



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 100 June 2012

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"



Salt Lake City, Site of our 52nd Annual APMS meeting

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

The time is here to make your hotel reservations and register for the 52nd annual meeting of the Aquatic Plant Management Society. This year, the meeting is being held at the Little America Hotel in Salt Lake City, Utah. Make your arrangements by **June 20, 2012** and join your friends and colleagues at our meeting from July 22-25.

Hotel reservations can be made online at:
https://secure.saltlake.littleamerica.com/reservations_ows/flex/ReservationsOpera.html?hotelCode=LASLC&ratePlanType=G&ratePlanCode=AQUA0712&arrivalDate=2012-07-21&departDate=2012-07-25&groupEarliestArrivalDate=2012-07-18&groupLatestDepartDate=2012-07-28 or by calling the Little America Hotel directly at 800-437-5288. When making your reservation by phone, be sure to mention that you are part of the

Aquatic Plant Management Society. The cutoff date for reservations at the special group rate is **June 20, 2012**. Our special APMS guest room rate is \$139.00 for single and double occupancy per night plus applicable tax, currently 6.85%. These group rates are available three days prior to the conference and three days post conference. The Little America Hotel requires that all reservations be guaranteed with a major credit card or a deposit. Cancellations must be made 72 hours prior to arrival or you will be charged one night's room and tax. Check in time is 3:00 p.m. and checkout time is 12:00 p.m. If you choose to depart earlier than your reserved departure date, the hotel will charge one night room and tax.

The meeting registration fees are \$275.00 for a delegate and \$130.00 for a guest (spouse, partner, child over 12 years of age) if received by June 22, 2012. After this date, registration fees at the door will be \$330.00 for a delegate and \$155.00 for a guest. The meeting registration fee for a student competing in the student paper contest (oral or poster) is waived and the registration fee for a student not competing is \$75.00. Delegate and student registration includes all technical sessions, President's Reception, refreshment breaks, Poster Reception, and Awards Banquet. Guest registration includes President's Reception, refreshment breaks, Guest Tour, Poster

Reception, and Awards Banquet. Non-registered guests may purchase individual tickets for these events.

Ground transportation between the Salt Lake City International Airport and the Little America Hotel is available by shuttle or taxi (12 miles). The Express Shuttle (801-596-1600) can hold up to six passengers, will stop at up to four hotels, and cost \$8 per person each way. They have a desk inside both terminals by the baggage claim area for shuttle check-in. Taxi service is approximately \$20 one way. Guests can “call” a cab by stepping out of the airport terminal, talking with an attendant, or running their credit card through the KIOSK.

This year, our spouses and guests will be treated to a tour of Temple Square and the world famous Natural History Museum. You will be picked up at the Hotel at 10:00 a.m. and will return by 3:00 p.m. **Temple Square** is a worldwide icon of the Church of Jesus Christ of Latter day Saints and the heart of Temple Square. The massive granite edifice was constructed in a neo-gothic style over the course of an astounding 40 year period between 1853 and 1893; the pioneers who settled the valley sacrificed both time and material goods to the building of the temple, which stands as a testament of their faith and devotion. The **Salt Lake Tabernacle**, home of the world famous Mormon Tabernacle Choir, is an architectural and acoustic wonder. The famous organ at the front of the Tabernacle contains 11,623 pipes, making it one of the largest and richest sounding organs in the world, and the building was constructed so that even the drop of a pin at the front of the building can be heard at the back. The Temple Square tour will be completed at the **Visitors Center**. This building is home to an impressive 11-foot statue of Jesus Christ known as **The Christus**. The Lion House will serve as our host for lunch. The tour will conclude with a visit to the New **Natural History Museum**. The design for the Museum embodies the Museum’s educational and scientific mission to inspire wonder and discovery of the natural world and the place of humans in it. The new Museum is the “trailhead” for the state of Utah.

Besides our Guest Tour, July 24 is Utah’s state holiday, Pioneer Day, and there are several happenings during your visit. Here is a link of the events published so far:

<http://www.daysof47.com/events/>. The Days of ’47 rodeo is very popular, as well as the Sunrise Service at Temple Square on July 24.

This is guaranteed to be an extraordinary meeting, so plan to attend and bring the family! Please help us in planning for the 52nd Annual Meeting by submitting the **Meeting Registration Form** enclosed in this newsletter by June 22, 2012. We look forward to seeing you in Salt Lake City.

Scholastic Endowment Silent Auction Fund Raiser

Please consider donating an item to this year’s Scholastic Endowment’s Silent Auction which will take place at our annual meeting in Salt Lake City. The Silent Auction has successfully raised funds providing much needed financial support for student scholarships, presentations and poster awards. All donors confirming with John by June 10th will be recognized on both meeting sponsorship signs at the Silent Auction tables and in a program listing.

John Gardner, Scholastic Endowment Chair
Phone: (800) 432-4302
E-mail: john@vertexwaterfeatures.com

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

**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!

Aquatic Plant Management Society Blog:

The APMS Board of Directors recently approved the creation of a site (<http://apms-blog.blogspot.com/>) that aggregates aquatic plant management news items from around the country. I frequently receive e-mails from colleagues giving updates on various APM projects/issues, and thought it would be worthwhile to turn this process into a product that all of our membership can utilize to help better inform them on current APM issues at a regional and nationwide scale. Through a variety of search strings we plan to update this feature on a weekly basis and the site can be accessed via the APMS web page under the Social Networks Tab. At the present time Karen Brown (kpbrown@ufl.edu) is responsible for placing content on the site. Karen has a great background

to lead this project and with numerous contacts throughout the country, I anticipate the quality of the blog will improve over time. The e-mail address for contributing news to the APMS blog is apmsblog@gmail.com

While the current format will initially emphasize searches for news articles, we will eventually look to expand and introduce some of our own original content (e.g. op/ed pieces, project updates, etc). I think many members will find this to be an interesting and valuable site as it will keep them up to date on APM as it is practiced, regulated, and viewed by the public around the country. If you look under blog archive, you can view all of the articles that have been generated for 2012.

