



# Aquatic Plant News

A Newsletter of The Aquatic Plant Management Society, Inc.

P.O. Box 821265, Vicksburg, MS 39182-1265

LeeAnn Glomski, Editor

Issue 104

October 2013

## President's Message

Thank you to everyone who made the 53<sup>rd</sup> Annual Meeting in San Antonio such a success. As Program Chair I listened to every talk and was delighted by the quality of the presentations as well as the strong attendance for all of the sessions. Our sponsors stepped up yet again to insure that we put on a quality Conference for both delegates and guests. We held this meeting in conjunction with the Texas APMS and we thank them for their strong showing. A special thanks to Matt Ward and Kellie Duffie for their efforts in coordinating the TAPMS session. We see great benefit in holding our Annual Meeting in conjunction with the Regional Chapters and plan to hold the upcoming APMS Meeting in Savannah, GA in conjunction with the MidSouth APMS.

This meeting was somewhat bittersweet for me as I was the only person from the US Army ERDC approved to attend the meeting. Unfortunately, this trend of reduced public agency involvement in Conferences is something that both the APMS and Regional Chapters may be facing for the foreseeable future. I have worked closely with Dr. Kurt Getsinger (APMS President 1997) and Dr. Linda Nelson (APMS President 2011) for the bulk of my career and their absence from this meeting was definitely noted.

We recognized two new Honorary Members during the Awards Banquet and I think both Richard Hinterman and Don Doggett serve as great role models for other members of the APMS. While both have had long and distinguished careers in the discipline of aquatic plant management (Don on the public side and Richard on the private side), they have put in a great deal of personal time to improve the financial health and inner workings of this Society. While Richard and Don served as President of the APMS in 2003 and 2007 respectively, they continued to remain engaged in the APMS when their terms ended. I believe that having members committed to long-term service is critical to the function of a Society. This is something we need to cultivate and recognize those members whose efforts go above and beyond the norm.

The APMS Board of Directors says thank you to outgoing members Dr. John Madsen and Craig Aguillard and welcome to new Directors Dr. Rebecca Haynie and Dr. Vernon Vandiver. Our newly elected Editor, Dr. Jay Ferrell is working with former Editor and current Vice President Dr. Rob Richardson, and the Associate Editors to improve the processes associated with submission, review, publication, and distribution for the Journal of Aquatic Plant Management. We are committed to insuring the Journal is on time and that we reward good papers via timely review and acceptance. I also want to express a special thank you to Past President Terry Goldsby and I will look forward to his advice as I thought he was a very good consensus builder as President.

## President's Message - continued

In terms of ongoing initiatives, Dr. Cody Gray (APMS President Elect) has been tasked by the WSSA to come up with an herbicide resistance module for the discipline of aquatic plant management. We have several members working on this document and look to have a draft ready for comment early in the New Year. While I don't want to sound self-serving, I believe the APMS should continue to look for ways to support the ERDC Aquatic Plant Control Research Program. Sustaining and supporting a federally funded program that focuses on aquatic plant management research should be axiomatic for a professional society that focuses on aquatic plant management.

The APMS will be awarding another two year Graduate Student Research Grant this year. This is our largest financial commitment and we ask the Regional Chapters for their continuing support in this endeavor. As we all think about the cost:benefit of this commitment, I would ask the membership to consider the following. This award has gone to six different Universities and it has helped a number of young faculty and students become established in both the discipline of aquatic plant management and in leadership roles in this society. For example, students who have benefited from the award such as Dr. Ryan Wersal and Dr. Rebecca Haynie are now pursuing careers in APM and dedicating their time to both the national and regional chapters. When one thinks in terms of this funding providing the impetus for a 30+year career in APM with service to the APMS, I feel the benefits become self evident.

I look forward to my role as President of the APMS and greatly appreciate the trust the Society has placed in my leadership.

Dr. Michael Netherland

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## 2013 Sustaining Members

Alligare, LLC  
 Applied Aquatic Management, Inc  
 Applied Biochemists<sup>®</sup>, A Lonza Business  
 Aqua Services, Inc.  
 AquaTechnex, LLC  
 Aquatic Control, Inc.  
 BioSonics, Inc.  
 Brewer International  
 Clarke Aquatic Services  
 Crop Production Services, Inc.  
 Cygnet Enterprises, Inc.  
 SePRO Corporation  
 Syngenta Professional Products  
 United Phosphorus, Inc.  
 Valent Professional Products  
 Vertex Water Features

## EPA Proposes Rule to Modernize Clean Water Act Reporting

E-reporting initiative will increase efficiency, ease burden for states and improve public access to data

WASHINGTON – The U.S. Environmental Protection Agency (EPA) has proposed a rule that would modernize Clean Water Act (CWA) reporting processes for hundreds of thousands of municipalities, industries, and other facilities by converting to an electronic data reporting system. The proposed e-reporting rule would make facility-specific information, such as inspection and enforcement history, pollutant monitoring results, and other data required by permits accessible to the public through EPA's website.

