



AQUATIC PLANT NEWS

A Newsletter of The Aquatic Plant Management Society, Inc.
P.O. Box 821265, Vicksburg, MS 39182-1265
Chetta Owens, Editor Issue Number 98 October 2011

Mission: "The Aquatic Plant Management Society, Inc., strives to promote environmental stewardship through operations, research, education and outreach related to integrated management of vegetation in aquatic systems"

Letter from the President - Tyler J. Koschnick

Read the label AND don't forget your NPDES permit

How time has flown by since the annual meeting. I have had the pleasure to travel to some of the Regional Chapter Annual Meetings. One thing is for certain when visiting with people – many are sitting on the edge of their seats. They are waiting, wondering, and wanting to know. NOI? General Permit? Threshold? What is all the noise other than implementation of one of the biggest national regulatory actions to ever hit the field of aquatic plant management?

When it comes to aquatic herbicide applications, people have been taught over and over again – read the label, the label is the law, and when used according to label poses no unreasonable risk to human health or the environment. Starting October 31st, 2011, applications of pesticides in, over or near waters of the U.S. will also be subject to additional regulation under the Clean Water Act (CWA). Depending on the scope and size of application, many people will now be required to obtain an NPDES (National Pollutant Discharge Elimination System) permit before conducting applications to control aquatic weeds. This is the result of a Court ruling that after a product is applied to water and causes its intended effects, there is a residue/waste remaining that should be classified as a pollutant

and subject to regulation under the Clean Water Act. This does not just involve aquatic herbicides (pesticides), but also biological pesticides that are added to water. Biological pesticides are also classified as pollutants because "Adding biological pesticides to water undeniably alters its biologic integrity" the Court ruled. So I ask this question, what "man-made" or "man-induced" action on a body of water does not alter the "...chemical, physical, biological, and radiological integrity of water"? What else will eventually fall under the jurisdiction of the Clean Water Act?

The Court vacated EPA's rule that stated NPDES permits were not required for aquatic pesticide applications. Although it has been hard to find many people that actually support this new regulation, there are many different opinions. Recently, an article was printed by the Environmental Law Institute entitled: Power, Politics, and Poison: *The Story Behind National Cotton Council of America v. U.S. EPA*. The article starts with "Pesticide manufacturers, formulators, distributors, sellers, and applicators are holding their breath in hopes that the 112th U.S. Congress will succumb to their long-sought wish to continue certain types of unchecked chemical applications throughout the United States". What? Unchecked chemical applications - that seems to be maybe a little bit misleading? What about state permit programs? What happened to the label being the law – it is a violation of federal law to use this product in a manner inconsistent with its labeling? Applicator certification programs and continuing

education programs – must be ineffective. What about lake management plans or state or regional Environmental Impact Statements – aquatic plant management is continuously being assessed? It triggers many thoughts. Do you think the authors of this have ever observed an aquatic herbicide application, or seen the benefit of invasive plant management? The point being, it is easy to defend a position, but there is always the other side of the argument.

H.R. 872 (the Reducing Regulatory Burdens Act of 2011), which is being referred to as “legislative fix”, passed the House of Representatives, passed out of Committee in the Senate, but had a hold put on it by two Senators. Thus, H.R. 872 is basically going nowhere unless those holds are lifted by Senators Cardin and Boxer. Recently, APMS co-signed a letter with the Association of American Pesticide Control Officials Inc., Association of State and Interstate Water Pollution Control Administrators, The National Association of State Departments of Agriculture, and National Association of State Foresters that was sent to the Senate Leadership urging them to take action on H.R. 872 to avoid duplicative pesticide permitting. The bill has still not been acted upon in the Senate, and by the time you read this article, you will likely need to seek an NPDES permit for pesticide applications to control aquatic weeds.