If you have any questions, comments or suggestions for improvement please feel free to contact me.

Michael D. Netherland
APMS Vice President

NPDES Compliance Information John Madsen

Spring has come, and it is time to comply with the new NPDES permit requirements. These requirements go beyond simply filing a notice of intent (NOI). Among other things, the applicator or resource manager has to complete a pesticide discharge management plan (PDMP) and have a method to both estimate the level of nuisance and evaluate effectiveness.

Currently, the Aquatic Ecosystem Restoration Foundation (AERF) has several tools available to prepare permit holders to comply with NPDES requirements, available on their webpage at <http://www.aquatics.org>, under the NDPE/PGP tab. First, under the news tab, AERF has provided a template of the Pesticide Discharge Management Plan (PDMP) as a fillable PDF form. This seven-page form will help in making sure all the elements of a PDMP are completed. The news section also has a summary of the Pesticide General Permit (PGP) elements. The news tab also has updates on available training resources, such as the EPA web-based permit-writer's training.

Under the state permits tab, links to each states permit and the contact information for a person in charge is available. Lastly, under the State NOI info tab, a state-by-state comparison of threshold levels for the permits is available.

The AERF will also be providing guidance on assessment methods for assessing nuisance plant levels in the near future.

2012 APMS Officer and Director Nominees

The following nominees have been selected by the Nominating Committee to serve on the APMS Board of Directors. Active members of the Society will vote for new Officers and Directors during the Annual Business Meeting to be held on Monday, July 23, 2012, 4:30 p.m. in Ballroom AB of the Little America Hotel, Salt Lake City, UT.

Vice President: Dr. Cody Gray

Cody was raised on his grandfather's dairy farm near Ralston, OK. He received his Bachelor's degree in chemistry at Southwestern Oklahoma State University in 1998, a M.S. in Weed Science from Oklahoma State University in 2001, and a Ph.D. in Weed Science from Mississippi State University in 2005. After completing his graduate education he accepted an Assistant Professor position with the University of Florida at the Fort Lauderdale Research and Education Center located in Fort Lauderdale, FL where his appointment included research on invasive aquatic plants, aquatic extension specialist for the southern half of Florida and taught a pesticide application course. Cody is currently employed by United Phosphorus, Inc., as a Field Development Representative, in which, he oversees all aquatic herbicide and algaecide market development and research trials conducted in the United States, Canada, Australia, and New Zealand. Additionally, Cody is responsible for all UPI product development, including herbicides, insecticides, fungicides, and fumigants, for several western states. Dr. Gray has been a member of the APMS since 2006 and currently serves on the Board of Directors and as the APMS representative on the Weed Science Society of America Board of Directors. Cody is

also the Vice President of the Western Aquatic Plant Management Society.

Masser has been a member of the APMS since 2001.

Director: Dr. Michael Masser

Michael Masser is currently serving as Professor and Extension Specialist and Associate Department Head and Extension Program Leader with 14 year of service with Texas A&M University. Michael received his Ph.D. from Texas A&M University in 1986 and has been an Extension educator for 26 years and serviced three states (KY, AL, and TX). Over that time he has authored or co-authored over 165 publications and over 300 national and international presentations at scientific meetings on aquaculture, private impoundment management, water quality, and aquatic vegetation management. His Aquaplant web site is recognized nationally for its innovative methodology for the identification and management of nuisance aquatic plants. He is Principal Investigator of the internationally recognized Southern Regional Aquaculture Center Publication Project 1998-present (<http://srac.tamu.edu>). Michael has demonstrated leadership in scientific societies, as Presidents of the TAMU Chapter of AFS, Alabama Chapter of AFS, United States Aquaculture Society, World Aquaculture Society, and twice President of the Texas Aquatic Plant Management Society. Dr.

Director: Dr. Joe Vassios

Joe Vassios recently graduated from Colorado State University with a Ph.D. in Weed Science. During his graduate studies, Joe conducted a range of studies on aquatic plant management, including evaluation of herbicide absorption, translocation, and new alternatives for aquatic plant management in irrigation canals. Since 2007, Joe has been an active participant in the Aquatic Plant Management Society and the Western Aquatic Plant Management Society. During 2010-2011, he served on the APMS Board of Directors as the Student Director, and has served on both the Student Affairs and Awards Committees. Joe started in his current position as the Southwestern Aquatics Account Manager for United Phosphorus, Inc., in December 2011, and continues to be active in the aquatic plant management industry.

WSSA UNDERGRADUATE RESEARCH AWARD – 2013

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 2013. 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 16, 2012. Funding decisions will be made by January 25, 2013 and presented at the 2013 WSSA National Meeting Awards Ceremony.

DWIWater Service Director

In order for our service department to grow, be profitable and superior in the industry, we will need to employ a skilled professional service director to oversee all of our aquatic services. It is part of our mission to provide our customers with exceptional communication, quality, support, service, attitude and timely work completion. This person must be allowed to focus his time/energy to our maintenance division.

QUALIFICATIONS

1. Must possess mechanical aptitude.
2. Must have superior organizational skills. Efficient.
3. Good communication skills. Positive attitude.
4. Able to travel.
5. Neat, clean & orderly.
6. Must be able to multi task.
7. Team player and growth minded.
8. Must be committed to the values of: Honesty, Tolerance, Perseverance, Courage, Responsibility, Self-discipline, Loyalty, Quality work, Integrity, Faith.
9. Computer skills & Common Sense.

RESPONSIBILITIES

The responsibilities are identified herein are not necessarily limited to the following due to the multitude of tasks that are involved in our service department.

