Letter from the President, Greg MacDonald

Please check your calendars and make sure the annual meeting for next month is top of the list! President-Elect Linda Nelson has put together a tremendous program, highlighted by an excellent special session on the NPDES issue. EPA has just released their draft permit for public comment, which is only until July 19, 2010. AERF and our partner RISE are working very hard to understand and provide reasonable comments, but time is of the essence. If you have suggestions or comments, please address them to Carlton Layne at AERF [http://www.aquatics.org/] as he is more familiar with this process. This will drastically change the way many of us operate, so I encourage you to provide input.

On a more positive note, please amke your hotel reservations for the Coconut Hyatt in Bonita Springs. There are instructions on our web site [apms.org] and the property is really gorgeous. There are only a few days left! Also remember to bring silent auction items for the scholastic endowment. Don Doggett and his crew have prepared some fun activities and there will also be some ‘special’ events to help commemorate this 50th year. We hope to have many past-presidents and other distinguished persons, so be prepared to visit with old friends, and of course make new ones.

As I close this letter, I remember attending my first APMS meeting as a graduate student in 1990 in Mobile, AL. David Sutton was president, Sonar was under experimental use permit, and the abstracts were printed on regular paper, stapled in the middle with a sky blue cover and no page numbers. We have come a long way since then; new herbicides, a fancy program with color prints and an actual index, and presentations with PowerPoint instead of slides. However, one thing still remains the same – our members. We are still the best in managing aquatic plants and in my opinion, we enjoy what we do more than any other group I have been involved. As we move forward into the next 50 years let us not forget what got us here – our passion, our enthusiasm and in many cases our friendships.

Most Sincerely,

Greg MacDonald,
APMS President 2009-2010

New biocontrol insect *Megamelus scutellaris* released on water hyacinth

Don C. Schmitz
Florida Fish and Wildlife Conservation Commission
After undergoing a rigorous screening and regulatory process, a new insect has been released by United States Department of Agriculture's Agricultural Research Service to control the South American water hyacinth (*Eichhornia crassipes*) in Florida. Dr. Phil Tipping, the project's lead researcher, joined representatives from the Florida Fish and Wildlife Conservation Commission (FWC) and the U.S. Army Corps of Engineers at a May 18, 2010 event celebrating the insect's release at the Edgefield Regional Stormwater Treatment Facility owned by the St. John's River Water Management District near Palatka, Fla. FWC provided more than $300,000 in financial support for this biological control research project.

*Megamelus scutellaris* is a small plant hopper native to South America whose nymphs and adults feed on the sap of water hyacinth and their damage apparently creates a choke point between the leaf and petiole interfering with translocation between the leaf and root system. High densities of *M. scutellaris* are uncommon in its native range in Argentina, where parasitoids are abundant. However, because it is protected from its natural enemies in Florida, *M. scutellaris* population will likely increase rapidly and enable it to quickly impact water hyacinth populations.

Various life stages of *Megamelus scutellaris*, a new biocontrol agent released for the management of waterhyacinth

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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](http://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](http://www.apms.org).

Thanks to Our 2010 Commercial Sustaining Members for Their Valuable Support to the APMS

- Applied Aquatic Management, Inc.
- Applied Biochemists
- Aquarius Systems
- Aquatic Control, Inc.
- BioSonics, Inc.
- Brewer International
- Clarke Aquatic Services, Inc.
- Cygnet Enterprises, Inc.
- Phoenix Environmental Care
2009 APMS New Officers and Directors Nominations

Biographical Information

Vice President: Terry L. Goldsby

Terry Goldsby is President and Senior Biologist of Aqua Services, Inc., an aquatic resource management company that he founded in 1982. He received his B.S degree in Zoology and his M.S. degree in Botany from Northwestern State University of Louisiana in 1973 and 1976, respectively. His career in aquatic plant management started in 1974 as an environmental specialist with Florida’s Bureau of Aquatic Plant Management and Control. From 1977 until 1983, he served as a research botanist with the Tennessee Valley Authority. He has been continuously involved in aquatic resource management for over 35 years, and, his two sons, Bryan and Troy, plan to continue the tradition by operating Aqua Services, Inc. in the future. Terry first joined the Aquatic Plant Management Society in 1975. He was the second president of the Midsouth Aquatic Plant Management Society in 1975. He is currently serving on the Board of Directors for this organization. In addition, he is a current member of the TAPMS, AERF, MSAPMS.

Director: John Madsen

Dr. John D. Madsen is an Associate Professor of Research and Extension in the Geosystems Research Institute and the Department of Plant and Soil Sciences, Mississippi State University. Dr. Madsen is responsible for coordinating research projects on invasive species in Mississippi, the southeastern US, and around the country. He is also responsible for education and outreach on invasive aquatic plants. Before joining the faculty of Mississippi State University in 2003, he was an Assistant Professor of Biology at the Minnesota State University, Mankato from 2000 to 2003; and a Research Biologist in the Environmental Laboratory, U.S. Army Engineer Research and Development Center, Waterways Experiment Station (WES), Vicksburg, MS from 1991 to 2000.