There have always been new regulations and challenges in aquatics. Aquatic plant management is a small and specialized field, and currently it seems to be overshadowed by much bigger players. However, people have always risen to the occasion and helped to educate and provide input to those that might not be as familiar with aquatic plant management. Hopefully, in the end, sound science will prevail and in turn lead to good policy decisions. I would encourage everyone to weigh in on the issue. Take the opportunity to comment or take the time to demonstrate the benefit of invasive plant management. If you are an applicator or lake manager, and haven't already done so, I would encourage you to visit with your local state(s) to determine how to comply with this new regulation. The majority of states individually have jurisdiction over the CWA.

you don't have coverage to apply a pesticide under a National Pollutant Discharge Elimination System permit. It's easy to forget that all of these NPDES requirements are the result of someone not following a pesticide label. If only that applicator would have followed the label, would we be facing these additional requirements? What is most confounding to me is how a permit under the Clean Water Act would have changed that outcome – it was already a violation of one federal regulation.



Salt Lake City, Utah Site of the 52nd APMS Annual Meeting

Mark your calendar, July 22 - 25, 2012, for the 52nd Annual Meeting of the Aquatic Plant Management Society. The Little America Hotel in downtown Salt Lake City will be the site for our annual meeting. Among Salt Lake City hotels, Little America stands apart as a superior choice and not just because it's one of Salt Lake's most luxurious four-diamond hotels. Just ten minutes from Salt Lake International Airport, this hotel is an ideal base from which to explore Salt Lake City and Utah.

Salt Lake City hosts a flourishing nightlife with over 350 nightclubs, a vibrant artistic and cultural scene, numerous museums, and sidewalks safe enough to stroll long after dark. The Little America can serve as your ideal “base camp” for your outdoor adventures with five National Parks and sixteen National Monuments and Recreation Areas in the area.

As in 2011, a 2½ day format will be used for the meeting. **The technical program will begin Monday morning and end around noon on Wednesday.** Our meeting will kick off with the President's Reception on Sunday evening. As the official welcoming event of the meeting, this reception is an excellent time to reacquaint with old

friends, meet new friends, and just relax and enjoy great food and beverage. The Monday evening Poster Session and Reception presents a great opportunity to examine posters and exhibits while enjoying great food and beverage. The APMS Awards Banquet on Tuesday evening will be another memorable event where we will recognize those who have served and contributed to our Society, welcome new officers and directors, and present student paper and other awards.

The Meeting Planning Committee is planning exciting and entertaining events for relaxing and visiting with friends and colleagues. The Program Committee promises a diverse and interesting program with excellent oral and poster presentations on aquatic plant research and management. In addition, useful information on available aquatic plant management products and professional services will be provided in the exhibits room throughout the meeting.

This will be a wonderful meeting, so bring your family as well. Mark your calendar to attend the meeting, July 22 - 25, 2012, and plan to explore all Salt Lake City and Utah has to offer. More meeting information will be coming soon to the APMS Website at www.apms.org and future newsletters.

Non-Student Poster Winner In Baltimore, MD

LeeAnn Glomski (ERDC-Lewisville Aquatic Ecosystem Research Facility) was the winner of APMS Non-Student poster contest. The title of her poster was "Development of a small-scale primary screening method to determine potential impacts to the protox inhibiting herbicides Flumioxazin and Carfentrazone-ethyl on native and non-native submersed plants." Congratulations!

Have You Checked the APMS Member Directory Lately?

We need your help to update the mailing and E-mail addresses and phone numbers in our on-line Membership Directory. To do this, go to the APMS website at www.apms.org and click on "Member

Directory." This member only feature can be accessed by typing:

Username = apms
Password = duckweed

Username and password are case sensitive (no caps). Please check your personal data and send any changes to the Webmaster, Dave Petty at dpetty@ndrsite.com.

APMS Promotional Information Available

The APMS has revised its two tabletop displays and posters, suitable for presentation at conferences and stakeholder meetings. Also available are tri-fold membership brochures and a newly completed eight-page color booklet with additional information about the APMS programs and initiatives. You may borrow the display for your next conference and obtain copies of the brochure and booklet by contacting the APMS Secretary or President whose contact information is on the APMS website at www.apms.org.