EPA estimates that, once the rule is fully implemented, the 46 states and the Virgin Island Territory that are authorized to administer the National Pollutant Discharge Elimination System (NPDES) program will collectively save approximately \$29 million each year as a result of switching from paper to electronic reporting.

"In addition to dramatically cutting costs for states and other regulatory authorities, the e-reporting rule will substantially expand transparency by making it easier for everyone to quickly access critical data on pollution that may be affecting communities," said Cynthia Giles, assistant administrator for EPA's Office of Enforcement and Compliance Assurance. "The e-reporting rule will also allow states and other regulatory authorities to focus limited resources on the most serious water quality problems, which will lead to increased compliance, improved water quality, and a level playing field for the regulated community." Currently, facilities subject to reporting requirements submit data in paper form to states and other regulatory authorities, where the information must be manually entered into data systems. Through the e-reporting rule, these facilities will electronically report their data directly to the appropriate regulatory authority. EPA expects that the e-reporting rule will lead to more comprehensive and complete data on pollution sources, quicker availability of the data for use, and increased accessibility and transparency of the data to the public.

The CWA requires that municipal, industrial or commercial facilities that discharge wastewater directly into waters of the United States obtain a permit. The NPDES program requires that permitted facilities monitor and report data on pollutant discharges and take other actions to ensure discharges do not affect human health or the environment.

Most facilities subject to reporting requirements will be required to start submitting data electronically one year following the effective date of the final rule. Facilities with limited access to the Internet will have the option of one additional year to come into compliance with the new rule. EPA will work closely with states to provide support to develop or enhance state electronic reporting capabilities.

EPA has already scheduled several webinars in an effort to help states, trade organizations, and other interested parties better understand the details and requirements of the proposed rule. Over the next few months, EPA expects to schedule additional webinar sessions.

The proposed rule will be available for review and public comment for 90 days following the publication date in the Federal Register.

View the proposed rule in the Federal Register: <https://www.federalregister.gov/articles/2013/07/30/2013-17551/npdes-electronic-reporting-rule>

## WSSA Graduate Student Travel Award 2014

The Weed Science Society of America is offering up to (6) Annual Meeting Grants to qualifying graduate student members for their first attendance at the WSSA annual meeting. These grants will provide for annual meeting registration fees as well as up to four nights lodging while at the meeting. Students and/or their graduate advisor are responsible for all remaining costs incurred to attend the WSSA annual meeting, including travel and meals.

This travel grant program is intended to encourage graduate student involvement in the WSSA annual meeting while students are in their early portion of their graduate program. Therefore, this grant is limited to students who have not yet attended a WSSA annual meeting. Students not in traditional weed science graduate programs are encouraged to apply for these travel grants. The WSSA professional Development Committee will screen applicants based on a written application, details listed below. Names of awardees will be announced at the WSSA awards ceremony.

### Application Requirements:

1. Applicant must be a graduate student in good standing from an accredited institution with an interest in weed science and a desire to become a contributing member of the WSSA and the WSSA annual meeting.
2. Applicants must have written support from a faculty member at their current university.
3. The applicant must be willing to work at the 2014 WSSA annual meeting in a responsible and professional manner as directed in a designated area and/or with a designated responsibility for a portion of the WSSA annual meeting. Work responsibilities may include assisting with session operations, supporting the registration desk, poster session set-up or teardown, or other related duties involved in the operations of the WSSA annual meeting.

### Application Materials: PDF files or Word files only

1. Name
2. Address and full name of the Institution of graduate studies.
3. Beginning date of the student's current graduate degree program
4. A brief description the student's current research activities
5. Current GPA
6. Anticipated date of graduation and degree to be conferred.
7. Provide the title and abstract for any presentations planned for WSSA, 2014.
8. Applicant's objectives from attending WSSA, 2014. 300 words or less
9. Letter of support from the applicant's supporting faculty member. The letter should address the applicant's reason for participation in the WSSA, 2014 annual meeting and the likelihood that the applicant's goals while at the 2014 WSSA annual meeting can be met. The letter of support should be no more than 300 words.