Dr. Madsen has a Bachelor of Science (1980) degree from Wheaton College, Wheaton, IL, and Master of Science (1982) and Doctor of Philosophy (1986) degree in Botany from the University of Wisconsin-Madison. Dr. Madsen is a past editor of the Journal of Aquatic Plant Management, past associate editor of Wetlands, and a former member of the editorial board of the Journal of Freshwater Ecology. He is currently an Associate Editor for the journal, Invasive Plant Science and Management.

His involvement in the Aquatic Plant Management Society includes Council for Agricultural Science and Technology representative, 2008- present (term expires 2011); editor and board member, 1997-2002; chair of the Student Affairs Committee, 1996-1997; and numerous committee memberships. He has also been active in the MidSouth Aquatic Plant Management Society and the Texas Aquatic Plant Management Society.

Director: Craig Aguillard

Craig Aguillard is currently the Aquatics Manager for Estes, Inc., a distributor based company in Irving, Texas. Supervision of field operations for aquatic plant management and coordination of aquatic specialists throughout the company are his main responsibilities. He received a Bachelor of Science degree from Louisiana State University in 1982 in Agronomy, majoring in crop production and soil management. During his 26 year career with the Pennwalt Corporation, (currently known as UPI) his responsibilities included the sales and development of the Agriculture and Aquatic line of products from Texas to the Carolinas. He served on the Board of Directors for the MSAPMS from 2002-2005 and was President from 2005-2006. He is currently serving on the Board of Directors for this organization. In addition, he is a current member of the TAPMS, AERF, MSAPMS.
Silent Auction Needs Donations!

Please consider making a donation to the Scholastic Endowment's Silent Auction which will take place at the July annual meeting. We want to have the most successful auction yet in honor of our 50th Anniversary! Past donation include GPS systems, watches, quilts, an iPod Touch, coolers, spa day certificates, fishing equipment, computer supplies, BBQ grills, a hand tooled wooden rocking chair – as you can see there are many levels of gifts. Be creative! Your donation – big or small – will help fund our Scholarship Program.

Please contact Susan Sweeney at susans@plmcorp.net or 248-937-1802 ext. 1103. Donations pledged before June 10 will be noted in our meeting program and posters.
<table>
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<th>Date:</th>
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<td>June 14-17, 2010</td>
<td>21st Annual Florida Lake Management Society (FLMS) Conference, Crystal River, FL</td>
<td><a href="http://www.flms.net">www.flms.net</a></td>
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<tr>
<td>June 27-Jul 2, 2010</td>
<td>Society of Wetland Scientist (SWS), Salt Lake, City, UT</td>
<td><a href="http://www.sws.org">www.sws.org</a></td>
</tr>
<tr>
<td>July 11-14, 2010</td>
<td>50th Annual Meeting, Aquatic Plant Management Society (APMS), Bonita Springs, FL</td>
<td><a href="http://www.apms.org">www.apms.org</a></td>
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<td>July 12-16, 2010</td>
<td>Greater Everglades Ecosystem Restoration (GEER), Naples, FL</td>
<td><a href="http://www.conference.ifas.ufl.edu/GEER2010">www.conference.ifas.ufl.edu/GEER2010</a></td>
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<tr>
<td>July 31-Aug 4, 2010</td>
<td>American Society of Plant Biologists (ASPB), Montreal, Canada</td>
<td><a href="http://www.aspb.org">www.aspb.org</a></td>
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<tr>
<td>Aug 1-6, 2010</td>
<td>95th Annual Meeting, Ecological Society of America (ESA), Pittsburgh, PA</td>
<td><a href="http://www.esa.org">www.esa.org</a></td>
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<tr>
<td>Dec 6-9, 2010</td>
<td>ACES, A Community of Ecosystems Services, Phoenix, AZ</td>
<td><a href="http://www.conference.ifas.ufl.edu">www.conference.ifas.ufl.edu</a></td>
</tr>
<tr>
<td>Feb 7-10, 2011</td>
<td>Weed Science Society of America, Portland, OR</td>
<td><a href="http://www.wssa.net">www.wssa.net</a></td>
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</table>
# 2010 APMS Officers, Directors, Committee Chairs and Special Representatives

## Offices

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Telephone</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Greg MacDonald</td>
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<tr>
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</tr>
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## Committee

