I hope this newsletter finds everyone well and you’ve enjoyed your summer. The elk are singing and the aspens are turning that beautiful golden yellow. If you’re like me, this time of year finds your workload starting to wind down and it’s time to start using some of those vacation hours banked over the busy summer season. It’s also time to reflect on some of the problems encountered over the busy treatment season.

One issue we’re all hearing more about in the aquatic industry is herbicide resistance. With a limited number of active ingredients registered for use in the aquatics industry, we are all faced with a unique challenge. In terrestrial weed control, often three to four, or more products, are available for species control with multiple modes of action. Unfortunately, this isn’t the case in aquatics. The WSSA and APMS have assumed the task of providing a guideline for the aquatics industry. The goal is to have a document that gives aquatic plant managers guidance to prevent herbicide resistance, especially to invasive aquatic weeds in the U.S. The APMS has put together a set of modules with an accompanying white paper to address herbicide resistance in the aquatics arena. You will find more information regarding the modules in this Newsletter.

A non-native species is getting more attention especially in the southeast and Mid-Atlantic States. Crested floating-heart (Nymphoides cristata) was first reported in 1996 in Collier County, Florida. It is now present in many Florida water bodies. Large infestations can also be found in Lake Marion, an 110,000 acre reservoir in South Carolina. In 2006, the population in Lake Marion was reported to be approximately 20 acres, growing to over 6,000 acres as of October 2012. In August, a pond was reported in North Carolina with an infestation of crested floating-heart making it the first confirmed location in North Carolina.

Recently, I received an email from an Oregon State University professor asking about control measures for yellow floating-heart (N. peltata). Apparently, the Oregon Department of Agriculture has found a pond infested with this non-native species.

The new discovery of crested floating-heart in North Carolina and yellow floating-heart in Oregon prove that the floating-heart species are definitely on the move. Much of this can likely be attributed to the aquarium industry, so keep an eye out for our newest invasive species that seem to be moving to a location near you.

We had a record number of student participants at the recent APMS meeting in Savannah. There were 20 student presenters representing 11 different Universities across the United States and Canada, which is outstanding! The APMS has put forth
**President’s Message Continued....**

a concerted effort to increase our student involvement and the hard work is certainly being rewarded.

Finally, I’m excited to announce that a second APMS Graduate Student Research Grant will be awarded by the APMS. The Board of Directors approved the formation of the second research grant at the July meeting. Please see the announcement in the following pages for submission guidelines.

I’m looking forward to another fun and educational meeting of the APMS in Myrtle Beach, SC from July 12-15, 2015. The meeting this year will be a joint meeting with the South Carolina APMS chapter. Please make a special effort to attend. I look forward to seeing everyone there.

Sincerely,

[Signature]

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**Let’s Go To the Beach, Myrtle Beach - Site of the 55th APMS annual meeting**

Plan to attend the 55th annual meeting of the Aquatic Plant Management Society July 12-15, 2015 at the beautiful Hilton Myrtle Beach Oceanfront Resort in North Myrtle Beach, South Carolina. Set in an ideal location at the north end of Myrtle Beach, the Hilton Myrtle Beach Resort on the Grand Strand is the perfect place to stay when visiting South Carolina. The contemporary guest rooms at this Myrtle Beach oceanfront resort have private balconies offering spectacular views of the ocean. The Resort on the Grand Strand is minutes from many attractions, such as Broadway at the Beach, Myrtle Beach House of Blues, and Tanger Outlet Mall. Guests have access to all Kingston Plantation Resort amenities, including Splash! Waterpark, resort pools, and the Sport and Health Club, which offers an indoor pool, modern exercise equipment, tennis, and a variety of aerobics classes.

The Meeting Planning Committee is planning exciting and entertaining events for relaxing, visiting, and chatting with friends and colleagues. As usual, the Program Committee will offer a diverse and educational program of oral and poster presentations on aquatic plant research and management. We should have plenty of students participating which is always a highlight of the meeting.

So mark your calendar to attend this extraordinary meeting. Bring your family. More meeting information will be coming soon to the APMS website at www.apms.org and in future newsletters.

Oh, did I mention out the back door is the Beach. WOW.
Aquatic Plant News

**New Training Modules on Herbicide Resistance Now Available from the Weed Science Society of America**

Today the Weed Science Society of America (WSSA) announced the availability of three new education modules on herbicide resistance in weeds, available free online at [www.wssa.net/resistance](http://www.wssa.net/resistance).