Application should be submitted by the graduate student as an email attachment.

PDF files or Word files only via email to Chad Brommer ([chad.brommer@basf.com](mailto:chad.brommer@basf.com)) by October 31st, 2013.

## NAISN Begins to Track Invasive Species Costs and Information in Canada and U.S.

The North American Invasive Species Network (NAISN) will begin to annually track invasive species data from the provinces and states of Canada and the United States and publish the results of this data request on its website found at <http://www.naisn.org>. A future NAISN survey will target Mexico's provincial invasive species management activities costs and information.

### Why is NAISN tracking these costs and information on invasive species?

There has been considerable debate about the amount of resources devoted to invasive species activities within the provinces and states of Canada and the United States concerning invasive species found on public conservation lands and waterways. As of now, no federal agencies within these countries have comprehensively tracked these costs over time. Similar to the way the U.S. Centers for Disease Control and Prevention (CDC) tracks information regarding disease prevalence/incidence, NAISN will begin to annually track invasive species data from the provinces and states of Canada and the United States and publish these results on its website found at <http://www.naisn.org>.

As part of this effort, NAISN is gathering specific information on the costs and resources devoted to invasive species activities on public conservation lands and waterways in terms of prevention and early detection efforts, invasive species control operations, monitoring and surveillance activities, present invasive species research efforts, and education and outreach.

It is hoped this information will be useful as a tool for the states and provinces to use to develop and justify budgets and determine the level of funding changes necessary to achieve a positive change in overall invasive species management activities that will lower the environmental and economic impact of invasive non-native species in Canada and United States.

The North American Invasive Species Network (NAISN), a 501(c)3 non-profit science-based organization, was formed in 2010 by university and government scientists across North America. Presently, the network is comprised of eight hubs: the Center for Aquatic and Invasive Plants (University of Florida), the Center for Invasive Species and Ecosystem Health (University of Georgia), the Center for Invasive Species Management (Montana State University), the National Commission for Knowledge and Use of Biodiversity (Mexico), the Geosystems Research Institute (Mississippi State University), the Invasive Species Centre (Ontario, Canada), the Invasive Species Research Institute (Algoma University), and the National Institute of Invasive Species Science (Colorado State University).

We encourage you to visit [www.naisn.org](http://www.naisn.org), and share your work and data with us. Please email suggestions or feedback to [NAISN.coordinator@gmail.com](mailto:NAISN.coordinator@gmail.com)

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## Native vs. Non-Native Species and Management Webinar

Webinar debate where two "Invasion Biology" leading scientists, [Dr. Mark Davis](#) (author of *Invasion Biology*, 2009) and Dr. Daniel Simberloff ([UT-Knoxville Institute for Biological Invasions](#) Director) will discuss when, if and how conservation biologists and managers should deal with non-native species. - [Watch now](#).

## UNL Offers Online Course—Invasive Plants: Impacts on Ecosystems

Are you interested in more than just how to **control** invasive plants? Have you had questions about where invasive plants occur and how they are impacting the most pristine to the most degraded ecosystems? Maybe you just want to know what an invasive plant is. If so, then you need to sign up for the all new course entitled, "Invasive Plants: Impacts on Ecosystems". In this 15-week course offered through the University of Nebraska-Lincoln, you'll learn how invasive plants in arid climates are affecting hydrological cycles, the changes below-ground caused by invasive plants, the legacies of invasive plants, and much more.

The format of this 3-credit course is similar to other college-level courses, except that the all of the instruction, materials, and activities are located online. You can participate from anywhere to hear the pre-recorded lectures, and be involved in the discussion board and complete the problem sets and other various assignments. To put all of your new found knowledge to use, an optional final project on several topics including land manager interviews, invasive plant spotlights, and creating an educational program will be available.

For any professional, researcher, student, or instructor working or teaching in the fields of conservation or land management, this course is for you. No other course is going to teach you the 'why' and 'how' relating to the establishment of invasive plants in terrestrial ecosystems. Find out more by contacting Dr. Steve Young ([steve.young@unl.edu](mailto:steve.young@unl.edu)) or downloading a [brochure](#). The next course begins January 2014. Sign up today!