<table>
<thead>
<tr>
<th>Role</th>
<th>Chair</th>
<th>Telephone</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Awards</td>
<td>Don Doggett</td>
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<td><a href="mailto:doggett@lchcd.org">doggett@lchcd.org</a></td>
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<tr>
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</tr>
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<td><a href="mailto:tylerk@sepro.com">tylerk@sepro.com</a></td>
</tr>
<tr>
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<td>(864) 656-0492</td>
<td><a href="mailto:jrodder@clemson.edu">jrodder@clemson.edu</a></td>
</tr>
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<td>(843) 991 8069</td>
<td><a href="mailto:hayniertes@uga.edu">hayniertes@uga.edu</a></td>
</tr>
<tr>
<td>Web Site</td>
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<td>(601) 634-2972</td>
<td><a href="mailto:michael.j.grodowitz@usace.army.mil">michael.j.grodowitz@usace.army.mil</a></td>
</tr>
</tbody>
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## Special Representatives

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Telephone</th>
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<tbody>
<tr>
<td>B.A.S.S. Representative</td>
<td>Gerald Adrian</td>
<td>(610) 594-1948</td>
<td><a href="mailto:gerald.adrian@uniphos.com">gerald.adrian@uniphos.com</a></td>
</tr>
<tr>
<td>C.A.S.T. Representative</td>
<td>John Madsen</td>
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<td><a href="mailto:jmadsen@gri.mstate.edu">jmadsen@gri.mstate.edu</a></td>
</tr>
<tr>
<td>N.A.L.M.S. Representative</td>
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<td>(352) 392-0335</td>
<td><a href="mailto:mdnether@ifas.ufl.edu">mdnether@ifas.ufl.edu</a></td>
</tr>
<tr>
<td>R.I.S.E. Representative</td>
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<td>(810) 744-0540</td>
<td><a href="mailto:jeobondra@sbglobal.net">jeobondra@sbglobal.net</a></td>
</tr>
<tr>
<td>W.S.S.A. Representative</td>
<td>Cody Gray</td>
<td>(719) 886 4708</td>
<td><a href="mailto:cody_gray@uniphos.com">cody_gray@uniphos.com</a></td>
</tr>
<tr>
<td>APMS Web Master</td>
<td>David Petty</td>
<td>(317) 838-7383</td>
<td><a href="mailto:dpetty@ndrsite.com">dpetty@ndrsite.com</a></td>
</tr>
<tr>
<td>Director of Science Policy</td>
<td>Lee Van Wychen</td>
<td>(202) 408-5388</td>
<td><a href="mailto:lee_vanwychen@wssa.net">lee_vanwychen@wssa.net</a></td>
</tr>
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## ACKNOWLEDGEMENTS

Special thanks to LeeAnn Glomski for review, assistance and guidance on this newsletter!
Glyphosate Resistance in Crops and Weeds: History, Development, and Management

Vijay K. Nandula (Editor)
978-0-470-41031-8 • Hardcover • 344 pages • August 2010 • $99.95

Presents the latest technology and strategies for managing glyphosate-resistant weeds

Glyphosate-resistant (GR) crop technology has revolutionized crop production in many parts of the world, offering such benefits as reduced fuel costs and improved soil conservation; however, GR weeds are becoming one of the most pressing problems in crop protection, threatening the sustainability of glyphosate and GR crop technology. This book details the development of glyphosate resistance, offering interdisciplinary approaches for managing GR weeds and reducing their spread.

Glyphosate Resistance in Crops and Weeds features contributions from leading experts in the many disciplines needed to fully understand GR crops and weeds. The authors have reviewed and analyzed all the latest research findings as well as the latest technologies developed to manage GR crops and weeds. Coverage includes:

• Developmental processes of first and subsequent generations of GR crops
• Separate chapter on the economic impact of GR weeds
• Strategies for effectively managing glyphosate resistance
• Regional management issues surrounding GR weeds around the world
• Genetics and genomics of glyphosate resistance
• Methods of testing for glyphosate resistance

References guide readers to the primary literature for further investigation of individual topics. A compilation of commonly used terms in herbicide resistance and their definitions is also provided.

With the productivity and health of croplands threatened around the world by GR weeds, this review of glyphosate resistance is essential for agricultural chemists, weed scientists, plant scientists, crop consultants, and agronomists.

VIJAY K. NANDULA, PhD, is an assistant research professor at Mississippi State University. His current research focuses on monitoring, documenting, and characterizing the herbicide-resistant weed populations in Mississippi, centering on their level of resistance, mechanisms, multiple resistance, and biology.

Ordering Information

North, Central & South America
Tel: 877.762.2974
Email: custserv@wiley.com
Internet: www.wiley.com

Europe, Middle East, Africa & Asia
Tel: +44 (0) 1243 843 294
Email: cs-books@wiley.co.uk
Internet: www.wiley europe.com

Germany, Switzerland, & Austria
Tel: +49 (0) 6201 606 400
Email: service@wiley-vch.de

Internet: www.wiley-vch.de
## Delegate/Student Information

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<thead>
<tr>
<th>Last Name:</th>
<th>First Name:</th>
<th>M.I:</th>
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<table>
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<tr>
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## Registration