WSSA scientists say a significant contributing factor in the evolution of herbicide resistance is the repeated use of a single chemical in the absence of other control methods. To stress the vital importance of a more varied, integrated approach, the society adopted a comprehensive, multiyear initiative focused on education. The first training materials were launched in 2011, beginning with a module on herbicide resistance in agronomic crops. The newest additions to WSSA’s online training resources address other environments where herbicide resistance management is imperative.

- **Aquatic:** WSSA partnered with the Aquatic Plant Management Society (APMS) to develop educational materials on herbicide resistance in lakes, waterways and other aquatic environments. Three online lessons describe aquatic plant control, herbicide selection and effective ways to manage specific scenarios. A free white paper developed by APMS on herbicide resistance stewardship is also available for download. “All of the herbicides registered by the EPA over the past decade for aquatic use have shown the potential for resistance when used on land-based weeds,” says Cody Gray, APMS representative to WSSA. “It is imperative that we take effective steps now to avoid future resistance problems in aquatic environments.”

- **Noncrop:** Plant and soil scientists from Mississippi State University and the University of Kentucky led the development of a training module on the herbicide resistance issues that impact weed control in forests, along roadways and railways, and across rangelands and other noncrop environments. Five lessons are included – from best management practices to the current status of weeds already resistant to herbicides.

- **Turf:** Scientists from 10 universities across the U.S. and Canada teamed with industry experts to develop materials on resistance issues in turf. Five lessons address how herbicides work, the development of herbicide resistance, the current status of resistant weeds, how to scout for and confirm resistance, and effective, integrated approaches to weed management.

In addition to free educational materials, WSSA’s website provides links to a wide variety of resources on herbicide resistance from both WSSA and other organizations.

WSSA sponsored a September 10 summit in Washington, D.C., hosted by the National Research Council at the Auditorium in the National Academy of Sciences Building on Constitution Avenue. The event focused on the devastating threat of herbicide resistance to agricultural productivity. Anyone interested is invited to attend. Details are available at [www.wssa.net/resistance](http://www.wssa.net/resistance).

“We firmly believe knowledge is power,” says David Shaw, Ph.D., past president of WSSA and chair of the organization’s Herbicide Resistance Education Committee. “When farmers, land managers, aquatic managers and others involved in weed management have a better understanding of herbicide resistance and how to manage it, they can make smarter choices and take proactive steps to delay or mitigate the evolution of herbicide-resistant weeds.”
APMS/ AERF Social Media – Are YOU Missing Out!!!

Got downtime in the airport, time between meetings, or just need your daily social media fix? Why spend all your time looking at your friend’s 1,000+ pictures of their cat when you could be getting caught up on the latest and greatest in aquatic plant science and management? The Aquatic Plant Management Society and Aquatic Ecosystem Restoration can BOTH be found on your favorite social media outlets including Facebook, Twitter, LinkedIn, and more! AERF can be found on Facebook, featuring daily news posts, event updates, and even contests! Check them out on humpday for “What is it Wednesday?”, where you can guess and win! Just search “Aquatic Ecosystem Restoration Foundation” in the search box. Looking for news snippets, job opportunities, and an arena for discussion? Then join the Aquatic Plant Management Society group on LinkedIn! Don’t worry if you are short for time. You can check out the AERF and APMS twitter pages for quick blurbs on what’s going on around the APM scene. If you are looking for even more, then check out the APMS and AERF blogs! The APMS blog features cutting edge research, journal article reviews, and historical perspectives while the AERF blog highlights careers in aquatic plant management, showcases upcoming events, and reviews various applications in aquatic plant management. The APMS blog can be found by visiting www.apms.org and clicking the “Blog” box in the upper right corner. The AERF blog can be accessed by visiting www.aquatics.org and clicking the “B” box in the upper right corner. Like what you’re seeing? You can subscribe to each blog and have them sent directly to your email!

For more information on APMS and AERF social media, or to have your work featured via our many outlets, contact Dr. Brett Hartis at bmhartis@ncsu.edu.

