



Help needed and other information

I'm trying to find maps of woolei locations. Either as a composite or separate areas. It does not matter which.

I spoke at the Mid-South Aquatic Plant Management Society last month and there were indications the lyngbya is spreading as an unidentified mat. It would be my intention to combine sources and try to have one comprehensive map of current, known locations then go mining to find out where else it is.

All information appreciated very much.
BILL FRAZIER [bill.frazier@highpointnc.gov]

The Aquatic Plant Management Society, Inc. 47th Annual Meeting
July 15-18, 2007
Gaylord Opryland Resort & Convention Center
Nashville, Tennessee

South Carolina Aquatic Plant Management Society, 29th Annual Meeting
August 15-17, 2007
Springmaid Beach Resort
Myrtle Beach, South Carolina

South Carolina Aquatic Plant Management Society **N**ewsletter

C/O Steve T. Hoyle
NC State University
Campus Box 7620
Raleigh, N.C. 27695-7620



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South Carolina Aquatic Plant Management Society **N**ewsletter

Volume 28, Number 1

<http://www.scapms.org>

May, 2007



Message from the SCAPMS Board.

The 2006 annual meeting at Springmaid was a great success. The Local Arrangements Committee (primarily Chip Davis), did another outstanding job preparing for, and delivering on the Board's commitment to provide a great meeting for the SCAPMS membership. The Springmaid Beach Resort allows many opportunities not only for meeting attendees, but also to family members. We had over 109 participants at our meeting this year; if not a record, surely close to one. I would be delinquent in my responsibilities if I did not mention our sustaining members. Each year, our sustaining members, all 21 strong this year, "step up" to the plate and provide the necessary funds to put on an outstanding meeting. As members and as a Board, we should never take their contributions lightly, and always thank them at every opportunity.

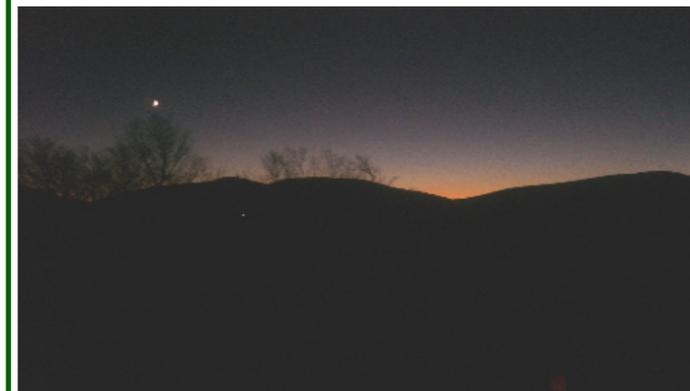


At our board meeting in late October, the Board, after considering several venues to host our 2007 annual meeting, voted to once again go back to Springmaid Beach. Let me say now, that this decision had nothing to do with the national college cheer leading competition occurring at the same time. A pure coincidence. The meeting will be held August 15-17, 2007. Please join us and bring a co worker, and your family. An upcoming newsletter will have more details. The SCAPMS Board is always open to any suggestions about the program or the meeting in general. Please feel free to contact any member of the Board with your suggestions. Thanks, and I look forward to seeing you at Springmaid Beach in August 2007.

Tommy Bowen—Vice President.

The Board and the membership at large, would again like to express their deepest sympathy to Tammy Lark, our President, on the sudden loss of her husband, Tommy. The SCAPMS membership is a family, and Tammy knows she can count on any one of us to help in any way we can. We love you, Tammy.

Another tragic loss this year was the passing of Robert Whiteford, the Duke Energy Lake Greenwood manager for over 25 years. Our thoughts and prayers are with Debbie, his wife, and his daughters, Robin and Carrie. Robert, we miss you greatly and love you dearly.



Inside this issue....

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- Student Winners
- New Nymphoides in SC
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- 2007 Scholarship
- New Newsletter
- Help Needed - Lyngbya maps

Final Rule on Aquatic Pesticides

[EPA and edits by RGB]
from - Robert G. (Bob) Bellinger, Ph.D.