*Includes Refreshment Breaks, President’s Reception, Poster Reception, and Banquet*

| | Early  
(by June 11, 2010) | On-site |
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<tr>
<td>Delegate Registration</td>
<td>$ 275.00</td>
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<tr>
<td>Student Paper Competition Registration</td>
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<tr>
<td>Regular Student Registration (non-competing)</td>
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**Guest Registration (spouse, partner, child over 12 years-of-age)
(\textit{also includes the Guest Tour})**

Name(s): $ 130.00 | $ 155.00 | $____

**Individual Special Event Tickets for Non-registered Guests**

| Event | Name(s): | Early  
(by June 11, 2010) | On-site |
<table>
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<tr>
<td>President’s Reception</td>
<td>$ 40.00</td>
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<tr>
<td>Guest Tour</td>
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<tr>
<td>Poster Reception</td>
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<tr>
<td>Banquet</td>
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## Total Registration Amount

$____

## Payment Method

*Check One*

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<tr>
<td>Check (Make Payable to APMS, Inc.)</td>
<td>Credit Card: [ ] Visa [ ] Master Card [ ] American Express</td>
</tr>
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</table>

Credit Card Number: __________________________ Expiration Date: __________________________

Name as it Appears on Card: __________________________ Signature of Card Holder: __________________________

**Send Completed Form and Payment to:**
The Aquatic Plant Management Society, Inc.
P.O. Box 821265
Vicksburg, MS 39182-1265
Fax: 601-634-2398

**Early registration accepted if form and payment received by June 11, 2010.**

**Registration questions,** please phone: 601-634-2990 or E-mail: Sherry.L.Whitaker@usace.army.mil

**Cancellation/Refund Policy**

Registration fees are fully refundable prior to June 30, 2010, less a $25.00 processing and handling fee. No refund of any fees will be issued if cancellation of participation is received after June 30, 2010. Notice of cancellation must be received by APMS via mail, fax, or e-mail. **Phone cancellations will not be accepted.**
Visit the APMS WEB SITE
www.apms.org

For members only features:  username = apms
                           password = duckweed
Sunday, July 11

Sunday’s Agenda-at-a-Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:30 am</td>
<td>APMS Board of Directors Meeting</td>
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<tr>
<td>12:00 pm</td>
<td>Exhibits Setup</td>
<td>Calusa D-H</td>
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<td>12:00 pm</td>
<td>Posters Setup</td>
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<tr>
<td>1:00 pm</td>
<td>Registration</td>
<td>Calusa Prefunction</td>
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<td>7:00 pm</td>
<td>President’s Reception</td>
<td>Waterfall Pool Deck</td>
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Sponsored by Valent USA Corporation

Monday, July 12

Monday’s Agenda-at-a-Glance

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:30 am</td>
<td>Continental Breakfast</td>
<td>Calusa D-H</td>
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<td>7:30 am</td>
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<td>Posters Open</td>
<td>Calusa D-H</td>
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<tr>
<td>8:00 am</td>
<td>Session I</td>
<td>Calusa A-C</td>
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<td>9:00 am</td>
<td>Guest Tour</td>
<td>Calusa A-C</td>
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<td>9:30 am</td>
<td>Refreshment Break</td>
<td>Calusa D-H</td>
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<td>12:00 pm</td>
<td>Lunch on Your Own</td>
<td>Calusa D-H</td>
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<td>12:00 pm</td>
<td>APMS Student Affairs Luncheon</td>
<td>Captiva</td>
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<td>12:00 pm</td>
<td>Aquatic Ecosystem Restoration Foundation Meeting</td>
<td>Great Egret</td>
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<tr>
<td>1:30 pm</td>
<td>Session II</td>
<td>Calusa A-C</td>
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<td>3:00 pm</td>
<td>Refreshment Break</td>
<td>Calusa D-H</td>
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<tr>
<td>6:00 pm</td>
<td>Poster Session and Reception</td>
<td>Calusa D-H</td>
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Sponsored by Applied Biochemists

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Sponsored by SePRO Corporation

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Sponsored by Syngenta Professional Products

Session I: APMS Past and Present, Special Session on NPDES Draft Rules, Guidance and Plans for Implementation

8:00 am - 12:00 pm

Calusa A-C

Moderator: Greg E. MacDonald, APMS President, Agronomy Department, University of Florida, Gainesville, Florida

8:00 am Welcome, Opening Remarks and Announcements

8:15 am Keynote Speaker

William T. Haller

Fifty Years of Aquatic Plant Management: A Historical Perspective

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

8:45 am Presidential Address

APMS - The Next Fifty Years

Greg E. MacDonald

Agronomy Department, University of Florida, Gainesville, Florida

9:10 am Washington Update

Lee Van Wychen

Weed Science Society of America, Washington, D.C.