1. Manage Crews – Responsible for overseeing all maintenance accounts in Orange County and the desert.
 - a) Scheduling & managing service routes.
 - b) Managing personnel, employee relations, attitudes & motivation.
 - c) Evaluations for crew.
 - d) Pesticide application & safety training.
 - e) Trucks, equipment, tools & supplies issued to crew members.
 - f) Coordinate repairs, maintenance and supply requests.
 - g) Warehouse supplies and office equipment.
 - h) Record keeping.
2. Maintain Customer relations (PR), correspondence, attend meetings & walk-thru's.
3. Responsible for troubleshooting, diagnosing and recommending course for correcting Mechanical, Biological, Chemical and Hydraulic anomalies.
4. Responsible for out-sourcing suppliers and services.
5. Implement, oversee, execute & complete;
 - a) EWO's (extra work orders)– pump repairs, leaks, rock repair, concrete work etc.
 - b) Specialty Contracts – Cleanouts, aeration installations (diffusers, fountains), light repair, aquatic plant mitigation, structural fountains.
6. Job Cost, cost control & office communications on all operations which include verbal, written and/or computer generated.
7. Develop relationships within the customer base by meeting with multiple levels of the accounts within their assigned accounts.
8. Drive customer satisfaction and loyalty by demonstrating an understanding of customers' key objectives, and delivering products and services that help customers meet those business objectives, as well as focusing on incremental growth opportunities.
9. Maintain regular contact with account base, and increase revenue through the sales of new & existing products.
10. Work consists of plant identification, herbicide use, advising and troubleshooting, as well as implementing education programs. Oversight of service & warehouse employees, safety and ensuring customer satisfaction and a safe product is vital.

Start-up Duties

1. Survey and inspect ALL properties with a fine tooth comb & learn all systems.
2. Analyze efficiency & develop strategy / plan to increase efficiency & reduce costs.
3. Propose upgrade & repair plan for all properties.
4. Learn office procedures and policies.

Contact:
Maria Angel
M6a2@dwewater.com
949-582-5414

WASHINGTON REPORT

June 1, 2012

Lee Van Wychen

FY 2013 Ag Research Appropriations

The Senate Appropriations committee passed its version of the FY 2013 Ag Appropriations (S. 2375) on April 26. The House Appropriations Committee has yet to act on the measure. Overall, the Senate numbers are better than the Administration's numbers for APHIS, the Hatch Act, and Smith Lever 3(b) and (c) programs. The Administration proposed \$325 million for the Agriculture and Food Research Initiative (AFRI) which is nearly a 23 percent increase over FY 2012, while the Senate proposed \$298 million for AFRI. The National Institute of Food and Agriculture (NIFA), which AFRI is part of, would receive \$1.238 billion from both the Senate and Administration. This is a roughly a \$37 million increase over FY 2012. Funding for the USDA-ARS would receive \$1.101 billion, an increase of \$7.2 million. The Senate Appropriations Committee rejected the Administration's request to close six more ARS research facilities after closing twelve during the current fiscal year.

The Senate also rejected the Administration's proposal for consolidating six pest management related programs (highlighted in gray) into a Crop Protection Program. This program would support projects that respond to pest management challenges with coordinated regionwide and national research, education, and extension programs, and would serve as a catalyst for promoting further development and use of integrated pest management approaches. The Administration proposed \$29.056 million for the Crop Protection Program, which reflects combined pest management funding transferred from Research and Education and Extension Activities into the Integrated Activities account under Section 406 Authority. The Senate funded all six pest management related programs at their FY 2012 funding level, and kept them under their respective Research and Education, Extension, and Integrated Accounts within the NIFA budget. The Senate funding for the six programs totals \$29.748 million or \$690,000 more than the Administration's proposal.

The WSSA Science Policy Committee has received a lot of feedback from members both in support and against the Administration's proposed Crop Protection Program. The main point in support of the proposed Crop Protection program, in addition to those mentioned above, is that the consolidated budget number would help USDA protect the smaller IPM programs under this harsh fiscal climate. The main point against the new proposal is that IR-4 and the Extension IPM Coordinators programs would incur indirect cost recovery of approximately 30 percent if they were moved from their respective Research and Education and Extension Activities Account to the Integrated Activities Account. The WSSA has supported all six of the programs in the past and would like to see each of their budgets grow. The Science Policy Committee will continue to vet the new Crop Protection proposal.

<u>USDA Program Description</u>	FY 2011 Appropriated	FY 2012 Appropriated	FY 2013 President	FY 2013 Senate
APHIS	863,270	816,534	762,418	816,534
ARS	1,133,230	1,094,647	1,102,565	1,101,853
ERS	81,814	77,723	77,397	77,397
NASS	156,447	158,616	179,477	179,477
NIFA	1,214,798	1,202,264	1,238,745	1,238,745
RESEARCH & EDUCATION	698,740	705,599	732,730	738,638
- Hatch Act	236,334	236,334	234,800	236,334
- Cooperative Forestry Research	32,934	32,934	32,934	32,934
- Improved Pest Control	16,153	15,830	0	15,830
Expert IPM System	156	153	0	153
IPM Grants Program	2,410	2362	0	2362
IR-4	12,156	11,913	0	11,913

PMAP	1,431	1402	0	1402
- AFRI	264,470	264,470	325,000	297,956
- Sustainable Ag Res. and Educ.	14,970	14,471	14,471	14,471
EXTENSION ACTIVITIES	479,132	475,183	462,473	475,125
- Smith Lever	293,911	294,000	292,411	294,000
- Extension IPM Coordinators	9,418	9,918	0	9,918
INTEGRATED ACTIVITIES	36,926	21,482	43,542	24,982
- Section 406	29,000	14,496	33,056	14,496
- Regional IPM Centers	3,000	4,000	0	4,000
- CAR	0	0	0	0
- RAMP	0	0	0	0
- Methyl Bromide Transition	2,000	1,996	1,996	1,996
- Organic Transitions	4,000	4,000	4,000	4,000
- Crop Protection Program*	-----	-----	29,056	0



National Summit on Strategies to Manage Herbicide Resistant Weeds A Success

On May 10, 2012 more than 250 policymakers, producers, herbicide manufacturers, social scientists, agronomists and weed scientists participated in a National Summit on Strategies to Manage Herbicide Resistant Weeds at George Washington University in Washington, D.C. The Summit had excellent speakers and panelists throughout the day that provided the scientific underpinnings of the herbicide resistant weed problem which led to excellent discussions about the impediments and incentives needed to move forward in managing herbicide resistant weeds. Two common themes that emerged during the summit was the need for a diversity of weed management tactics and the woefully inadequate federal funding directed to weed science.