APMS Archives Now On Website Dave Petty

There's been a coordinated effort this year to sort out and scan the Society's historical archives. There's still work to be done, but the items of interest to the membership are now on the website.

Most of these items can be found by using the "Archives" button on the site's main menu. You can find past directories, most of the past newsletters, and programs and abstracts for many of the meetings.

Additionally, in the issues of the Hyacinth Control Journal and earlier volumes of the Journal of Aquatic Plant Management there often appeared brief articles that were non-research in nature. These include various lists of plants, chemicals, membership lists, and meeting minutes. You can find these by looking through the tables of content found under the "JAPM Online" button under "Journal".

We ask that anyone who may have items that we are missing to please get in touch with either Dave Petty or Jeff Schardt, so that we can get a copy for our collection.

David Petty
Webmaster

Invasive plant student videos now online!

The Osceola County Extension Office and the University of Florida/IFAS Center for Aquatic and Invasive Plants (CAIP) are pleased to announce the debut of their **Invasive Plant Student Video Challenge** project. Over 250 students were challenged to create short videos on topics relating to hydrilla, hygrophila and other invasive aquatic plants infesting area lakes and ponds.

After learning about the impacts invasive aquatic plants are having on freshwater habitats in Osceola County, students were challenged to write, act and film their own short stories as part of their science studies during the school year. Coordination of the project and editing support was provided by faculty and staff from the Osceola County Extension Office and the University of Florida/IFAS Center for Aquatic and Invasive Plants.

The student videos are being used to help spread awareness about invasive aquatic plants that threaten Florida's waters and cause economic hardship. They can be viewed at <http://plants.ifas.ufl.edu/osceola/challenge>, the UF/IFAS Invasive Plant YouTube channel, <http://www.youtube.com/user/UFInvasivePlantsEDU> and the event is also posted on Facebook™ (search for UF Center for Aquatic and Invasive Plants – Education Initiative). Video story plots, written and acted out by the students, range from invasive plant invasions on an airplane flight to pond-side adventures of local anglers and/or citizens unwittingly emptying invasive plants from their aquariums.

The project is an outreach component of Osceola County's Demonstration Project on Hydrilla and Hygrophila in the Upper Kissimmee Chain of Lakes. Thanks to a \$2.881 million grant from the U.S. Environmental Protection Agency, Osceola

County is conducting a Demonstration Project which seeks to find new solutions for managing hydrilla and hygrophila. For more information, please contact the Osceola County Extension Office at (321) 697-3000.



Caption: Students from Ms. Maggie McAndrew's 2009/2010 4th grade Science Club at Koa Elementary School created a video about rescuing native plants from the aquatic weed, hydrilla.



Caption: Students from Ms. Judy McDonald's 2009/2010 8th grade class at Narcoossee Middle School created a video about controlling the aquatic weed, hydrilla on infested lakes.



Caption: Students from Ms. Judy McDonald's 2009/2010 8th grade class at Narcoossee Middle School created a video about skiing on lakes infested with the aquatic weed, water hyacinth.

Aquatic Plant Management Society is now on LinkedIn!

John D. Madsen

The Aquatic Plant Management Society now has an online group through the social network LinkedIn, which is at <http://www.linkedin.com>. LinkedIn is a social network for professionals which emphasize developing a professional network of business colleagues. The APMS group has a discussion board, jobs board, and membership list. Opened by the Membership committee and moderated by the current chair, it is open to all individuals interested in aquatic plant management issues. So long as the discussions remain polite, all membership and postings will be open.

Of the more than 60 current members of this group, less than half are members of the national APMS. Our goal is to use this tool to encourage membership in the national and regional APMS and involvement at conferences.

To create an account on LinkedIn, go to <http://www.linkedin.com> or use the LinkedIn link under Social Networks on the APMS webpage. Once you have an account on LinkedIn, search for the Aquatic Plant Management Society group under the Groups Directory in LinkedIn.