On November 20 EPA issued a final rule clarifying two specific circumstances in which a Clean Water Act (CWA) permit is not required to apply pesticides to or around water. They are:

- 1) the application of pesticides directly to water in order to control pests; and
- 2) the application of pesticides to control pests that are present over or near water, where a portion of the pesticides will unavoidably be deposited to the water in order to target the pests.

The action puts into effect a rule that confirms EPA's past operating approach that pesticides legally registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) for application to or near aquatic environments, and legally applied to control pests at those sites, are not subject to NPDES permit requirements.

Clarifying when the CWA applies to pesticide use is critical because confusion over when a permit is required could hinder public health officials' efforts to prevent or respond to an infestation of mosquitoes that may carry the West Nile virus, or to control an invasive species that may damage valuable natural resources.

This rule will let those engaged in mosquito/vector control, and aquatic weed management to do their jobs more efficiently.

An overview of the rule, more information on it, and access to the final rule, other docs are at

National Pollutant Discharge Elimination System (NPDES)
http://cfpub.epa.gov/npdes/home.cfm?program_id=41#water_transfer



SCAPMS Member Honors

At the last (July) Aquatic Plant Management Council meeting Jack Whetstone was presented a certificate of appreciation for his many years of service to the public regarding the management of nuisance aquatic vegetation and for his many years of assistance to DNR's Aquatic Plant Management Program. Congratulation to Jack on this honor!



Our 2006 Member of the year was awarded to Chip Davis of Santee Cooper. Thanks to Chip and his hard work in the past and present, we have continued to have outstanding meetings. He has also worked to assist the Board and others with any job, any time. Thanks again to Chip for a job well done!



STUDENT WINNERS

The Phillip Fields Scholarship was awarded to Rebecca Haynie from Clemson University.

The Howard Roach Student Paper Award First Place winner was Alan Flemming from College of Charleston with a paper titled The Dark Mussel as a biomonitor for polycyclic aromatic hydrocarbons in stormwater retention ponds.

Second place ended in a tie and was presented to both Brad Garner, and Amanda West.

We also presented student paper awards to undergraduates, **First:** Rory Roten, NC State University, **Second:** Aimee Allen, **Third:** Sara True.

In 2006 the Society presented awards to 7 students totaling \$4300! Congratulations to all the winners and the SCAPMS members for making this possible!

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South Carolina
Aquatic Plant
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2007 Scholarship Award Applications

The South Carolina Aquatic Plant Management Society is seeking applications for its annual Phillip M. Fields Scholarship Award. The Society intends to award a \$3,000 scholarship to the successful applicant in the fall of 2007. Scholarship funds may be used by the recipient to cover costs associated with education and research expenses. Eligible applicants must be enrolled as full time undergraduate or graduate students in an accredited college or university in the United States. Course work or research in an area related to the biology, ecology or management of aquatic plants in the Southeast is also required.

Applications must be received no later than May 1, 2007 and will be evaluated on the basis of relevant test scores (ACT, SAT, GRE, etc.), high school and/or college grades, quality and relevance of course work or research, a proposed budget, information obtained from references, and other related considerations. Other factors being equal, preference will be given to applicants enrolled in Southeastern and South Carolina academic institutions. The successful applicant may be requested to present an oral report on research activities at the annual meeting of the Society.

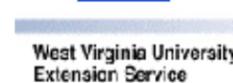
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SC Dept. of Natural Resources
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Rembert C. Dennis Bldg
Columbia, SC 29201
Phone (803) 734-9114
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Reminder:
It's not too
late for
2008!