The nine member planning committee deserves a ton of credit for the excellent program and speakers. The Summit planning committee was chaired by Dr. Charles J. Arntzen, a member of National Academy of Sciences from Arizona State. WSSA members on the planning committee included Dr. Harold Coble, USDA-ARS; Dr. Jodie Holt, University of California – Riverside; Dr. Mike Owen, Iowa State; Dr. Jill Schroeder, New Mexico State; and Dr. David Shaw, Mississippi State. Other planning committee members included Dr. David Ervin, Dept. of Economics, Portland State; Dr. Terrance Hurley, Dept. of Applied Economics, University of Minnesota; and Dr. Raymond Jussaume Jr, Dept. of Sociology, Michigan State.

The Herbicide Resistant Weeds Summit was organized with generous support from the WSSA, USDA-NIFA, USDA-ERS, the Herbicide Resistant Action Committee, the Iowa Soybean Association, the National Cotton Council, and the United Soybean Board.

All sessions of the Herbicide Resistance Summit were video recorded and will be posted on the NAS website at: nas-sites.org/hr-weeds-summit/. Later this summer, the Summit Proceedings will be released and posted on the NAS website and disseminated to the press, meeting participants, and stakeholders.

Senate Ag Passes Its Version of 2012 Farm Bill

The Senate Agriculture, Nutrition, and Forestry Committee passed its version of the 2012 Farm Bill by a vote of 16-5 on April 26. Overall, the bill would cut the nation's deficit by \$23 billion. The legislation would consolidate and eliminate many USDA programs. Conservation programs are among the targets, with 23 existing programs proposed for consolidation into 13 programs.

In the research title, the bill would reauthorize AFRI at \$700 million per year. The Specialty Crop Research Initiative would receive a total of \$200 million over the life of the farm bill and its funding levels are made permanent into future farm bill cycles at \$50 million per year. The Organic Agriculture Research and Extension Initiative would receive \$80 million over the life of the farm bill, or \$16 million per year plus an authorization for \$25 million per year in appropriations. This is 20 percent decrease in current annual funding. Also included in the bill is a provision that requires USDA-NIFA to assess barriers faced by institutions with limited capacity to successfully apply and compete for research grants.

The House Ag Committee is still conducting Farm Bill hearings and plans to mark up its version later this spring. While it's still a possibility that Congress could pass a Farm Bill and get it to the President before the November elections, the more likely scenario is a Farm Bill sometime during next year.

Aquatic Plant Control Research Program Under Attack Again

The U.S. Army Corps of Engineers' Aquatic Plant Control Research Program (APCRP) is the nation's only federally authorized program for research and development of science-based management strategies for invasive aquatic weeds. The work conducted by APCRP's 18 research staff has been effective, efficient, and invaluable in our nation's fight against foreign aquatic invaders. Like FY 2012, the Administration and the House Energy and Water Appropriations Committee have not provided any funding for FY 2013, but the Senate Energy and Water Appropriations Committee proposed \$4 million in funding for APCRP during their April 26 mark-up. It would be a grave mistake by the Corps' to eliminate the expertise and institutional knowledge encompassed by APCRP. We have once again asked the Army Corps of Engineers and Congress to restore funding to \$4 million for FY 2013.



2012 NISAW A Success

National Invasive Species Awareness Week or NISAW was held from Feb. 26 to March 2, 2012. Over 800 people participated in Kids Invasive Species Day at the U.S. Botanic Garden. State, local, tribal and federal officials as well as representatives of business, environmental groups, and private citizens participated at events held at the Department of Interior, the Department of Agriculture and the Hamilton Crowne Plaza Hotel. Over 100 people from across the U.S. participated. Deputy Assistant Secretary for Policy and International Affairs, Lori Faeth, Catherine Woteki, USDA Under Secretary for Research, Education and Economics, John Goss, White House Council on Environmental Quality's Asian Carp Director, and Deputy Assistant Secretary of State Lawrence J. Gumbiner provided opening presentations.

The first ever National Invasive Species Awards were presented on behalf of the National Invasive Species Council (NISC), the Aquatic Nuisance Species Task Force (ANSTF) and the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW). The Chief of the USDA Forest Service also gave out invasive species awards. US Fish and Wildlife Service Director Dan Ashe addressed more than 300

people attending the NISAW/Association of Fish and Wildlife Agencies reception about the importance of preventing the introduction of invasive animals. The Defenders of Wildlife hosted a discussion of invasive species topic for the National Environmental Coalition on Invasive Species at their headquarters. More than 140 people attended the Grassroots Invasive Species Forum and Webinar via the internet; and prevention and international cooperation topics were extensively reviewed. In addition, the National Park Service hosted the first ever Urban Invasive Species Forum. Many states and localities hosted their own invasive species events.

WSSA is among the many public and private stakeholders working with NISC to organize the education and awareness events. WSSA hosted a seminar at the House Agriculture Committee featuring Dr. Rod Lym from North Dakota State University. Dr. Lym presented research data on the success of the TEAM Leafy Spurge Project in a talk titled "Invasion Persuasion: TEAM Leafy Spurge, the successful program for defeating a widespread invader". TEAM Leafy Spurge was a USDA-ARS 6-year research and demonstration program that was highly effective at developing and demonstrating ecologically based integrated pest management strategies that landowners and land managers could use to achieve effective, affordable and sustainable leafy spurge control. Thanks to the many people, agencies and organizations who made NISAW happen!

2,4-D Still Safe After 60 Years

The Natural Resources Defense Council (NRDC) requested that EPA cancel all 2,4-D registrations and revoke all tolerances in a November 2008 petition. This is despite the fact that 2,4-D had just undergone an extensive review in 2005 during the FIFRA re-registration process. After considering new public comments and evaluating all science-based studies, EPA denied the NRDC petition on April 9, 2012.

