic Plant Management Society is soliciting student papers for the upcoming annual meeting to be held July 21-24, 2002 at the Keystone Resort in Keystone, CO. Presentations on the biology or ecology of aquatic plants, control methods (biological, chemical, mechanical, cultural), or restoration projects involving wetland or aquatic plants are solicited. Papers that emphasize nuisance algae control or ecology, the impact of aquatic plant management on fisheries, and the relationship between aquatic plant management and water quality are also

highly encouraged.

The APMS has a strong ethic of student support and all attendees will be provided free room and board at the Keystone Resort, waiver of registration fees, and banquet meals and functions. In addition, 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> place prize money will be awarded as well as copies of Sculthorpe's book "The Biology of Aquatic Plants". This meeting presents an opportunity for students to develop their presentation skills, learn about the field of aquatic plant management, meet with key government, university, and industry representatives, and meet peers with similar educational or professional interests.

For more information on the contest please contact by mail, phone, or e-mail.

Dr. Michael D. Netherland  
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Carmel, IN 46033  
317-580-8288  
miken@sepro.com

## Minutes from the Mid-Winter Board Meeting February 11, 2002 (Birmingham, Alabama)

The meeting was called to order at 10:05 AM by President David Franks. Attendees included Ken Weathers, Renee Beam, Tom Broadwell, Chris Greene, Wes Anderson, Joe Jernigan, and Don Morgan. The board thanked Alabama Power for their hospitality and use of the meeting room. The minutes from the October 24, 2001 board meeting were presented and David Franks made a clarification for out-of-pocket expenses. The minutes were revised to reflect this clarification. A motion was made to accept the minutes, seconded, and the minutes were accepted by voice vote.

### Financial Report

All invoices for the Plymouth Bluff meeting have been processed. Renee Beam presented the financial statement. Operating Fund: \$17,894.02 as of 1/31/2002; MSAPMS scholarship 13 Month CD: \$14,926.40; Alabama Power Scholarship 13 month CD: \$11,396.23. A motion was made to approve the financial report, seconded, and the financial report was accepted by voice vote. The archiving of historical records is proceeding. The idea of utilizing a professional money manager was discussed; however, the board decided not to pursue this idea.

### Annual Meeting

Tom Broadwell presented a potential location, meeting room costs, and options for the banquet meal for the fall meeting. A motion was made to accept Gulf Shores as the site for the fall meeting, the motion was seconded, and by voice vote the motion carried. There was discussion on the registration fee. A motion was made to increase the registration fee to \$40.00 for pre-registration (15 days in advance of the meeting) and \$50.00 for late registration and at the door. The motion was seconded and accepted by unanimous voice vote. The dates for the fall meeting will be October 16-18, 2002.

### Applicator Re-certification Points

Scott Lankford was invited to make a presentation on the status of applicator re-

certification points. Scott thoroughly discussed the process and stated that paperwork for the fall meeting had been processed. Scott further stated he was managing the applicator re-certification because of the heavy workload of the then combined Secretary/Treasurer position. The position of Secretary/Treasurer has since been divided into two positions (Secretary and Treasurer); therefore, it was decided that someone on the board should manage the applicator re-certification process. A review of the by-laws indicated this should be the responsibility of the Secretary. Scott presented the Secretary with the contact information and associated documentation.

### Nomination Report

President: Tom Broadwell  
President-elect: Eric Barkemeyer  
Secretary: Don Morgan  
Treasurer: Renee Beam  
Editor: Chris Greene  
New Directors: Greg Wall and Mike Maceina  
Returning Directors: Joe Jernigan and Wes Anderson

Renee Beam made a motion to accept the slate of nominations and Tom Broadwell seconded the motion. By unanimous voice vote, the motion was accepted.

### Other Business

The board will continue to use regular mail for the newsletter releases, until the website is up and running. The next newsletter is scheduled for May, 2002. The board wanted to recognize and encourage field personnel to support the corporate sponsors. No changes had occurred in the status of website at this time. R.I.S.E.—discussion occurred and the board decided to table the issue.

### Scholarship Report

No report. The board received a nice thank you letter for the society covering some of the out-of-pocket expenses for student presenters.

*Submitted by Don Morgan  
February 14, 2002*

## A NOTE to MSAPMS

Dear Mr. Franks (& MidSouth Chapter):

Thank you for the monetary gift for presenting at the MidSouth APMS meeting. It was a wonderful surprise and I appreciate it very much. I was just thankful to be able to give a talk about my project. Also, thank you for the information about the scholarship. I have talked to Dr. Miranda and I am in contact with Dr. David Bayne. Thanks again.