The Mid-Atlantic Aquatic Plant Management Newsletter

A new electronic Newsletter is now ready for the Mid-Atlantic area, published at NCSU, this publication will attempt to provide more up to date information about Aquatic Plants and their management. Using information from a diverse group, it should help link these states together, working to solve local problems with a regional pool of experts. Currently the staff consists of Rob Richardson – Editor, NCSU; Lloyd Hipkins – Asst. Editor, VA Tech; Jack Whetstone – Asst. Editor, Clemson; Rakesh Chandren – WV Contributor, WVU; Ron Ritter – MD Contributor, Univ. of MD. As time and space allow students and other professionals may have the opportunity to contribute information.

For additional information or to register visit www.weedscience.ncsu.edu/aquaticweeds. In addition to on-line registration, past issues can also be accessed for this web site.



Hotel Accommodations and Reservations

The Society has reserved a block of rooms at Springmaid Beach for \$80.00 per night, plus 10% tax. Reservations at Springmaid Beach can be made by calling **1-800-770-6895** and remember to mention that you are with the **S.C. Aquatic Plant Management Society (SCAPMS)** to get your discounted room rate. Explore Springmaid Beach Resort and register online at www.springmaidbeach.com. **Reservations must be made prior to July 15, 2007 to get the discount rate.** **Full details can be found on our Web Site - www.scapms.org**

Springmaid Beach Conference Center is located on 3200 South Ocean Boulevard in Myrtle Beach adjacent to Myrtle Beach State Park. If you have any questions, contact Springmaid Beach at 800-770-6895.

Exhibits

The annual meeting offers the opportunity for the membership to view our commercial member's displays and talk to them about their products and services. The time spent talking to technical representatives, obtaining new efficacy and safety literature is fundamental to the professional development of our membership. All breaks and hospitality functions will be held in the exhibits area to promote a relaxing atmosphere for obtaining technical assistance from our commercial sustaining members.

Please call Larry McCord at (843) 761-4101 for further details.

Scholarship Golf Tournament

The 2007 SCAPMS Scholarship Golf Tournament will be held at one of the spectacular courses in Myrtle Beach. As the "Golf Capital" of the nation, Myrtle Beach boasts the most and many of the best golf courses in the country.

There will be awards for the longest drive and closest to the pin along with an award for the overall lowest score and overall highest score. All proceeds from the tournament will be donated to the SCAPMS scholarship fund. The cost of the tournament is only **\$40.00 per person** and will include a box lunch.

If interested in playing please contact Bo Burns at alan.burns@basf.com. Spaces are limited so please reserve a spot early.

2007 SCAPMS ANNUAL MEETING PRE-REGISTRATION FORM

Last Name: _____ First Name: _____

Organization: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Check one:

Regular Member: \$80 _____

Student Member: \$30 _____

Sustaining Member: \$250 _____
(Includes 1 Membership)

Complete form and mail with payment to:

Chris Page, Sec/Treasurer

2730 Fish Hatchery Road

West Columbia, SC 29171



Tickets for spouses or guests for the awards banquet are \$10.00. Number - _____ Total Paid \$ _____



"New Nymphoides" in Lake Marion

Eutawville, SC Larry McCord, Supervisor, Analytical & Biological Services Santee Cooper

An introduced and potentially invasive species of *Nymphoides* (Floating Heart) has been confirmed in the Santee Cooper system. *Nymphoides cristata* or Crested Floating Heart has established a sizable colony in a residential cove in the southern portion of Lake Marion. The cove, which is approximately 20 acres in size, is nearly 50% covered with this plant. The plant appears much more aggressive than the native *Nymphoides aquatica*, spreading more rapidly and establishing colonies in deeper, higher energy areas. Crested floating heart has a white flower with a distinctive crest (like a rooster's comb) down the center of the petals (see photo). The floating leaves are primarily green in color with some purple mottling, particularly in immature



leaves. The under surface of the leaves is purple in color with less prominent veins than those found in the native species. Control efforts have been initiated with less than desirable results. As is the case with many introduced aquatic plants, *Nymphoides cristata* likely was released from a backyard water garden, as it is a popular plant in the trade. According to Botanist Colette C. Jacono, with the US Geological Survey Center for Aquatic Resources Studies in Gainesville, "This is the first record of the crested floating-heart, *Nymphoides cristata* outside of Florida. The earliest Florida introductions occurred in the late 1990s at both natural cypress swamps and water management canals in the southeastern part of the state. Within a few years, large canal systems and suburban lakes in the central and eastern regions of the peninsula had become affected". For distribution and other information contact USGS at the following site: <http://nas.er.usgs.gov/taxgroup/plants/> for additional information about this and other *Nymphoides spp.* contact the University of Florida Center for Aquatic and Invasive Plants at www.aquat1.ifas.ufl.edu type in *Nymphoides* and search site.