For more information about the EPA review of 2,4-D and a press release on its decision please go to:

http://www.epa.gov/oppfead1/cb/csb_page/updates/2012/2-4d-petition.html

National Bioeconomy Blueprint Issued by Obama Administration

The Obama Administration released its National Bioeconomy Blueprint in April. Describing the 'bioeconomy' as an economy based on the use of research and innovation in the biological sciences to create economic activity and public benefit, the White House emphasized its tremendous potential for growth and the many societal benefits it offers.

The Blueprint highlights five strategic objectives that need to be met. The first objective is to invest in R&D in areas that are foundational for the future bioeconomy. To ensure success of this objective, federal agencies will need to select R&D investments strategically for maximum effect, implement a cross-disciplinary approach to research problems, and create funding procedures that are more flexible.

The government will also strive to develop and reform regulations to reduce barriers, increase the speed and predictability of regulatory processes, and reduce costs while protecting human and environmental health. The report also calls for the identification and support of public-private partnerships and precompetitive collaborations. Potential areas of collaboration include biofuels, food security, and biotheapeutics.

The Bioeconomy Blueprint gives many examples of federal projects already underway that contribute to the bioeconomy. For the full report, visit: <http://www.whitehouse.gov/blog/2012/04/26/national-bioeconomy-blueprint-released>

USDA Releases 2010 Pesticide Data Program Report

The USDA released its annual Pesticide Data Program (PDP) report on May 25th, available here at <http://www.ams.usda.gov/AMSV1.0/pdp>. In the report, USDA states that pesticide residues on food do not pose a safety concern. Of the 11,644 samples tested for pesticide residue, fresh and processed fruit and vegetables accounted for 85.0 percent of the total samples collected. Other samples collected in 2010 included water, 6.4 percent; catfish, 3.0 percent; eggs, 2.9 percent; and oats, 2.3 percent. Approximately 73.8 percent of samples were from U.S. sources, 23.8 percent were imports, 1.4 percent was of mixed origin and 1.0 percent was of

unknown origin. Of the 11,644 samples tested, only 29 had residue levels above EPA-set tolerance levels. Only 12 of those samples were of U.S. origin and none were herbicides.

Lee Van Wychen, Ph.D.
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Draft Agenda
Aquatic Plant Management Society
Salt Lake City, UT – July 22-25, 2012

Sunday, July 22

Sunday's Agenda-at-a-Glance

7:30 am - 5:00 pm APMS Board of Directors Meeting (*Snowbasin*)
12:00 pm - 5:00 pm Exhibits Setup (*Ballroom C - Foyer C*)
12:00 pm - 5:00 pm Poster Setup (*Ballroom C - Foyer C*)
1:00 pm - 5:00 pm Registration (*Foyer AB*)
7:00 pm - 9:00 pm President's Reception (*Ballroom B*)

Monday, July 23

Mondays Agenda-at-a-Glance

7:30 am - 8:00 am Continental Breakfast (*Ballroom C - Foyer C*)
7:30 am - 5:00 pm Exhibits Open (*Ballroom C - Foyer C*)
7:30 am - 5:00 pm Posters Open (*Ballroom C - Foyer C*)
7:30 am - 5:00 pm Registration (*Foyer AB*)
8:00 am - 12:10 pm Session I (*Ballroom AB*)
10:00 am - 3:00 pm Guest Tour
10:00 am - 10:30 am Refreshment Break (*Ballroom C - Foyer C*)
12:10 pm - 1:40 pm Lunch on your own
12:10 pm - 1:40 pm APMS Student Affairs Luncheon (*Flagstaff*)
12:10 pm - 1:40 pm Aquatic Ecosystem Restoration Foundation Meeting (*Sawtooth*)
1:40 pm - 4:30 pm Session II (*Ballroom AB*)
3:00 pm - 3:30 pm Refreshment Break (*Ballroom C - Foyer C*)
4:30 pm - 5:00 pm Annual Business Meeting (*Ballroom AB*)
6:00 pm - 7:30 pm Poster Session and Reception (*Ballroom C - Foyer C*)

Session I

8:00 am - 12:10 pm
Ballroom AB

Moderator: Mr. Terry Goldsby - Aqua Services, Incorporated

8:00 am **Welcome: Opening Remarks and Announcements**

8:05 am **Presidential Address**
Tyler Koschnick
SePRO Corporation, Carmel, IN

8:20 am **Bridging Science to Policy - Keynote Address**
Jill Schroeder
New Mexico State University, Las Cruces, NM

8:40 am **An Ecosystem Services Approach to Management of Aquatic Invasive Species: Should APMS Take the Lead?**
Lars Anderson (Retired)
U.S. Department of Agriculture, Agricultural Research Service, Davis, CA

9:00 am **Idaho's Aquatics Program**
Thomas Woolf
Idaho Department of Agriculture, Hayden, ID

9:20 am **Distribution and Management of Aquatic Invasive Plants in Montana**
Celestine Duncan¹, Ray Beck², Dave Burch³, and John Halpop⁴
¹*Weed Management Services, Helena, MT*
²*Department of Natural Resources and Conservation, Helena, MT*
³*Montana Department of Agriculture, Helena, MT*
⁴*Montana State University Cooperative Extension Service, Helena, MT*

- 9:40 am **Henrys Lake Prevention Project – Idaho**
Bryce Fowler
Fremont County Weed Control, Saint Anthony, ID
- 10:00 am **Refreshment Break (Ballroom C - Foyer C)**
- 10:30 am **Assessment of the Distribution of Aquatic Invasive Plants in the Pacific Northwest: Five Years of Surveying**
Ryan M. Wersal¹, John D. Madsen¹, Jonathan P. Fleming¹ and Celestine Duncan²
¹*Mississippi State University, Mississippi State, MS*
²*Weed Management Services, Helena, MT*
- 10:50 am **Products Available for Use in Irrigation Canals**
Hugh McEachen
Columbia Basin Project, Pasco, WA
- 11:10 am **Weed and Algae Management in Irrigation Canals**
Brian Olmstead
Twin Falls Canal Company, Twin Falls, ID
- 11:30 am **California & Nationwide NPDES Permit: "Deja Vu All Over Again?"**
Michael S. Blankinship
Blankinship & Associates, Incorporated, Davis, CA
- 11:50 am ***Equisetum hyemale* (Scouringrush) Response to Sonar Genesis™ (a.i. Fluridone) and Clearcast™ (a.i. Imazamox)**
Jill Schroeder¹ and Mark A. Heilman²
¹*New Mexico State University, Las Cruces, NM*
²*SePRO Corporation, Carmel, IN*
- 12:10 am **Lunch on your own**