9:30 am Refreshment Break (Calusa D-H)

10:00 am NPDES
Session II: How Regional Perspectives Influence the Approach Towards Hydrilla Management
1:30 pm - 5:30 pm
Calusa A-C
Moderator: Michael D. Netherland, APMS Editor 2005-2010, U.S. Army Engineer Research and Development Center, Gainesville, Florida

1:30 pm  Session Introduction – Goals and Purpose
Michael D. Netherland
U.S. Army Engineer Research and Development Center, Gainesville, Florida

1:40 pm  Adapting to Evolving Hydrilla Management Issues in Florida
Jeffrey D. Schardt
Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida

2:00 pm  Hydrilla Eradication vs. “Management” – Lessons from the Western United States
Lars W. J. Anderson
U.S. Department of Agriculture, Agricultural Research Service, Exotic and Invasive Weed Research, Davis, California

2:20 pm  Monoecious Hydrilla Biology, Distribution, and Management
Robert J. Richardson
Crop Science Department, North Carolina State University, Raleigh, North Carolina

2:40 pm  Managing Hydrilla with Triploid Grass Carp in Large Reservoirs
Steven J. de Kozlowski
South Carolina Department of Natural Resources (retired), Columbia, South Carolina

3:00 pm  Refreshment Break (Calusa D-H)

3:30 pm  Managing Hydrilla with Herbicides
William T. Haller
Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida

3:50 pm  Insect Biocontrols for Hydrilla
Ted Center
U.S. Department of Agriculture, Agricultural Research Service, Invasive Plant Research Laboratory, Fort Lauderdale, Florida

4:10 pm  A Workshop to Discuss Use of Registered Herbicides for Hydrilla Management in Florida Provides a Window into the Mind of Managers
Michael D. Netherland¹, William T. Haller², and Jeffrey D. Schardt³
¹U.S. Army Engineer Research and Development Center, Gainesville, Florida
²Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida
³Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida

4:30 pm  Hydrilla Management from a BASS Angler’s Perspective
Chris Horton
BASS/ESPN Outdoors, Lake Buena Vista, Florida
What Challenges Lie Ahead for Hydrilla Management?
John D. Madsen
Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi

Panel Discussion
All Session Presenters

Adjourn

Poster Session
6:00 pm - 7:30 pm
Calusa D-H

The IR-4 Project: Forerunner of the Future – Collaborative Aquatic Herbicide Registrations
Marija Arsenovic1, K. Getsinger2, J. Baron1, D. Kunkel1, J. Parochetti1, W. Haller1, D. Stubbs3, D. Kenny4, B. Madden5, S. Jackson6, J. Walz7, G. Adrian8, C. Gray9, J. Norton9, and R. Holm9
1IR-4 Project, Rutgers University, Princeton, New Jersey
2U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi
3U.S. Department of Agriculture, National Institute of Food and Agriculture, Washington, D.C.
4Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida
5U.S. Environmental Protection Agency, Washington, D.C. (retired)
6U.S. Environmental Protection Agency, Washington, D.C.
7United Phosphorus, Incorporated, King of Prussia, Pennsylvania
8Norton Agricultural Research Consulting Services, Edmond, Oklahoma
9IR-4 Project, Rutgers University, Princeton, New Jersey (retired)

Large-scale Hydrilla Treatment Monitoring in Central Florida (Student Poster)
Sarah Berger1, Jeremy G. Slade2, and Dean Jones3
1Agronomy Department, University of Florida, Gainesville, Florida
2Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida
3Osceola County Extension Services, University of Florida, Kissimmee, Florida

Hydrilla and Giant Salvinia Survey in Mississippi for 2009 (Student Poster)
Michael C. Cox, John D. Madsen, and Ryan M. Wersal
Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi

Using Deductive GIS Modeling Tools to Locate Suitable Macrophyte Habitat for Re-establishment Projects
Jonathan P. Fleming1,2, John D. Madsen2, and Eric D. Dibble1
1Department of Wildlife, Fisheries, and Aquaculture, Mississippi State University, Mississippi State, Mississippi
2Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi

Response of Selected Foliage Plants to Four Herbicides in Irrigation Water
Lyn A. Gettys and William T. Haller
Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida

Environmental Factors Contributing to Avian Vacuolar Myelinopathy and Stigonematales Abundance in J. Strom Thurmond Lake
James Herrin1, Michael Hook2, Rebecca Haynie1, John Kupfer3, and Susan Wilde1
1Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia
2Aquatic Nuisance Species Program, South Carolina Department of Natural Resources, West Columbia, South Carolina
3Department of Geography, University of South Carolina, Columbia, South Carolina

Raising Awareness Among Lake Users About Aquatic Weed Issues
Stacia Hetrick
Osceola County Extension Services, University of Florida, Kissimmee, Florida

A New Pocket Guide for Aquatic Plant Identification
Bridget Robinson Lassiter, Robert J. Richardson, and Gail Wilkerson
Crop Science Department, North Carolina State University, Raleigh, North Carolina