Come join the discussion!

Student Field Trip- Baltimore, MD

By Rebecca Haynie

Thanks to our volunteers, sponsors, and an awesome group of students, the 2011 student tour was a huge success! Eight students from six universities participated in the event- an APMS record! We left the city behind and spent a picture-perfect afternoon in beautiful Northeast Maryland on the Chesapeake Bay. Our tour was led by Maryland Department of Natural Resources biologists Mark Lewandowski, Brooke Landry and Lee Karrh. We loaded up on dive boats and our fearless guides took us out onto the Susquehanna Flats, a world-famous fishing and birding destination which boasts a teeming aquatic plant community. We spent several hours snorkeling while trying to find and identify all 12 species of

aquatic plants that thrive in the shallow flats. Sunburned and hungry, we then descended on Woody's Crabhouse, a local favorite, for ice cold beers and famous Maryland crabs! We wrapped up the tour at Elk Neck State Park, located on the Elk Neck Peninsula at the northern end of the Bay where we spent the night in rustic cabins- a far cry from the Baltimore Hyatt but with a much better view!

We would like to thank APMS for sponsoring this amazing event and extend our gratitude to Mark Lewandowski for helping to coordinate the tour! The student affairs committee has already begun planning the 2012 Salt Lake City Tour and we're looking forward to visiting some interesting sites in this area. For more information on the student tour or student affairs please contact Dr. Rebecca Haynie at hayniers@uga.edu.



Numerous APMS Awards Given in Baltimore

Honorary Member: Dr. Carole Lembi



Dr. Carole Lembi was the 2011 recipient of the APMS Honorary Member Award. After 39 years at Purdue University, Dr. Carole Lembi retired from the Botany and Plant Pathology Department on December 31, 2010. Her career as professor of botany and weed science centered primarily on research with teaching responsibilities, but she also served an important role in extension education; spreading the word about aquatic plant management, nuisance algae, and weed science principles throughout the state of Indiana and the entire Midwest.

Dr. Lembi began her career at Purdue University as a postdoctoral assistant and joined the Department of Botany and Plant Pathology faculty in 1971. She taught several different courses over the years including Advanced Weed Science, Principles of Plant Classification, Introduction to Plant Science and others, but her mainstay courses were Aquatic Botany and Aquatic Plant Management. Dr. Lembi was named Outstanding Teacher in the College of Agriculture at Purdue University in 1997 and is included in Purdue's Book of Great Teachers.

Dr. Lembi has been actively involved with several national and regional societies throughout her career. She has been a member of the Aquatic Plant Management Society since 1972 and served on the APMS Board of Directors from 1987-1990. She was also one of the founding members of the Midwest APMS Chapter. She served as Editor of the *Journal of Phycology* for eight years and is a

“life member” in the Phycological Society of America for her contributions to that Society.

We commend Dr. Lembi for her dedicated service to the field of the aquatic plant management, the APMS and other professional scientific organizations, and the numerous students she has taught and mentored over the years.

T. Wayne Miller Distinguished Service Award: Dr. Michael Netherland



Dr. Michael Netherland received the T. Wayne Miller Distinguished Service Award for his many outstanding contributions to the APMS. Most notable, was Mike's tenure as Editor of the *Journal of Aquatic Plant Management*. For the past six years, Mike has spent countless hours maintaining the flow of articles and reviews and improving overall journal content and format. During his time on the APMS Board of Directors, Netherland also served as Chair of the Publications Committee and completed several short-term projects such as assisting in the development of the APMS definition of “control.” He has also served as the Chair of the Student Affairs Committee and most recently was nominated as the APMS representative on the Weed Science Society of America's Committee on herbicide resistance. Dr. Netherland is a leader in aquatic plant management research, particularly on the issues of herbicide use and herbicide resistance management. He received the APMS Outstanding Research/Technical Contributor Award in 2010. The APMS sincerely appreciates Mike's many significant contributions to the Society over the years, particularly as JAPM Editor.