Session II

1:40 pm - 4:30 pm
 Ballroom AB

Moderator: Dr. John Madsen - Mississippi State University

- 1:40 pm **Pre-Emergent Use of the ALS Herbicide Galleon™ (Penoxsulam) in Aquatic Sites**
Andrew Z. Skibo¹, Mark A. Heilman², and Scott W. Shuler²
¹*SePRO Corporation, Denver, CO*
²*SePRO Corporation, Carmel, IN*
- 2:00 pm **An Update on Flowering Rush Control Demonstration Projects for Infestations Spanning Watersheds between the Pacific Northwest and Great Lakes States**
Thomas Moorhouse¹, Thomas McNabb², Peter Rice³, Virgil Dupuis⁴, Alvin Mitchell⁴, Jenifer Parsons⁵, Thomas Woolf⁶, and John D. Madsen⁷
¹*Clean Lakes, Incorporated, Coeur d'Alene, ID*
²*Clean Lakes, Incorporated, Kissimmee, FL*
³*University of Montana, Missoula, MT*
⁴*Salish Kootenai College, Pablo, MT*
⁵*Washington Department of Ecology, Yakima, WA*
⁶*Idaho Department of Agriculture, Hayden, ID*
⁷*Mississippi State University, Mississippi State, MS*
- 2:20 pm **Evaluation of Non-Chemical Control Strategies for Common Aquatic Weeds in California**
Michael S. Blankinship
Blankinship & Associates, Incorporated, Davis, CA
- 2:40 pm **A Review of a Mechanical Control Project for Emergent Aquatic Vegetation Control in Coastal Southern California**
Thomas Moorhouse

- 3:00 pm **Refreshment Break** (*Ballroom C - Foyer C*)
- 3:30 pm **Triploid Grass Carp Feeding Preferences for Two Novel Invasive Aquatic Plants** (*Student Presentation*)
Michael T. Neisch¹, Michael Masser¹, and Daniel Roelke²
¹*Texas A&M University / Texas AgriLife Extension Service, College Station, TX*
²*Texas A&M University, College Station, TX*
- 3:50 pm **Diagnosis of a Nuisance Aquatic Plant Problem on Lake Havasu**
John D. Madsen
Mississippi State University, Mississippi State, Mississippi
- 4:10 pm **Updates for AERF and NPDES**
Carlton Layne
Aquatic Ecosystems Restoration Foundation, Marietta, GA
- 4:30 pm **Annual Business Meeting**
Tyler Koschnick
President, Aquatic Plant Management Society
- 5:00 pm **Adjourn**

Poster Session

6:00 pm - 7:30 pm

Ballroom C - Foyer C

Monitoring Field Applications of Clipper Herbicide

Jason C. Fausey

Valent Professional Products, Fremont, OH

Effect of Water Depth and Sediment Composition on Vegetative Reproduction of the Invasive Aquatic Weeds *Rotala* [*Rotala rotundifolia* (Buch.-Ham. ex Roxb.) Koehne] and *Hygrophila* [*Hygrophila polysperma* (Roxb.) T. Anders]

Lyn A. Gettys, Warner Orozco Obando, and Francis C. Reed III

University of Florida, Institute of Food and Agricultural Sciences, Fort Lauderdale Research and Education Center, Davie, FL

Evaluation of Liquid and Granular Tyiclopyr against Waterlily, Spatterdock, and Hardstem Bulrush

LeeAnn Glomski¹ and Michael D. Netherland²

¹*U.S. Army Engineer Research and Development Center, Lewisville, TX*

²*U.S. Army Engineer Research and Development Center, Gainesville, FL*

Competition of Monoecious Hydrilla with Other Submersed Macrophytes (*Student Presentation*)

Sarah T. Meadows and Robert J. Richardson

North Carolina State University, Raleigh, NC

Sago Pondweed Control in Irrigation Canals Using Endothall and Chelated Copper: Comparing Greenhouse and Field Results

Scott J. Nissen¹, Joseph D. Vassios², William Ratajczyk³, and Brian Lind⁴

¹*Colorado State University, Fort Collins, CO*

²*United Phosphorus, Incorporated, Sacramento, CA*

³*Applied Biochemists, Milwaukee, WI*

⁴*Applied Biochemists, Scottsbluff, NE*

Effects of Aquatic Weeds Biomass Soil Incorporation on Chemical Properties of a Degraded Soil

Robinson L. Pitelli¹, Monicke O. Vieira², and Robinson A. Pitelli³

¹*Ecosafe Agriculture and Environmental Sciences, Jaboticabal, Brazil*

²*Light Energy, Pirai, Brazil*

³*University of State of São Paulo, Jaboticabal, Brazil*

What are Effective Treatments for Controlling Small, Dense Patches of *Phragmites australis* in Great Salt Lake Wetlands? (Student Presentation)

Christine B. Rohal and Karin M. Kettenring
Utah State University, Logan, UT

Variations in Water Exchange Characteristics among Hydrilla Sites in the Ross Barnett Reservoir (Student Presentation)

Bradley T. Sartain, Ryan M. Wersal, and John D. Madsen
Mississippi State University, Mississippi State, MS

Water Nutrient Removal from Mechanical Harvesting of Aquatic Weeds in a Eutrophic Reservoir in Brazil

Monicke O. Vieira¹, Robinson A. Pitelli², and Robinson L. Pitelli³

¹*Light Energy, Pirai, Brazil*

²*University of State of São Paulo, Jaboticabal, Brazil*

³*Ecosafe Agriculture and Environmental Sciences, Jaboticabal, Brazil*

Is *Hygrophila polysperma* in Texas a Potential Threat? (Student Presentation)

Casey R. Williams

Texas State University, San Marcos, TX

Ultrasonic Algae Control - How Does It Work?