Allelopathic Effects of Cyanobacteria on Prymnesium parvum (Student Poster)
Michael Neisch1, Michael Masser2, Daniel Roelke1, James Grover1, and Bryan Brooks4
Biochemical and Physiological Studies to Optimize Imazamox Use Rates in Hydrilla
Atul Puri¹, William T. Haller¹, and Greg E. MacDonald²
¹Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida
²Agronomy Department, University of Florida, Gainesville, Florida

Attempts to Prevent Southern Naiad Growth in Arkansas Baitfish Ponds with the Application of Low Rates of Fluridone
George Selden
Aquaculture/Fisheries Center, University of Arkansas at Pine Bluff, Pine Bluff, Arkansas

Biology and Management of Rotala (Rotala rotundifolia) (Student Poster)
Courtney Stokes¹, Atul Puri², William T. Haller², and Greg E. MacDonald¹
¹Agronomy Department, University of Florida, Gainesville, Florida
²Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida

Absorption and Translocation of Fluridone, Penoxsulam, and Triclopyr by Eurasian Watermilfoil and Hydrilla (Student Poster)
Joseph D. Vassios¹, Scott J. Nissen¹, and Tyler J. Koschnick²
¹Department of Bioagricultural Sciences and Pest Management, Colorado State University, Fort Collins, Colorado
²SePRO Corporation, Carmel, Indiana

Water Conditions Affecting Growth and Reproduction of Pistia stratiotes
Ken-ichi Yamaguchi and Aya Shimizu
Minami Kyushu University, Miyazaki, Japan

Growth and Response of Photosynthesis of Alligator Weed (Alternanthera philoxeroides) Under High Manganese Stress
Jin-wen Zhu, Guo-nian Zhu, and Xue-xin Chen
College of Agriculture and Biotechnology, Zhejiang University, Hangzhou, P.R. China

Tuesday, July 14

Tuesday’s Agenda-at-a-Glance

6:30 am - 8:00 am APMS Regional Chapters Presidents’ Breakfast (Captiva)
Sponsored by Florida Aquatic Plant Management Society

7:30 am - 8:00 am Continental Breakfast (Calusa D-H)
Sponsored by Florida Aquatic Plant Management Society

7:30 am - 5:00 pm Registration (Calusa Prefunction)

7:30 am - 5:00 pm Exhibits Open (Calusa D-H)
7:30 am - 5:00 pm Posters Open (Calusa D-H)

8:00 am - 12:00 pm Session III (Calusa A-C)

10:00 am - 10:30 am Refreshment Break (Calusa D-H)
Sponsored by Vertex Water Features

12:00 pm - 1:30 pm Lunch on Your Own

12:00 pm - 1:30 pm APMS Past Presidents’ Luncheon (Captiva)
Sponsored by Phoenix Environmental Care, LLC

1:30 pm - 5:00 pm Session IV (Calusa A-C)

3:00 pm - 3:30 pm Refreshment Break (Calusa D-H)
Sponsored by Vertex Water Features

4:00 pm - 4:30 pm Regional Chapter Updates (Calusa A-C)

4:30 pm - 5:00 pm APMS Annual Business Meeting (Calusa A-C)

Session III
8:00 am - 12:00 pm
Calusa A-C


8:00 am Non-native Aquatic Plant Introductions in the Southeast: An Historical Perspective
8:15 am

Refining the New Zealand Aquatic Weed Risk Assessment for Florida and the U.S.

Doria R. Gordon1, Crysta A. Gantz2, Christopher L. Jerde3, and W. Lindsay Chadderton4
1The Nature Conservancy, University of Florida, Gainesville, Florida
2Department of Biology, University of Florida, Gainesville, Florida
3Center for Aquatic Conservation, University of Notre Dame, Notre Dame, Indiana
4The Nature Conservancy, University of Notre Dame, Notre Dame, Indiana

8:30 am

Identifying Unique Biotypes of Eurasian Watermilfoil Using a Genetic Fingerprinting Method (Student Presentation)

Matthew Zuellig and Ryan Thum
Annis Water Resources Institute, Grand Valley State University, Muskegon, Michigan

8:45 am

Morphological and Genetic Taxonomic Analysis of Native and Nonnative Watermilfoil in Reservoirs of the Lower Clark Fork River System

John Madsen1, Joshua C. Chesier1, Vipaporn Phuntumart2, and Ryan Thum3
1Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi
2Department of Biological Sciences, Bowling Green University, Bowling Green, Ohio
3Annis Water Resources Institute, Grand Valley State University, Muskegon, Michigan

9:00 am

Uncovering Even More Genetic Diversity and Hybridization in Variable-leaf Watermilfoil and its Close Allies

Ryan Thum and Matthew Zuellig
Annis Water Resources Institute, Grand Valley State University, Muskegon, Michigan

9:15 am

Eurasian Watermilfoil Response to Imazamox (Student Presentation)

Trevor D. Israel, Robert J. Richardson, and Steve T. Hoyle
Crop Science Department, North Carolina State University, Raleigh, North Carolina