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## EPA Approves the Use of Arundo Donax for Biofuel Production

EPA has finalized pathways for production of renewable fuel from giant reed (*Arundo donax*) and napier grass (*Pennisetum purpureum*) as feedstocks. These pathways are for cellulosic biofuel, for purposes of the Renewable Fuel Standard. In response to comments on the proposal concerning the potential for these crops to behave as invasive species, EPA has adopted additional registration, recordkeeping, and reporting requirements.

The fact sheet on the supplemental final rule can be found [here](#) and the final rule [here](#).

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## The APMS Blog has moved to the newly redesigned APMS website.

The APMS Blog aggregates aquatic plant management news items from around the country to help better inform the membership on current APM issues at a regional and nationwide scale.

The e-mail address for contributing news to the APMS blog is [apmsblog@gmail.com](mailto:apmsblog@gmail.com)

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## The Aquatic Plant Management Society on LinkedIn

The APMS group has a discussion board, jobs board, and membership list and 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. Search for the Aquatic Plant Management Society group under the Groups Directory in LinkedIn. <http://www.linkedin.com>

## Midwest Invasive Species Information Network App

The MISIN smartphone app (iPhone) provides a mobile solution for the capture of invasive species field observation data. You can play an important role in the early detection and rapid response to new invasive threats in your area by contributing invasive species observations to the MISIN database.

More information on this free app can be found [here](#).

## WSSA Pesticide Stewardship Series

WSSA has released the Pesticide Stewardship Series. Click on the topic of interest for more information.

1. [Safety begins at the point of sale](#)
2. [The pesticide buyer has important responsibilities](#)
3. [Hiring a pest management professional](#)
4. [The importance of reading the pesticide label](#)
5. [Restricted use pesticides require an extra level of care](#)
6. [Certification program fulfills an essential need for competent pesticide applicators](#)
7. [Always be diligent concerning personal protective equipment](#)
8. [Employers Play a Central Role in Protecting Agricultural Workers and Pesticide Handlers](#)
9. [Preparation and Oversight are Vital When Storing a Pesticide](#)
10. [The Applicator Must Ensure that Pesticide Spray Drift Does No Harm](#) **NEW!**
11. [Proper Disposal of Pesticides Extends Far Beyond the Container](#) **NEW!**

## APMS Promotional Information Available

The APMS has two tabletop displays and posters, suitable for presentation at conferences and stakeholder meetings. Also available are tri-fold membership brochures and an 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 one of the following:

Jeff Schardt: (850) 617-9420 or [jeff.schardt@myfwc.com](mailto:jeff.schardt@myfwc.com)

Mike Netherland: (352) 392-0335 or [mdnether@ufl.edu](mailto:mdnether@ufl.edu)



## National Stakeholder Team Creates Initiative to Strengthen U.S. Pesticide Safety Education

The Weed Science Society of America today announced that the National Stakeholder Team for Pesticide Safety Education Program Funding has created a three-year initiative to enhance the education of pesticide applicators.

The U.S. Pesticide Safety Education Program (PSEP) has faced a variety of [funding challenges](#) in recent years, which resulted in the [formation of the National Stakeholder Team](#) last fall. WSSA is a member of this diverse team, which includes representatives from government, extension, industry, professional societies and universities.

“The Team continues to evaluate a broad range of options for strengthening PSEPs throughout the United States,” notes Charles Moses, Co-Lead of the National Stakeholder Team, representing the Association of American Pesticide Control Officials. “This initiative is one important product of the Team’s work and is now being implemented by a separate Board.”

Goals of the initiative include:

- Establishing a national website for training materials
- Creating more online distance education classes
- Compiling, updating and producing training materials for the national website
- Focusing appropriate time on pesticide safety in certification and recertification classes
- Increasing collaborative efforts among states to fill training material gaps
- Pursuing additional direct and indirect sustainable support for PSEPs at the state level

Initial funding for the initiative has been provided by BASF Corporation, Bayer CropScience, Dow AgroSciences, DuPont Crop Protection and Syngenta, and will be distributed by CropLife Foundation at the direction of the Board.

The Board currently includes representatives from the American Association of Pesticide Safety Educators, the Association of American Pesticide Control Officials, the Association of Structural Pest Control Regulatory Officials, the Cooperative Extension Service, CropLife America, Dow AgroSciences, DuPont Crop Protection, Syngenta, the U.S. Department of Agriculture Office of Pest Management Policy and the U.S. Environmental Protection Agency.