Kirk Whatley

SonicSolutions, LLC, West Hatfield, MA

Different Management Techniques for *Lyngbya wollei* on Alabama Power Controlled Reservoirs

Josh Yerby

Aqua Services, Incorporated, Guntersville, AL

Tuesday, July 24

Tuesday's Agenda-at-a-Glance

6:30 am	-	8:00 am	APMS Regional Chapters Presidents' Breakfast (<i>Flagstaff</i>)
7:30 am	-	8:00 am	Continental Breakfast (<i>Ballroom C - Foyer C</i>)
7:30 am	-	5:00 pm	Exhibits Open (<i>Ballroom C - Foyer C</i>)
7:30 am	-	5:00 pm	Posters Open (<i>Ballroom C - Foyer C</i>)
7:30 am	-	5:00 pm	Registration (<i>Foyer AB</i>)
8:00 am	-	12:10 pm	Session III (<i>Ballroom AB</i>)
10:00 am	-	10:30 am	Refreshment Break (<i>Ballroom C - Foyer C</i>)
12:10 pm	-	1:40 pm	Lunch on your own
12:10 pm	-	1:40 pm	APMS Past Presidents' Luncheon (<i>Uinta</i>)
1:40 pm	-	5:10 pm	Session IV (<i>Ballroom AB</i>)
3:00 pm	-	3:30 pm	Refreshment Break (<i>Ballroom C - Foyer C</i>)
6:00 pm	-	7:00 pm	Reception (<i>Foyer AB</i>)
7:00 pm	-	10:00 pm	Awards Banquet (<i>Ballroom A</i>)

Session III

8:00 am - 12:10 pm

Ballroom AB

Moderator: Dr. Michael Netherland - U.S. Army Engineer Research and Development Center

7:55 am **Opening Comments**

8:00 am **Deep Water Mechanical Harvesting of Hydrilla in West Lake Tohopekaliga**

Dean Jones¹, William T. Haller², and Mike Hulon³

¹*University of Florida, Center for Aquatic and Invasive Plants, Lake Alfred, FL*

²*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*

³*Texas Aquatic Harvesting, Incorporated, Lake Wales, FL*

8:20 am **Evaluations and Results from the First Year Field Use of Flumioxazin (Clipper Herbicide)**

James F. Petta

- 8:40 am **Control of Water Lettuce and Water Hyacinth Using Low Doses of Imazamox and Penoxsulam Plus Contact Herbicides or Surfactants**
Christopher R. Mudge¹ and Michael D. Netherland²
¹*U.S. Army Engineer Research and Development Center, Vicksburg, MS*
²*U.S. Army Engineer Research and Development Center, Gainesville, FL*
- 9:00 am **Herbicide Efficacy on Cuban Bulrush (*Oxycaryum cubense* (Poepp & Kunth) Palla) (Student Presentation)**
Amanda L. Fernandez and John D. Madsen
Mississippi State University, Mississippi State, MS
- 9:20 am **Pre-emergent Control of Submersed Aquatic Weeds in Arkansas Baitfish Ponds: Year 3**
George L. Selden
University of Arkansas at Pine Bluff, Jonesboro, AR
- 9:40 am **Biology and Control of the Invasive Aquatic Plant, Crested Floating Heart (*Nymphoides cristata*) (Student Presentation)**
Leif N. Willey¹ and Michael D. Netherland²
¹*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*
²*U.S. Army Engineer Research and Development Center, Gainesville, FL*
- 10:00 am **Refreshment Break (Ballroom C - Foyer C)**
- 10:30 am **Investigating the Potential Role of Cyanobacteria in Intersex in Fish (Student Presentation)**
Jamie R. Morgan, James A. Herrin, Rebecca S. Haynie, Kristen Kellock, Susan B. Wilde, and Robert Bringolf
University of Georgia, Athens, GA
- 10:50 am **Nuisance Aquatic Species Control: Implications for Wild Bird Health**
Rebecca S. Haynie¹, Robert Bahn¹, Deborah C. Harris², James A. Herrin¹, John R. Fischer¹, and Susan B. Wilde¹
¹*University of Georgia, Athens, GA*
²*U.S. Fish and Wildlife Service, Athens, GA*
- 11:10 am **Evidence for Novel Routes of Exposure to the Biotoxin Linked to Avian Vacuolar Myelinopathy (AVM) (Student Presentation)**
Shelley M. Robertson, Rebecca S. Haynie, and Susan B. Wilde
University of Georgia, Athens, GA
- 11:30 am **Naming the Wilde Stig: Final Morphological and Molecular Characterization of Novel Cyanobacterial Epiphyte Associated with Avian Vacuolar Myelinopathy**
Susan B. Wilde¹, Peng Jiang¹, Henry D. Wilde¹, and Jeffrey R. Johansson²
¹*University of Georgia, Athens, GA*
²*John Carroll University, University Heights, OH*
- 11:50 am **Satellite Remote Sensing of Submerged Aquatic Vegetation Status and Distribution in the Currituck Sound, North Carolina (Student Presentation)**
Brett M. Hartis and Stacy A. Nelson
North Carolina State University, Raleigh, NC
- 12:10 pm **Lunch on your own**

Session IV

1:40 pm - 5:10 pm
Ballroom AB

Moderator: Dr. Ryan Wersal – Mississippi State University

1:40 pm **Evaluation of Enhanced Data Processing and Cloud Data Hosting of SONAR Based Surveys**

(Student Presentation)

Justin J. Nawrocki, Sarah T. Meadows, Robert J. Richardson, and Steve T. Hoyle
North Carolina State University, Raleigh, NC

2:00 pm **Effects of the Aquatic Herbicide Endothall on Survival of Salmon and Steelhead Smolts during Seawater Transition**