9:30 am

Development of Galleon™ and Clearcast™ for Control of the Exotic Submersed Weeds Potamogeton crispus (Curly Leaf Pondweed) and Myriophyllum spicatum (Eurasian Watermilfoil)

Mark A. Heilman1, Tyler J. Koschnick1, Todd Horton2, Cole Hulon3, and Bob Johnson4
1SePRO Corporation, Carmel, Indiana
2SePRO Corporation, Anderson, South Carolina
3SePRO Corporation, Whitakers, North Carolina
4SePRO Corporation, Brownstown, Indiana

9:45 am

Sampling of Herbicide Residuals Confirms Extended Exposure to Low Concentrations of 2,4-D and Triclopyr Can Control Eurasian Watermilfoil

LeeAnn M. Glomski1, Michael D. Netherland2, and John D. Skogerbø3
1U.S. Army Engineer Research and Development Center, Lewisville, Texas
2U.S. Army Engineer Research and Development Center, Gainesville, Florida
3U.S. Army Engineer Research and Development Center, Spring Valley, Wisconsin

10:00 am

Refreshment Break (Calusa D-H)

10:30 am

Response of Native Macrophyte Communities to Early Season Herbicide Treatments of Potamogeton crispus (Curly Leaf Pondweed) (Student Presentation)

Ajay R. Jones, James A. Johnson, and Raymond M. Newman
Department of Fisheries, Wildlife, and Conservation Biology, University of Minnesota, St. Paul, Minnesota

10:45 am

Evaluation of Winter and Summer Drawdowns for Control of the Non-Native Aquatic Plant Myriophyllum aquaticum (Vell.) Verdc.

Ryan M. Wersal and John D. Madsen
Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi

11:00 am

A History of Hydrilla in North Carolina

Steve T. Hoyle and Robert J. Richardson
Crop Science Department, North Carolina State University, Raleigh, North Carolina

11:15 am

Monoecious Hydrilla Response to Endothall (Student Presentation)
11:30 am  Efficacy and Selectivity of Large-scale Herbicide Treatments for Hydrilla Control on the Kissimmee Chain of Lakes, Florida  
Jeremy G. Slade¹, Dean Jones², and Michael D. Netherland³  
¹Center for Aquatic and Invasive Plants, University of Florida, Gainesville Florida  
²Osceola County Extension Services, Kissimmee, Florida  
³U.S. Army Engineer Research and Development Center, Gainesville, Florida

11:45 am  Tradewind Herbicide: Summary of EUP and Laboratory Studies  
Joe Chamberlin  
Valent USA Corporation, Snellville, Georgia

12:00 pm  Lunch On Your Own
Regional Chapter Updates (Calusa A-C)
Brazil, Florida, MidSouth, Midwest, Northeast, South Carolina, Texas, Western

4:00 pm

APMS Annual Business Meeting (Calusa A-C)

5:00 pm

Adjourn

Wednesday, July 14

Wednesday’s Agenda-at-a-Glance

7:30 am - 8:00 am Continental Breakfast (Calusa D-H)
Sponsored by Florida Aquatic Plant Management Society

7:30 am - 3:00 pm Registration (Calusa Prefunction)

7:30 am - 3:00 pm Exhibits Open (Calusa D-H)

7:30 am - 3:00 pm Posters Open (Calusa D-H)

8:00 am - 12:00 pm Session V (Calusa A-C)

9:45 am - 10:15 am Refreshment Break (Calusa D-H)
Sponsored by Crop Production Services

12:00 am - 1:30 pm Lunch on Your Own

1:30 pm - 4:45 pm Session VI (Calusa A-C)

3:00 pm - 3:30 pm Refreshment Break (Calusa D-H)
Sponsored by Brewer International

3:00 pm - 5:00 pm Exhibits Teardown (Calusa D-H)

3:00 pm - 5:00 pm Posters Teardown (Calusa D-H)

6:00 pm - 7:00 pm Reception (Calusa Prefunction)
Co-sponsored by Aquatic Systems and Aquatic Control, Incorporated

7:00 pm - 11:00 pm Awards Banquet (Calusa A-C)
Sponsored by United Phosphorus, Incorporated

Session V
8:00 am - 12:00 pm
Calusa A-C

Moderator: Steven J. de Kozlowski, 1995 APMS President, South Carolina Department of Natural Resources (retired), Columbia, South Carolina

8:00 am Evaluation of Alligatorweed (Alternanthera philoxeroides [Mart.] Griseb.) Control with Nine Different Herbicides (Student Presentation)
Michael C. Cox, John D. Madsen, and Ryan M. Wersal
Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi

8:15 am Progress in Controlling Giant Salvinia in Louisiana
Dearl Sanders1, Wendell Lorio2 and Alex Perret3
1Louisiana AgCenter, Louisiana State University, Clinton, Louisiana
2Louisiana AgCenter, Louisiana State University, Luling, Louisiana
3Louisiana Department of Wildlife and Fisheries, Baton Rouge, Louisiana