Benefits of Controlling Nuisance Aquatic Plants and Algae in the United States

The Council for Agricultural Science and Technology’s (CAST) new Commentary was rolled out on Wednesday, July 16, at the Aquatic Plant Management Society’s annual meeting in Savannah, Georgia. Dr. John Rodgers of Clemson University provided a well-received presentation about the pertinent aspects of the paper.

Safe, accessible water resources are essential, but various threats are closing the taps. A growing problem comes from nuisance aquatic plants that invade rivers, lakes, and other aquatic ecosystems. They can affect aesthetics, drainage, fishing, water quality, fish and wildlife habitat, flood control, human and animal health, hydropower generation, irrigation, navigation, recreation, and, ultimately, land values.

Led by Kurt Getsinger (Chair), the authors of this Commentary emphasize the necessity for the skillful management of nuisance aquatic plants—they hope regulators, managers, stakeholders, and legislators gain scientific insights about this important issue. Using specific examples, detailed explanations of the situation, and an extensive literature review, the paper thoroughly examines the negative impacts of nuisance plants and the need to be aware, informed, and--when possible--proactive about the problems.

For the complete CAST Commentary, go to: http://www.cast-science.org/download.cfm?PublicationID=282524&File=1030aa96c911b0e51e9b6b1c1c3a7f464a28TR
Student Participation at 2014 Meeting

Rebecca Haynie, Chair

We had 20 student presenters, 15 of whom had never presented at an APMS meeting before, from eleven different Universities: North Carolina State, University of Florida, University of Georgia, East Carolina, Texas A&M, Grand Valley State, Trent University (Ontario), Colorado State, Clemson, and University of Western Illinois. Leif Willey and Chris Mudge did a great job recruiting students to get our numbers up to 20!

Each student presenter received complimentary student rooms and a textbook of his/her choice. SePRO Corporation sponsored the student luncheon on Monday. Sarah True Meadows, EPA Herbicide Registration division, and former APMS student participant was our guest speaker. Chris Mudge gave opening remarks. Ms. Emily Schroder and Ms. Beth Benbow, biologists in EPA’s Herbicide Registration division, also attended the luncheon and general sessions, courtesy of AERF.

Erika Haug, NC State University, was elected by her peers to serve on the Board as the 2014-2015 Student Director. Outgoing Student Director, Elizabeth Edgerton, Texas A&M, did an exceptional job!

We owe a special thank you to the judges for our student presentation competition. Poster judges were: Jamie Morgan, Joe Lucovich, Lyn Gettys, Ray Valley, and Joe Vassios. Paper judges were: Brett Bultemeir, Ken Manuel, Chris Mudge, Ben Willis, Sarah Meadows. The contest winners were awarded cash prizes. This continues to be a very serious yet fun competition for our students!

Poster Contest:
1st Place, Kallie Kessler, Colorado State
2nd Place, Jay VonBank, University of Western Illinois
3rd Place, Haley Wofel, Texas A&M

Paper contest:
1st: Lindsey-Ann L. Schulte, Grand Valley State
1st: Kyla Iwinski, Clemson University
2nd: Julie A. Baniszewski, University of Florida
3rd: Justin Nawrocki, North Carolina State University

Tour: We had 13 student participants, 3 EPA staff members, and 4 chaperones participating in our student tour of local aquatic plant management activities on Wednesday, July 16. This year’s tour was sponsored by APMS and was planned and hosted by Estate Management Services, Inc. of Brunswick, GA. Our tour began at the Savannah National Wildlife Refuge where USFWS biologist Lindsay Coldiron led a tour of several invasive species control projects on the refuge. The group enjoyed getting some great shots of shorebirds and alligators! We then visited The Landings where Shawn Burgess discussed Ruppia control efforts in conjunction with tarpon and snook habitat management and we toured the dredging operations and spoil site. Our tour closed with the students enjoying one final evening in historic Savannah. We thank our tour hosts and are looking forward to a wonderful tour next year in the South Carolina low country!

We look forward to seeing all the students, and some new faces, at chapter meetings and at next year’s national meeting in beautiful Myrtle Beach, South Carolina!
APMS GRADUATE STUDENT RESEARCH GRANT

A graduate student research grant in the area of aquatic plant management and ecology is being offered by the Aquatic Plant Management Society’s research and education initiative.

Objective: To provide a grant for a full-time graduate student to conduct research in an area involving aquatic plant management techniques (used alone or integrated with other management approaches) or in aquatic ecology related to the biology or management of regionally or nationally recognized nuisance aquatic vegetation.