“The National Stakeholder Team, state regulatory agencies, university administrations and others will also have key support roles, where appropriate, to assist PSEPs in meeting the goals of the initiative,” says Robert Magee, Board Co-Chair and Regional Stewardship Manager, North America, DuPont Crop Protection. “Strong Pesticide Safety Education Programs throughout the U.S. benefit us all.”

WSSA Press Release: [www.wssa.net](http://www.wssa.net).



## Student Participation at 2013 Meeting

Rebecca Haynie, Chair

We had outstanding participation at this year's national meeting with nine student presenters (four new and five returning), from five different Universities: NC State, UGA, University of North Texas, TAMU, Mississippi State, and Durango Institute of Technology, Durango, Mexico.

Each student presenter received complimentary registration, APMS membership, and lodging. In addition, each student presenter received a textbook of his/her choice. SePRO hosted a student luncheon on Monday that all students attended. West Bishop spoke to the students about the importance of students in the APMS organization and how he has benefited from involvement with the society. Elizabeth Edgerton, Texas A&M, was elected by her peers to serve as the 2013 Student Director. Outgoing Student Director, Casey Williams, did an exceptional job.

Thanks to our wonderful volunteer judges, we were able to award cash prizes to the deserving winners of the Student Paper and Student Poster Competitions. It was, as always, a close race! The winners were:

### *Student Poster Competition*

1<sup>st</sup> place Kristi Woodard, University of North Texas

2<sup>nd</sup> place Elizabeth Edgerton, Texas A&M

### *Student Paper Competition*

1<sup>st</sup> place Sarah True Meadows, NC State

2<sup>nd</sup> Bradley Sartain, Mississippi State

3<sup>rd</sup> Brett Hartis, NC State



All students were invited to participate in a local APM tour, planned and led by Casey Williams. The students visited Comal Springs in New Braunfels. Comal Springs, the largest in Texas, feeds clear spring runs that are home to several endangered species. Afterwards, the students toured the San Marcos National Fish Hatchery. The hatchery is a designated refugia where endangered species from San Marcos and Comal Springs are held in captivity for breeding purposes. It is also a site for aquatic plant research and propagation for restoration activities along the San Marcos and Comal Rivers. Following lunch, the group went to the Aquarena Center and went on a glass bottom boat tour at San Marcos Springs. The Aquarena Center is located at the beginning of the San Marcos River and is home to eight endangered or threatened species. The students wrapped up the tour with an afternoon of tubing and snorkeling on the San Marcos River before returning to San Antonio.



We look forward to seeing all the students, and some new faces, at chapter meetings and at next year's national meeting in beautiful Savannah, Georgia!

## New Student Director

Howdy!

My name is Elizabeth and I am the new Student Director for APMS. I am currently a graduate student in Wildlife and Fisheries Sciences at Texas A&M University, where I am pursuing my Master of Science degree. I am also a research assistant at Texas Water Resources Institute. My research focuses on developing a risk assessment model, for the state of Texas, for identifying potential invasive species, as well as prioritizing existing invasive species for management. I earned my bachelor's degree in Environmental Studies in 2010 from Baylor University; upon receiving my degree, I went to work for the Texas Commission on Environmental Quality, with a focus in air quality. However, I realized that my interests did not lie in air quality, and soon found myself beginning my master's program at Texas A&M with Dr. Michael Masser. I am relatively new to the aquatic plant world however, one year in to my program I can say that I truly enjoy the work that I am doing.



Leadership and service are two things that I have been passionate about since I was young. In high school I was a Lieutenant Governor in the Texas-Oklahoma District of Key Club, a community service organization. My job was to work alongside the six schools in my region to develop and implement new service activities within their communities, help them with any issues, and be the liaison between the district's Executive Board and the schools. In college, I was the President and equine veterinary technician for the Baylor Riding Association, a non-profit student-led organization that taught riding and horsemanship to riders of all levels. Both experiences taught me leadership and planning skills that I will surely put to good use during my time and the Student Director for APMS. I am looking forward to the next year with the Society and to seeing everyone in Savannah in July!

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## Congratulations to this Year's Award Winners!