Outstanding Research/Technical Contributor Award: Dr. Kurt Getsinger



Dr. Kurt Getsinger was the recipient of the 2011 Outstanding Research/Technical Contributor Award. The nomination was specific for his technical achievement in the area of perfecting the application of aquatic herbicides for the control Eurasian watermilfoil and other invasive aquatic weeds in Lake Pend Oreille, Idaho and Noxon Rapids and Cabinet Gorge reservoirs in Montana. Dr. Getsinger developed and implemented studies to investigate herbicide dissipation rates in these flowing water environments and provided new operational guidance to meet herbicide concentration and exposure time requirements needed for effective weed control. Dr. Getsinger is also a past president (1997) of the APMS and has served the Society in numerous capacities over the years.

APMS Outstanding Graduate Student: Mr. Joe Vassios



Joe Vassios received the APMS Outstanding Graduate Student Award for 2011. Joe is a graduate student in Weed Science at Colorado State University. His research focus is herbicide translocation and metabolism in Eurasian watermilfoil and hydrilla. Joe will complete his Ph.D. in December, 2011.

Joe is active in APMS and the Western chapter of APMS and is also an active member of the Weed Science Society of America and the Western Weed Science Society. He has attended multiple APMS meetings over the last five years, presenting in countless student paper and poster contests. He is a three-time winner of the Barbara H. Mullin Memorial Scholarship as presented by the Western APMS. He recently served as the Student Representative on the APMS Board of Directors and assisted with the Student Affairs Committee. His major advisor, Dr. Scott Nissen, describes Joe as an “excellent graduate student and a true team player always willing to help with other research projects and assist his fellow graduate students. Joe has a real aptitude for applied research and does an excellent job presenting his research to various audiences.”

New Student Representative-Justin Nawrocki (NCSU)

Justin Says of himself:

I was born and raised in Grand Rapids, Michigan and then went on to get my B.S degree in Environmental Science from the University of Idaho. I then worked for several years as a licensed applicator in Michigan and North Carolina. I was then given the chance to peruse my master's degree at North Carolina State University under Dr. Richardson. My degree was completed this year and the main focus of my research was monoecious hydrilla tuber response to management. I will be staying on with Dr. Richardson for my PhD and my research will be assessing the effectiveness of establishing native plant species in monoecious hydrilla infested Piedmont reservoirs and how this may affect the relative habitat use by sport fish.

WSSA UNDERGRADUATE RESEARCH AWARD – 2012

The Weed Science Society of America (WSSA) has developed an Undergraduate Student Research Grant designed to encourage and involve exceptional undergraduates in agricultural research. Interested faculty members are encouraged to identify potential award candidates and discuss the possibility of sponsoring a research project. Awards may be used as a stipend, for research budget expenses (travel, supplies, etc.), to defer fees, to defray living expenses for summer research, or any combination of these items.

AWARD: Up to \$1000 for support of undergraduate research to be conducted over a minimum of one quarter/semester during 2012. This award may be used to defray the cost of research supplies or as a stipend. Support of a faculty sponsor is required. Awards will be made to the student, to be administered by the faculty sponsor's department.

APPLICANT: The applicant is an undergraduate student with a strong interest in Weed Science. Students majoring in all related disciplines may apply.

TO APPLY: Applicants should prepare a 2-3 page research proposal including name, address, phone number, E-mail address, title, objective, experimental approach, discussion, budget and references. The discussion section of the proposal should describe the expected results and their possible significance to Weed Science. The student should provide a cover letter in which general academic and career goals are discussed. A copy of the student's academic transcripts must also be provided.

FACULTY SPONSOR: Any faculty member who is actively engaged in Weed Science research is qualified to be a sponsor. The faculty sponsor should review the research proposal with special attention to the budget; the distribution of funds should be approved by both the student and sponsor. In addition, the sponsor should provide a letter of reference including a statement of his/her willingness to supervise the proposed research and to provide any needed space, equipment and supplies above those requested in the proposal. The sponsor is encouraged to assist the student in presenting his/her results at a regional Weed Science Meeting.