Applicants: Solicitation for proposals is open to any full-time faculty member and/or graduate student of an accredited U.S. academic institution. A faculty sponsor must be identified if the application is submitted by a graduate student.

Amount: $40,000 (it is the policy of APMS not to pay overhead or indirect costs).

Duration: Two (2) years ($20,000 per year).

Proposal Deadline: Applications must be postmarked no later than April 17th, 2015.

Guidelines for Proposals: Proposals should contain a concise statement of the project, including its purpose and justification, as well as sections that discuss study objectives, methodology, schedule, budget, and planned publication of results. The resumé of the faculty applicant and graduate student (if known) should not exceed two (2) pages each. Proposals should not exceed ten (10) pages, and must be signed by the applicant (principal investigator) and an appropriate university official. Include copies of your five (5) most recent peer reviewed publications. Please submit a pdf file of your full application via email to Dr. John Madsen at jmadsen@ucdavis.edu.

Award: Notification of award will be provided to the faculty member in time to make arrangements to attend the APMS 55th Annual Meeting (July 12-15, 2015 – Myrtle Beach, South Carolina). Formal announcement of the recipient will be made at the Annual Meeting, with initiation of the grant scheduled for the 2016-2017 academic year. Payments will be made before January 31st of 2016 and 2017.

Requirements: Semi-annual progress reports must be submitted to APMS prior June 30th and December 31st for each year of the grant. The faculty member and student must participate in at least one APMS Board of Directors meeting and attend the APMS Annual Meeting. The student must present results of the funded research at least one time over the duration of the grant, although it is preferred that presentations are made annually. Upon completion, a final report must be submitted to APMS.

Inquiries:
Dr. John Madsen USDA - ARS
EIWRU, University of California-Davis
Mail Stop 4 - One Shields Avenue
Davis, CA 95616
Phone: 530-752-7870
Email: jmadsen@ucdavis.edu
Hello APMS!

I am extremely excited and honored to serve as the student director for APMS over the 2014-2015 season! I fell in love with aquatic plant management at the ripe ol’ age of 18, while interning with Ms. Amy Smagula at the New Hampshire Department of Environmental Services. Since that time aquatic plant management has been my passion. I completed my undergraduate studies at McGill University, Montreal, Qc. My undergraduate research focused on competition between the native and non-native haplotypes of *Phragmites australis*. Following graduation, I immediately began work as an aquatic plant biologist and consultant for Aquatic Control Technology, LLC in Sutton MA. I love working in aquatic plant management because this field allows me to have direct positive impacts on the environment. There is nothing better than returning to a lake that was once over-run with monotypic mats of invasive plant species and seeing a vibrant, diverse native plant community with open water space for wildlife and recreation. I worked at Aquatic Control Technology, LLC for 6 years before returning to school. In January of 2014 I was offered the opportunity to pursue a master’s degree at North Carolina State University under the direction of Dr. Robert Richardson. My current research focuses on several aspects of the biology and control of *Nymphoides cristata* and monoecious *Hydilla verticillata*.

I have been an active member of the Aquatic Plant Management Society for close to 7 years, primarily in the Northeast Chapter. Over the years it has always stood out to me how much this society cares about its students by offering mentorship, scholarships and providing a forum for students to share their research. I want to thank the society for this and for allowing me the opportunity to become more involved.

To all of the APMS students: please contact me at any time with questions, suggestions or concerns at EjHaug@ncsu.edu.

Thank you!
Erika

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**Congratulations to This Year’s Award Winners!**

T. Wayne Miller Distinguished Service Award: Jim Schmidt
Max McCowen Friendship Award: Tommy Bowen
Outstanding Graduate Student Award: Justin Nawrocki
Exhibitor’s Excellence Award: Navico
President’s Award: Ken Langeland, Dan Thayer, Bill Zattau, Jeff Schardt
Best Non-Student Poster: Jonathan Newman and Manuel Duenas-Lopez
Photos from 2014 Meeting
Dispelling Common Misconceptions About “Superweeds”

The WSSA Public Awareness Committee, along with input and review from several other committees and the Board of Directors developed the following WSSA Fact Sheet about superweed myths:

Use of the term superweed has exploded in recent years and is frequently featured in news reports about herbicide-resistant weeds choking out crops. A few recent headline examples:

- Superweeds Choke Farms (Des Moines Register, June 22, 2014)
- U.S. Midwestern Farmers Fighting Explosion of “Superweeds” (Reuters, July 23, 2014)
- Superweed Spreading through Wall, Texas (KLST-TV, July 29, 2014)
- Super Weed Spreads Closer to Quad Cities (WQAD TV, August 4, 2014)

While there is no science-based definition for superweed, the term is often used to describe weeds believed to have special capabilities that are helping them outcompete other plants in ways never experienced before. Many associate superweed with glyphosate-tolerant crops and the suspected transfer of resistance genes from these crops to weeds. The Oxford Dictionary, for example, is one of many online resources to define superweed as “a weed which is extremely resistant to herbicides, especially one created by the transfer of genes from genetically modified crops into wild plants.” But is that the truth? Are today’s weeds “supercharged” in some way? And if so, why is that the case?

As a nonprofit organization that promotes science-based information about weeds, their impact on the environment and how they can be managed, the Weed Science Society of America (WSSA) has compiled the information below to clarify two common misconceptions about superweeds.

Misconception 1: Rampant gene transfer between genetically modified crops and weeds is creating weeds able to resist treatment by herbicides.

Reality: There is no evidence that gene transfer is a major factor in the development of herbicide resistance. Instead, overreliance on herbicides with a single mechanism of action to control certain weeds has led to the selection of weeds resistant to that mechanism of action.

The transfer of resistance traits from genetically modified crops to weeds growing in the field is rare, and the occurrences observed and reported to date have had minimal impact. The only currently known mechanism for any crop trait to move into weeds (or vice versa) is through cross pollination – a sexual crossing between the crop and the weed. Gene flow is more likely to happen if the crop and weed are sexually compatible, near relatives. Gene flow among more distantly related plant species is rare because they do not cross as readily. There are often physiological barriers, including pollen incompatibility, varying numbers of chromosomes and other factors that serve as impediments.

Even among sexually compatible crops and weeds, the opportunity for crop-weed gene flow depends on proximity of the crop plant to its wild weedy relatives. For example, there have been no reports of gene transfer in the more than 160 million annually planted acres of genetically modified corn, cotton and soybean crops where herbicide resistance weeds are such a significant issue today. Since these crops don’t have sexually compatible, near relatives in the U.S. and Canada, the risk of gene flow to other plants in the region is extremely low. Crops like sunflower, wheat and canola do have compatible weed relatives in
their major production areas (e.g. wild sunflower, jointed goatgrass, and wild relatives of canola, respectively). As a result, the risk of gene flow between those crops and wild plants is greater. Where gene flow has occurred, the resulting plants are no more weedy than their parent plants.

**Misconception 2: Herbicide use is creating a new breed of herbicide-resistant superweeds unlike anything we’ve ever seen before.**

**Reality:** The costly issue of herbicide resistance isn’t new – and neither are the competitive characteristics of weeds. Although the number of acres affected by resistant weeds has increased over the last decade as more growers have come to rely solely on herbicides with a single mechanism of action for weed control, weeds have exhibited resistance to many types of herbicides over the past 40 years. Many weed populations have even evolved resistance to multiple herbicide mechanisms of action.

Herbicide resistance is an important, costly and escalating issue, especially as growers have come to rely more than ever on a single class of herbicides that targets weeds in the same way. It is more critical than ever for a variety of carefully integrated weed management strategies to be used so weeds resistant to one method can be controlled in other ways before they have an opportunity to spread. This includes nonchemical means of weed control, such as crop rotation, tillage, cultivation, hand hoeing, seed capture, etc. The WSSA has created a variety of free educational materials and recommendations concerning resistance and how to avoid it, available online at [http://wssa.net/weed/resistance](http://wssa.net/weed/resistance).

As to those super powers that many individuals ascribe to herbicide-resistant weeds? Under herbicide-free conditions, resistant weeds are no more competitive or ecologically fit than their susceptible partners. Both can crowd out crops and other desirable plants by outcompeting them for water, nutrients, sunlight and space. They grow incessantly and can be prolific seed producers. A single Palmer amaranth plant, for example, can produce hundreds of thousands of seeds, regardless of whether it is herbicide resistant or not.