Honorary Membership: Richard Hinterman and Don Doggett

T. Wayne Miller Distinguished Service Award: John Madsen

Outstanding Graduate Student Award: Sarah True Meadows

Exhibitor's Excellence Award: Contour Innovations

President's Award: Carlton Layne

Outstanding Research and/or Technical Contributor Award: Mark Heilman

Outstanding International Contribution Award: Deborah Hofstra

## Photos from the 2013 Meeting







## Calendar of Events

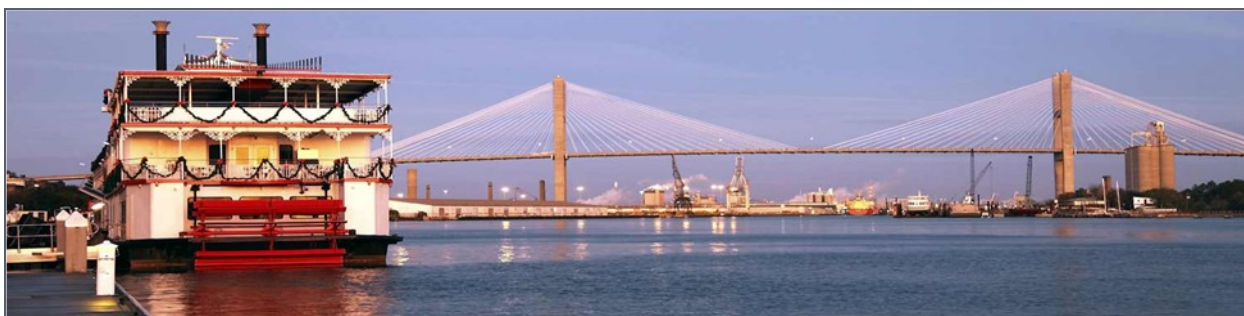
### 2013

- Oct 14-17 [Florida Aquatic Plant Management Society](#); St. Augustine, FL
- Oct 16-18 [South Carolina Aquatic Plant Management Society](#); Myrtle Beach, SC
- Oct 28-31 [North American Invasive Species Management Association](#); Jackson Hole, WY
- Oct 30-Nov 1 [North American Lake Management Society](#); San Diego, CA

### 2014

- Jan 21-23 [Northeast Aquatic Plant Management Society](#); Westbrook, CT
- Mar 2-6 [Midwest Aquatic Plant Management Society](#); Lombard, IL
- May 18-22 [Joint Aquatic Sciences Meeting](#); Portland, OR

## You've Gotta Come to Savannah, Georgia Site of the 54<sup>th</sup> APMS Annual Meeting



Mark your calendar, July 13-16, 2014, for the 54<sup>th</sup> Annual Meeting of the Aquatic Plant Management Society. Built in 1890 on the site of Oglethorpe's Barracks, the original DeSoto Hotel was Savannah's haven of hospitality and gathering place for celebrities, dignitaries, and presidents. Setting the bar for Savannah's tradition of gracious service, the Hilton Savannah DeSoto, our host hotel, continues as one of the Savannah Historic District's landmark hotels, providing an unmatched atmosphere for leisure and business travelers. Walk to exciting attractions like River Street, City Market, Forsyth Park, Historic Savannah Theater, Savannah Civic Center and Savannah College of Art & Design.

The Meeting Planning Committee is planning exciting and entertaining events for relaxing, visiting, and chatting with friends and colleagues. The Program Committee pledges a diverse and educational program of oral and poster presentations on aquatic plant research and management. Bring your students!

So mark your calendar to attend this extraordinary meeting. More meeting information will be coming soon to the APMS website at [www.apms.org](http://www.apms.org) and in future newsletters.

Still aren't convinced? Watch this YouTube video. [http://youtu.be/ykh\\_C4Rx7-U](http://youtu.be/ykh_C4Rx7-U)

## 2013-2014 APMS Officers, Directors, Committee Chairs and Special Representatives

<u>Office</u>	<u>Name</u>	<u>Telephone</u>	<u>E-mail</u>
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Strategic Planning	John Gardner	(954) 977-7736	john.gardner@aquaticsystems.com
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	Ryan Wersal	(678) 624-5891	ryan.wersal@lonza.com

### Special Representative

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N.A.L.M.S. Representative	Terry McNabb	(360) 527-1271	tmcnabb@aquatechnex.com
R.I.S.E. Representative	Joe Bondra	(810) 744-0540	joebondra@sbcglobal.net
W.S.S.A. Representative	Cody Gray	(954) 562-0254	cody.gray@uniphos.com
Director of Science Policy	Lee Van Wychen	(202) 746-4686	lee.vanwychen@wssa.net



## ***Mission***

The **Aquatic Plant Management Society (APMS)** strives to promote environmental stewardship through scientific innovation and development of technology related to integrated plant management in aquatic and riparian systems.

**We're on the Web!**

<http://apms.org/>