HOW TO APPLY: The completed proposal, academic transcripts, cover letter and faculty letter of support should be forwarded to: Dr. John Jachetta, Dow AgroSciences, 9330 Zionsville Road, Indianapolis, IN 46268-1054; Phone: (317) 337-4686, Fax (317) 337-4649, E-mail: jjjachetta@dow.com. Proposals should be received no later than November 11, 2011. Funding decisions will be made by January 27, 2012 and presented at the 2012 WSSA National Meeting Awards Ceremony.

ANNOUNCEMENT
BOTANIST GS-0430-11/12
National Fish Hatchery and Technology Center, San Marcos, TX

The San Marcos National Fish Hatchery and Technology Center (Center), San Marcos, TX, provides applied fishery and aquatic research and development capabilities to the U.S. Fish and Wildlife Service. With an annual operation budget of approximately \$1 million (base and soft monies) and a current staff of nine, the Center's applied research programs assist restoration and recovery efforts through the scientific development and evaluation of new methods, concepts, systems, and approaches. The Center currently maintains active applied research programs in the fields of Physiology and Ecology of fish, amphibians, aquatic invertebrates, and aquatic plants.

The employee in this position coordinates and provides technical guidance for the aquatic plant activities for the Center and the Uvalde National Fish Hatchery, Uvalde, Texas. Activities include: managing the Texas wild rice refugium; obtaining funds, planning, conducting, and publishing the results of scientific investigations associated with Texas wild rice and other aquatic plant propagation, native aquatic plant restoration, aquatic plant population dynamics in the wild, and aquatic invasive species control and management; and participates in Center's educational and outreach programs.

MAJOR DUTIES

TEXAS WILD RICE REFUGIUM - Responsible for design, establishment, and coordination of Texas wild rice refugium activities at two facilities (San Marcos NFHTC and Uvalde NFH). Assists in the updating and execution of the San Marcos and Comal Springs Recovery Plan. Assists in the development and execution of the Contingency, Captive Propagation, and Reintroduction plan for Texas wild rice. Develops long range plan to produce genetically sound propagated Texas wild rice to be used for possible restoration efforts. Develops "standard operating procedures for Texas wild rice propagation." Participates in the acquisition and reporting requirements of Federal and state permits regulating Texas wild rice activities.

AQUATIC PLANT RESTORATION AND RESEARCH – Assists in stream restoration projects. Responsibilities include developing and maintaining partnerships; proposing, justifying, and obtaining funds; initiating, carrying out, and guiding projects to completion; and developing new technologies for research, propagation, and restoration projects.

TO APPLY FOR POSITION

R2-11-542065-CI-MP (Status Applicants):

http://jobview.usajobs.gov/GetJob.aspx?JobID=102762011&JobTitle=Botanist&lid=609&rad_units=miles&brd=3876&pp=25&sort=rv%2c-dtex&jbf522=0430&jbf574=IN15&jbf785=&vw=b&re=134&FedEmp=Y&FedPub=Y&caller=advanced.aspx&AVSDM=2011-09-27+14%3a07%3a00

R2-11-542225-CI-DEU (General Public Applicants):

http://jobview.usajobs.gov/GetJob.aspx?JobID=102762006&JobTitle=Botanist&lid=609&rad_units=miles&brd=3876&pp=25&sort=rv%2c-dtex&jbf522=0430&jbf574=IN15&jbf785=&vw=b&re=134&FedEmp=N&FedPub=Y&caller=advanced.aspx&AVSDM=2011-09-27+14%3a07%3a00