Weeds can be economically devastating if allowed to grow unchecked. As a result, we need to monitor vigilantly and use a variety of herbicide and non-herbicide strategies to control weed populations before they get out of hand.

**Note:**
The WSSA thanks the following scientists for their special contributions to this document:

- **Brad Hanson**, Ph.D., Cooperative Extension Weed Specialist in the Department of Plant Sciences at the University of California - Davis.
- **Andrew Kniss**, Ph.D., Associate Professor in the Department of Plant Sciences at the University of Wyoming and a WSSA board member.

**FY 2015 Appropriations On Hold Until After Elections**

Congress is out campaigning for the November 4 elections. Before they left town, they passed a continuing resolution (CR) funding the government at FY 2014 levels through Dec. 11. The House vote was 319-108. The Senate vote was 78-22. Depending on the election results, another CR may be needed to fund the government into the new year until after the members of the 1st session of the 114th U.S. Congress are sworn into office. Of the 12 appropriations bills for FY 2015, the House passed 8, but the Senate passed none.
The Washington Report

Herbicide Resistance Summit II – A Call To Action
The 2nd National Summit on Strategies to Manage Herbicide-Resistant Weeds was held September 10, 2014 in Washington DC. The Summit was very well organized and attended by over 300 people online and in person. The Summit planning committee, chaired by David Shaw, volunteered an incredible amount of their time and effort in planning and orchestrating this very successful event. Members of the Herbicide Resistance Summit Planning were:

David Shaw, Vice President for Research and Economic Development, Mississippi State University
Amy Asmus, Certified Crop Advisor, Asmus Farm Supply, Rake, Iowa
Mike Barrett, Professor of Weed Science, University of Kentucky, WSSA-EPA Liaison
Harold Coble, USDA Office of Pest Management Policy – retired, Weed Scientist, and Farmer
David Ervin, Professor of Environmental Management and Economics, Portland State University
George Frisvold, Professor of Agriculture and Resource Economics, University of Arizona
Les Glasgow, Syngenta, Herbicide Resistance Action Committee
Terry Hurley, Professor, Dept. of Applied Economics, University of Minnesota
Ray Jussaume, Professor and Chair, Dept. of Sociology, Michigan State University
Kara Laney, Board on Agriculture and Natural Resources, National Academy of Sciences
Mike Owen, Professor and Extension Weed Specialist, Iowa State University
Jill Schroeder, USDA Office of Pest Management Policy Weed Scientist
John Soteres (retired)/Michael Horak, Monsanto, Herbicide Resistance Action Committee
Blaine Viator, Weed Scientist, Independent Crop Consultant, Labadieville, Louisiana

All the presentations throughout the day were excellent! Both the slides and the webcasts of each of the presentations plus questions and answers are on the WSSA website at: http://wssa.net/weed/resistance-summit-ii/. In addition to the planning committee members listed above, we also heard from USDA’s Chief Scientist and Under Secretary for Research, Education, and Economics, Dr. Cathy Wotecki, EPA’s Director of Pesticide Programs, Jack Housenger, and the Director of the Australian Herbicide Resistance Initiative, Dr. Stephen Powles. There were so many great messages throughout the day, something for everyone. I really do encourage you to peruse the archived information if you have not had a chance yet. Dr. Harold Coble served as Master of Ceremonies and kept everyone on track. Harold humbly refers to himself as “an old broken down weed scientist from North Carolina”, but don’t be fooled! He delivered the concluding “Call to Action” remarks to all the various stakeholders and really did an excellent job tying it all together with his 60 plus years of weed management experiences.

Jill Schroeder Takes USDA-OPMP Weed Science Position
On July 27, Dr. Jill Schroeder started in her new position at USDA as a Weed Scientist in the Office of Pest Management Policy (OPMP). Dr. Schroeder was a Distinguished Professor of Weed Science at New Mexico State University and is a Past-President and Fellow of both WSSA and WSWS. She also recently served several years in the role of WSSA-EPA Liaison. Dr. Schroeder fills the position vacated by Dr. Harold Coble who retired in January 2014. Jill’s new email is Jill.Schroeder@ars.usda.gov and phone: (202) 720-0066.