Danny Johnson Retires from DNR

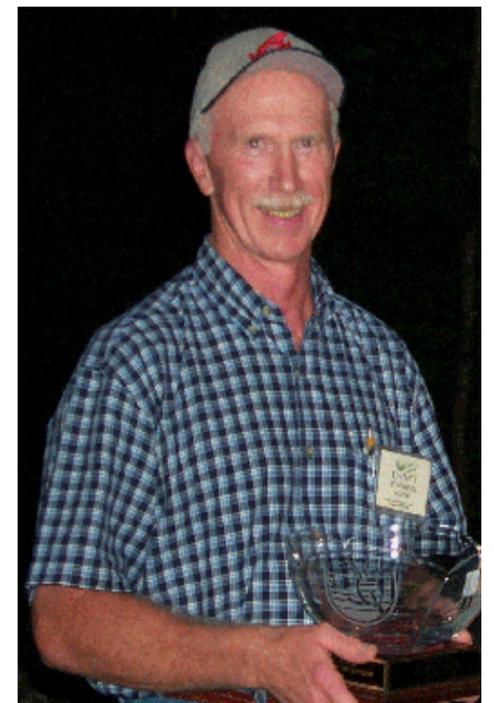
After 27 years of dedicated service at the South Carolina Department of Natural Resources, Danny Johnson has decided to retire to a life of leisure.

The aquatic plant management profession and the Society owes a lot to Danny. Danny assisted in drafting the Executive Order for Governor Dick Riley in 1980 that originally established the South Carolina Aquatic Plant Management Council and the statewide program to coordinate the management of nuisance aquatic vegetation in public waters.

Danny served as the first Chairman of the Aquatic Plant Management Council until 1985. He wrote the first Aquatic Plant Management Plan, which still serves as a model for the current plan. He served as SCAPMS's 6th President (1983-84), served as Editor, served as Director, chaired the Scholarship Committee, received the Member of the Year Award, and the Member of the Mill ennium Award in 2000.

As a further tribute to his dedication to the profession, he was recently elected to the SCAPMS Board of Directors for the second time...even though he's retired!

Thanks Danny for all that you've done for aquatic plant management in South Carolina. Congratulations on your retirement and we'll see you at the next Board meeting.





Yellow Floating Heart Becoming Invasive in NC

[Rob Richardson, NCSU](#)



Yellow floating heart, *Nymphoides peltata*, is becoming more prevalent (and more troublesome) in North Carolina. This plant has entered the water garden trade and is being released into ponds in the same way that parrotfeather and water hyacinth have been released previously. To date, 3 ponds in North Carolina have been infested and subsequently controlled after considerable effort. Glyphosate and Habitat may be used for yellow floating heart control, while 2,4-D, triclopyr, and other products have been ineffective. It may take up to 3 applications to eradicate this plant with glyphosate or Habitat. Repeated manual removal may also be effective on smaller sites, but fragmentation may spread the weed within larger bodies of water.

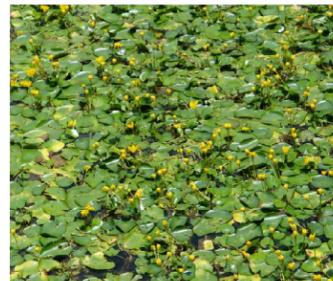
Individuals with water gardens and nurseries supplying these plants should be encouraged to properly dispose of unwanted plant material and never release these plants into the environment. These plants should also never change hands without the same warning given to the new owners. As water gardens continue to increase in popularity, public education is essential to prevent further invasions.