Sincerely,

Shelley McNamara  
(Mississippi State University)

*Note: Shelly presented "An Experiment to Reestablish Native Aquatic Plants at Lake Charlie Capps, Bolivar County, MS", co-authored by Dr. Eric Dibble, MSU at the October 2001 meeting at Plymouth Bluff Environmental Center on the Tenn-Tom Waterway.*

## NEWS

### **CYLINDROSPERMOPSIS: An Invasive Toxic Algae**

*Cylindrospermopsis* is considered a subtropical alga; originally identified from India in 1913 (Desikachary 1959). It thrives in high-nutrient, high-temperature, stable waters. It also does well in shallow, well-mixed, highly eutrophic reservoirs. In the last 10-15 years *Cylindrospermopsis* has been spreading throughout North America, particularly in the West and North. Similar patterns have been observed in Europe as well. Difficulties in identification and confusion with other miscellaneous blue-green algae filaments indicate that there are likely many more occurrences.

It's believed that *Cylindrospermopsis* first started appearing in Florida sometime in the last 30 years or so (Chapman and Schelske 1997). Since then, it has dominated several central Florida lakes to the extent that it grows almost as a single species bloom within the lake, often reaching amazing densities of hundreds of

thousands of cells per ml. These blooms can last for months on end and affect both recreational lakes and drinking water supplies. Bloom patterns in more Northern and Southwestern states are different, with very late summer blooms that are much more punctuated, often not appearing until August, September, or October, and lasting only a few weeks.

*Cylindrospermopsis raciborski* or "Cylindro" as some folks call it, is a toxic, filamentous blue-green alga. Unlike more common blue-greens, such as *Anabaena flos-aqua*, *A. circinalis* or *Microcystis aeruginosa*, *Cylindrospermopsis* is small and indistinct at first glance.

*Cylindrospermopsis* has several characteristics that also distinguish it from the other toxic blue-green algae. Unlike *Microcystis*, for instance, that produces generally one toxin type (microcystin, over 60 analogues), *Cylindrospermopsis* produces at least 3 distinct toxins. Cylindrospermopsin, anatoxin-a, and saxitoxin all can be highly toxic and in high enough doses, lethal to animals (cattle, alligators, and dogs seem to be the hardest hit) and humans. Although there have not been any documented human deaths from *Cylindrospermopsis*, there have been many serious hospitalizations. In 1979, almost 150 people, most of them children, had to be hospitalized for treatment of liver damage, after drinking water from a reservoir contaminated with *Cylindrospermopsis* on Palm Island in Australia (Chorus and Bartram 1999).

Drinking water treatment strategies are not always successful at removing toxins and treating with copper sulfate lyses cells and liberates toxin directly into the water, making treatment even more ineffective. The 1979 Australian event followed a reservoir-wide copper sulfate treatment.

Finally, most of the planktonic toxic blue-green algae form scums on the surface of the water. Not so for *Cylindrospermopsis*, which often stays well-distributed throughout the water column and has the highest concentrations below the surface. In fact, other than a deep green-brown color, it's often difficult to determine that a serious blue-green bloom is occurring at all.

*This section was taken (with permission) from specific portions of Ann St. Amand's article on*

*Cylindrospermopsis in the Spring 2002 edition of  
Lakline magazine.*

## MIDSOUTH AQUATIC PLANT MANAGEMENT SOCIETY



21<sup>st</sup> ANNUAL MEETING  
Gulf State Park Resort Hotel  
and Convention Center  
Gulf Shores, Alabama  
October 16-18, 2002

### PRE-REGISTRATION FORM

NAME:

WORK PHONE:

E-MAIL ADDRESS:

FAX:

AFFILIATION:

ADDRESS:

CITY, STATE, ZIP:

Registration:	Pre-registration	\$40	\$ _____
	Late Registration (at the door)*	\$50	
	Student	\$10	
2001-2002 Membership dues:	Regular	\$10	\$ _____
	Student	\$5	
	Sustaining	\$50	
Banquet Tickets:	Requested Quantity _____ x \$10/each		\$ _____
Raffle Tickets:	Requested Quantity _____ x \$1/each		\$ _____

\*All registrants (non-student) who do not pre-register or whose application is postmarked or faxed later than October 1, 2002 will incur a late fee of \$10.

- ✓ Make checks payable to: MidSouth APMS
- ✓ Pre-registration does not require pre-payment

**Return this completed form via mail or fax by October 1, 2002 to:**

**Renee Beam  
Dept. of Fisheries and Allied Aquacultures  
203 Swingle Hall**

**Auburn University, AL 36849**  
**FAX – (334) 844-0830**



**THE MIDSOUTH AQUATIC  
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