FOR ADDITIONAL INFORMATION CONTACT

Tom Brandt, 512-353-0011 ext 224, tom_brandt@fws.gov

2012 APMS Officers, Directors, Committee Chairs and Special Representatives

Office

<u>Office</u>	<u>Name</u>	<u>Telephone</u>	<u>E-mail</u>
President	Tyler Koschnick	(440) 665-2748	tylerk@sepro.com
Immediate Past President	Linda Nelson	(601) 634-2656	Linda.S.Nelson@usace.army.mil
President Elect	Terry Goldsby	(256) 582-9101	terryg@aquaservicesinc.com
Vice President	Michael D. Netherland	(352) 392-0335	mdnether@ifas.ufl.edu
Treasurer	Sherry Whitaker	(601) 634-2990	Sherry.L.Whitaker@usace.army.mil
Editor	Rob Richardson	(919) 515-5653	rob_richardson@ncsu.edu
Secretary	Jeff Schardt	(850) 245-2815	Jeff.Schardt@MyFWC.com
Director	Craig Aguillard	(337) 290-1096	caquillard@estesinc.com
Director	Cody Gray	(954) 562-0254	cody.gray@uniphos.com
Director	Alan "Bo" Burns	(919) 844-5375	bo.burns@cpsagu.com
Director	Susan Wilde	(706) 542-3346	swilde@warnell.uga.edu
Director	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Director	John Gardner	(954)977-7736	jwg@aquaticsystems.com
Student Representative	Justin Nawrocki	(970) 491-7746	jfnawrocki@gmail.com

Committee

<u>Committee</u>	<u>Chair</u>	<u>Telephone</u>	<u>E-mail</u>
Awards	Don Doggett	(239) 848-6774	doggett@lchcd.org
Bylaws and Resolutions	Jim Schmidt	(800) 558-5106; x305	jimschmidt@appliedbiochemists.com
Education and Outreach	Susan Wilde	(706) 542-3346	swilde@warnell.uga.edu
Exhibits	LeeAnn Glomski	(972) 436-2215	leeann@laerf.org
Finance	Richard Hinterman	(810) 744-0540	cygnetent@aol.com
Legislative	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Meeting Planning	Bob Gunkel	(601) 634-3722	robert.c.gunkel@usace.army.mil
Meeting Planning	Tommy Bowen	(704) 875-5422	tommy.bowen@duke-energy.com
Membership	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Nominating	Greg MacDonald	(352) 392-1811	pineacre@ufl.edu
Past President's Advisory Program	Greg MacDonald	(352) 392-1811	pineacre@ufl.edu
Publications	Tyler Koschnick	(440) 665-2748	tylerk@sepro.com
Regional Chapters	Rob Richardson	(919) 515-5653	rob_richardson@ncsu.edu
Scholastic Endowment	Terry Goldsby	(256) 582-9101	terryg@aquaservicesinc.com
Strategic Planning	John Gardner	(954) 977-7736	jwg@aquaticsystems.com
Student Affairs	John Rodgers, Jr.	(864) 656-0492	jrodger@clemson.edu
Web Site	Rebecca Haynie	(843) 991-8069	hayniers@uga.edu
	Ryan Wersal	(662) 325-4595	rwersal@gri.msstate.edu

Special Representatives

AERF Representative	Carlton Layne	(678) 773-1364	layn1111@bellsouth.net
B.A.S.S. Representative	Gerald Adrian	(610) 594-1948	gerald.adrian@uniphos.com
C.A.S.T. Representative	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
N.A.L.M.S. Representative	Michael D. Netherland	(352) 392-0335	mdnether@ifas.ufl.edu
R.I.S.E. Representative	Joe Bondra	(810) 744-0540	joebondra@sbcglobal.net
W.S.S.A. Representative	Cody Gray	(719) 886 4708	cody.gray@uniphos.com
APMS Web Master	David Petty	(317) 838-7383	dpetty@ndrsite.com
Director of Science Policy	Lee Van Wychen	(202) 408-5388	lee.vanwychen@wssa.net

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Special thanks to LeeAnn Glomski for review, assistance and guidance on this newsletter!



**Salt Lake City, UT
2012 APMS Conference Site**

**Visit the APMS WEB SITE
www.apms.org**

**For members only features: username = apms
password = duckweed**