Biology and Identification of Yellow Floating Heart

[Amanda West, NCSU](#)

Yellow floating heart, also known as yellow water fringe, is native to Europe and Asia and is becoming a popular water garden plant in the U.S. Once established in ponds or shallow lakes, yellow floating heart forms a dense mat over the surface of the water displacing native plants and out competing them for nutrients and sunlight. Infestations may occur in water up to 4 meters deep and are so dense as to also impede fishing, swimming, and boating. Yellow floating heart is a perennial with 3 to 10 cm wide heart-shaped, green leaves that float on the water surface. Leaf margins are scalloped and undersides have a light purple tinge. Flowers have five yellow fringed petals rising above the water surface on stalks. Each stalk may produce up to 5 flowers. A 2.5 cm fruit bears many oval-shaped hairy seeds. Yellow floating heart reproduces by branched stolons just under the water surface, seeds, and fragmentation. It may be confused with spatterdock, which has distinctive ball-shaped flowers and elephant ear-shaped leaves, or watershield, a plant with slimy leaf bottoms.



Call for Papers

The Program Committee is accepting requests for presentations at the 2007 SCAPMS Annual Meeting. Papers covering all aspects of aquatic and wetland plant biology, use, and control will be considered. Student presentations are encouraged with possible cash prizes.

Submit - Title, author, organization, and address exactly as you want it to appear on the program. Two or three sentence abstracts are needed to ensure recertification credits for attendees. **Please reply on or before July 1, 2007.**

We are requesting that all persons using PowerPoint bring their presentations on CD. A laptop and projector will be provided. A slide carousel projector and overhead projector or VCR will be provided by request only.



Fifteen minutes will be allowed for presentations. Special requests for additional time or equipment should be directed to the Program Chairman. Those interested should contact the Vice President/Program Chairman:

Tommy W. Bowen, Duke Energy Carolinas — Lake Services, 13339 Hagers Ferry Rd. (MG03A3), Huntersville, NC 28078 twbowen@duke-energy.com Phone: (704) 875-5422

SCAPMS 29th Annual Meeting Schedule and Information

Wednesday, August 15, 2007

Springmaid Beach Conference Center

Board Meeting	10.00am - 11.00am	TBA
Registration	11:00am - 5:00pm	Conf. Center
Meeting	1:00pm - 5:00pm	Conf. Center
Hospitality	6.00pm - 10.00pm	Exhibits Area

Thursday, August 16, 2007

Springmaid Beach Conference Center

Registration	8:00am - 5:00pm
Meeting	8:30am - 12:00pm
Lunch	12:00pm - 1:00pm

Workshop 1:00pm - 4:00pm

Scholarship Golf Tournament 12:00pm - 6:00pm

Scholarship Fishing Tournament 1:00pm - 5:00pm, Springmaid Beach Pier (optional)

Stress Relief Session 6:00pm - 7:00pm

Awards Banquet 7:00pm - 10:00pm

Friday, August 17, 2007

Springmaid Beach Conference Center

Registration	8:00am - 12:00pm
Meeting	8:30am - 12:00pm
Adjournment	12:00pm

Meeting Registration

Registration fees for the meeting are \$80 for regular members, \$30 for students, and \$250 for sustaining members if paid prior to **July 30**. After the deadline and on the day of the meeting all registration fees will increase by \$20. The \$30 student fee will be waived for students giving papers.

The registration fee includes admission to the meeting, the hospitality gathering on the 15th, lunch, banquet and stress relief session on the 16th, all breaks, and 2007-2008 membership dues. Tickets for spouses or guests for the awards banquet are \$10.00.

Please complete the attached pre-registration form and mail it in with the appropriate registration fee to Chris Page, Sec/Tres. By pre-registering you save a little money (\$20) and help us in planning for the meals, breaks, and ice cold refreshments.