The USDA Office of Pest Management Policy (OPMP) was established in September 1997, with the mandate to: 1) Integrate the Department’s strategic planning and activities related to pest management; 2) Coordinate the Department’s role in the pesticide regulatory process and related interagency affairs, primarily with the Environmental Protection Agency; and 3) Strengthen the Department’s support for agriculture by promoting the development of new pest management approaches that meet the needs of an evolving and
Foundation for Food Agricultural Research (FFAR) Board Selected

USDA Secretary Tom Vilsack announced the creation of FFAR and the appointment of a 15-member board of directors. The new foundation will leverage public and private resources to increase the scientific and technological research, innovation, and partnerships critical to boosting America’s agricultural economy. Authorized by Congress as part of the 2014 Farm Bill, the foundation will operate as a non-profit corporation seeking and accepting private donations in order to fund research activities that focus on problems of national and international significance. Congress also provided $200 million for the foundation which must be matched by non-federal funds as the Foundation identifies and approves projects. FFAR’s board of directors was chosen to represent the diverse sectors of agriculture. Seven of these board members were selected by the unanimous vote of the board’s five ex-officio members from lists of candidates provided by industry, while eight representatives were unanimously elected from a list of candidates provided by the National Academy of Sciences. The 15 FFAR Board Members are:

• Dr. Kathryn Boor - the Ronald P. Lynch Dean of the College of Agriculture and Life Sciences, Cornell University
• Dr. Douglas Buhler (Weed Scientist) - Director of AgBioResearch and Senior Associate Dean for Research for the College of Agriculture and Natural Resources, Michigan State University
• Dr. Nancy Creamer - Distinguished Professor of Sustainable Agriculture and Community Based Food Systems, North Carolina State University
• Dr. Deborah Delmer - Professor Emeritus of Biology, University of California-Davis
• The Honorable Dan Glickman (CHAIR)- former U.S. Secretary of Agriculture, current Executive Director of the Aspen Institute’s Congressional Program
• Dr. Robert Horsch - Deputy Director, Bill & Melinda Gates Foundation
• Pamela Johnson - Chairwoman, National Corn Growers Association
• Dr. Mark E. Keenum (VICE CHAIR)- President, Mississippi State University
• Dr. Michael Ladisch - Director of the Laboratory of Renewable Resources Engineering and Distinguished Professor of Agricultural and Biological Engineering, Purdue University
• Dr. Christopher Mallett - Vice President of Research & Development, Cargill, Inc.
• Dr. Pamela Matson - Chester Naramore Dean of the School of Earth Sciences, the Richard and Rhoda Goldman Professor of Environmental Studies and Senior Fellow at the Woods Institute for the Environment, Stanford University
• Dr. Terry McElwain - Associate Director and Professor, Paul G. Allen School for Global Animal Health, and Executive Director, Washington Animal Disease Diagnostic Laboratory, Washington State University
• Dr. Stanley Prusiner - Director of the Institute for Neurodegenerative Diseases and Professor of Neurology, University of California-San Francisco and 1997 Nobel laureate in physiology or medicine
• Dr. Yehia "Mo" Saif - Professor Emeritus, The Ohio State University
• Dr. Barbara Schaal - Dean of the Faculty of Arts & Sciences and Mary-Dell Chilton Distinguished Professor at Washington University in St. Louis.

More detailed biographical information for the FFAR Board of Directors can be found here:  [http://www.ars.usda.gov/is/FFARBios2014.pdf](http://www.ars.usda.gov/is/FFARBios2014.pdf)
Calendar of Events

2014
Nov 12-14  North American Lake Management Society; Tampa, FL

2015
Jan 20-22  Northeast Aquatic Plant Management Society; Saratoga Springs, NY
Feb 9-12  Weed Science Society of America; Lexington, KY
Feb 22-25  Midwest Aquatic Plant Management Society; Indianapolis, IN
Mar 30-Apr 1  Western Aquatic Plant Management Society; Portland, OR
Jul 12-15  Aquatic Plant Management Society; Myrtle Beach, SC

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.schartht@myfwc.com
Cody Gray: (954) 562-0254 or cody.gray@uniphos.com

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- Aqua Services, Inc.
- AquaTechnex, LLC
- Aquatic Control, Inc.
- Brewer International
- Clarke Aquatic Services
- Crop Production Services
- Cygnet Enterprises, Inc.
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- Nufarm Americas
- SePRO Corporation
- Syngenta
- United Phosphorus, Inc.
- Vertex Water Features
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