Ian Courter¹ and Lauren Courter²

¹*Cramer Fish Sciences, Portland, OR*

²*Mount Hood Environmental, Portland, OR*

2:20 pm **Hybrid Watermilfoils Exhibit Reduced Sensitivity to 2,4-D in Comparison to Parental Eurasian Watermilfoil in a Laboratory Assay Experiment (Student Presentation)**

Elizabeth A. LaRue¹, Matthew P. Zuellig², Michael D. Netherland³, Mark A. Heilman⁴, and Ryan A. Thum¹

¹*Grand Valley State University, Muskegon, MI*

²*University of Georgia, Athens, GA*

³*U.S. Army Engineer Research and Development Center, Gainesville, FL*

⁴*SePRO Corporation, Carmel, IN*

2:40 pm **Weeds in the Water: An Assessment of Florida Boater & Angler Awareness, Attitudes, and Behavior Relating to Aquatic Invasive Species Issues and Prevention (Student Presentation)**

Kate Wilson, William Haller, and Tracy Irani

University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL

3:00 pm **Refreshment Break (Ballroom C - Foyer C)**

3:30 pm **Monoecious Hydrilla Phenology on Two North Carolina Lakes (Student Presentation)**

Sarah T. Meadows and Robert J. Richardson

North Carolina State University, Raleigh, NC

3:50 pm **Considering Monoecious Hydrilla Subterranean Turion Biology in Management Programs**

Robert J. Richardson

North Carolina State University, Raleigh, NC

4:10 pm **Factors that Influence Rapid Expansion of Hydrilla and the Implications for Management**

Michael D. Netherland

U.S. Army Engineer Research and Development Center, Gainesville, FL

4:30 pm **Release of SAVEWS Jr. Version 1.0 – Low-cost, Acoustic-based Aquatic Plant Mapping System**

Bruce M. Sabol and Eddie Melton

U.S. Army Engineer Research and Development Center, Vicksburg, MS

4:50 pm **Integrating Submerged Aquatic Vegetation Mapping with Aquatic Herbicide Treatments, Lake Tohopekaliga Florida**

Thomas J. McNabb

Clean Lakes, Incorporated, Kissimmee, FL

5:10 pm **Adjourn**

Wednesday, July 25

Wednesday's Agenda-at-a-Glance

- 7:30 am - 8:00 am Continental Breakfast (*Ballroom C- Foyer C*)
7:30 am - 10:30 pm Exhibits Open (*Ballroom C- Foyer C*)
7:30 am - 10:30 pm Posters Open (*Ballroom C- Foyer C*)
7:30 am - 12:00 pm Registration (*Foyer AB*)
8:00 am - 12:10 pm Session V (*Ballroom AB*)
10:00 am - 10:30 am Refreshment Break (*Ballroom C- Foyer C*)
10:30 am - 12:00 pm Poster and Exhibit Breakdown (*Ballroom C- Foyer C*)
12:30 pm - 5:00 pm APMS Board of Directors Meeting (*Snowbasin*)

Session V

8:00 am - 12:10 pm
Ballroom AB

Moderator: Dr. Linda Nelson - U.S. Army Engineer Research and Development Center

- 7:55 am **Opening Comments**
- 8:00 am **Targeted Algal Management: Some Case Studies**
John H. Rodgers, Jr.¹, Russell Brown², David Isaacs³, William Ratajczyk⁴, Keith Gazaille⁵, and James Schmidt⁴
¹*Clemson University, Clemson, SC*
²*City of Salem, Salem Water Works, Salem, IN*
³*Aquatic Control, Incorporated, Seymour, IN*
⁴*Applied Biochemists, Milwaukee, WI*
⁵*Aquatic Control Technologies, Sutton, MA*
- 8:20 am **Advanced Solutions for Combating Harmful Algal Infestations**
West M. Bishop¹, Mark A. Heilman², and Robert Johnson²
¹*SePRO Corporation, Whitakers, NC*
²*SePRO Corporation, Carmel, IN*
- 8:40 am **Absorption and Translocation of Granular and Liquid Triclopyr Formulations by Eurasian Watermilfoil**
Scott J. Nissen¹, Joseph D. Vassios², Tyler J. Koschnick³, and Mark A. Heilman³
¹*Colorado State University, Fort Collins, CO*
²*United Phosphorus, Incorporated, Sacramento, CA*
³*SePRO Corporation, Carmel, IN*
- 9:00 am **Bispyribac, Quinclorac, and Topramezone Absorption from Roots and Shoots of *Hydrilla verticillata***
Brett W. Bultemeier¹ and William T. Haller²
¹*Clarke Aquatic Services, Alachua, FL*
²*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*
- 9:20 am **Renovate™ (Triclopyr): A Decade of Selective Management and Continued Development**
Mark A. Heilman
SePRO Corporation, Carmel, IN
- 9:40 am **Plant Management in Florida Waters - Learn All About It...Online!**
Karen Brown
University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL
- 10:00 am **Refreshment Break** (*Ballroom C- Foyer C*)
- 10:30 am **Assessment of a New Hydroacoustic Habitat Mapping System for Quantitative Identification of Aquatic Macrophytes and Substrate Composition**
Eric Munday, Jannusz Burczynski, and Brian Moore
BioSonics, Incorporated, Seattle, WA
- 10:50 am **Commercial Application of Tradewind Herbicide in Florida Lakes: First Year Results**

Joseph R. Chamberlin¹, Mike Riffle², and James F. Petta³

¹*Valent Professional Products, Snellville, GA*

²*Valent Professional Products, Tallahassee, FL*

³*Valent Professional Products, Corpus Christi, TX*

11:10 am **How to Combat the Detrimental Effects of Eutrophication, Control Algae Blooms and Meet Water Quality Standards**

Seva I. Iwinski

Applied Polymer Systems, Woodstock, GA

11:30 am **Regional Chapter Updates – Moderator: Dr. Michael Netherland**

Western

Texas

South Carolina

Northeast

Midwest

Mid-South

Florida

12:00 pm **ADJOURN**

APMS Officers, Directors, Committee Chairs and Special Representatives

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