8:30 am Response of Giant Salvinia to Static and Sequential Penoxsulam Treatments Coupled with Various Exposure Times
Christopher R. Mudge1, Linda S. Nelson1, and Mark A. Heilman2
1U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi
2SePRO Corporation, Carmel, Indiana

8:45 am Release Dynamics of Granular Herbicides in an Aquatic Environment (Student Presentation)
Brett W. Bultemeier and William T. Haller
Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida

9:00 am Endothall Use for Eradication of Aquatic Weeds in New Zealand
Paul D. Champion and Rohan D. S. Wells
National Institute of Water and Atmospheric Research, Hamilton, New Zealand

9:15 am Developing Hydrogel for Selective Management of Submerged Aquatic Weeds
Nimal Chandrasena1, Peter Harper2, and Bill Chisholm3
1Louisiana AgCenter, Louisiana State University, Clinton, Louisiana
2Louisiana AgCenter, Louisiana State University, Luling, Louisiana
3Louisiana Department of Wildlife and Fisheries, Baton Rouge, Louisiana
9:30 pm  
**Evaluation of Six Herbicides for the Control of Water Primrose (Ludwigia peploides (Kunth) P. H. Raven spp. peploides) (Student Presentation)**  
Joshua C. Cheshier, Ryan M. Wersal, and John D. Madsen  
Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi

9:45 am  
**Refreshment Break (Calusa D-H)**

10:15 am  
**Charophyte Response to Herbicide and Mycoherbicide Treatment (Student Presentation)**  
Chrzystal Kelly¹, David Hamilton¹, Mary de Winton², and Deborah Hofstra²  
¹Department of Biological Sciences, University of Waikato, Hamilton, New Zealand  
²National Institute of Water and Atmospheric Research, Hamilton, New Zealand

10:30 am  
**Algae on the Move: Recent Range Expansion of Prymnesium parvum**  
John H. Rodgers, Jr., West M. Bishop, and Brenda M. Johnson  
Department of Forestry and Natural Resources, Clemson University, Clemson, South Carolina

10:45 am  
**Responses of Lyngbya wollei to Copper-Based Algaecides: The Critical Burden Concept (Student Presentation)**  
West M. Bishop and John H. Rodgers, Jr.  
Department of Forestry and Natural Resources, Clemson University, Clemson, South Carolina

11:00 am  
**Investigations of Hydrilla, Toxic Cyanobacteria, Invasive Apple Snails and Potential for Toxin Transfer to Birds of Prey in Florida**  
Susan B. Wilde, Rebecca S. Haynie, and James Herrin  
Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia

11:15 am  
**On Ultrasound and Algae**  
Jonathan R. Newman  
Aquatic Plant Management Group, Centre for Ecology and Hydrology, CEH Wallingford, Crowmarsh Gifford, Wallingford, Oxon, United Kingdom

11:30 am  
**How to Reduce the Negative Effects of Turbidity, Control Algae Blooms and Meet Water Quality Standards**  
Seva Iwinski  
Applied Polymer Systems, Woodstock, Georgia

11:45 am  
**The Human Dimension of Nuisance Aquatic Species Management: An Investigation of Georgia Boaters (Student Presentation)**  
James Herrin, Susan B. Wilde, and Craig Miller  
Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia

12:00 pm  
**Lunch on Your Own**

**Session VI**  
1:30 pm - 4:45 pm  
Calusa A-C

**Moderator:** Kurt D. Getsinger, 1997 APMS President, U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi

1:30 pm  
**The Age of Partnership: Weed Science and the U.S. Environmental Protection Agency**  
Kurt D. Getsinger¹, Jill Schroeder², Dan Kenny³, and Lee Van Wychen⁴  
¹U.S. Engineer Research and Development Center, Vicksburg, Mississippi  
²New Mexico State University, Las Cruces, New Mexico  
³U.S. Environmental Protection Agency, Washington, D.C.  
⁴Weed Science Society of America, Washington, D.C.

1:45 pm  
**Evaluation of Imazamox for Control of Wild Taro (Colocasia esculenta) in Lake Okeechobee, Florida**  
Mike Bodle  
South Florida Water Management District, West Palm Beach, Florida

2:00 pm  
**Research and Testing of a System for Precision Littoral Zone Application of Aquatic Herbicide**
2:15 pm  Mapping the Distribution of Invasive Aquatic Plants in Puerto Rico
Wilfredo Robles and Victor M. Gonzáles
Department of Crops and Agroenvironmental Sciences, University of Puerto Rico, Mayaguez, Puerto Rico

2:30 pm  High-density Aquatic Vegetation Baseline Surveys of the Kissimmee Chain of Lakes and Lake Istopoga: Results and Implications for Habitat and Invasive Vegetation Management
Ryan Moore1, Jeremy G. Slade2, and Dean Jones3
1ReMetrix, LLC, Lakeland, Florida
2Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida
3Osceola County Extension Services, Kissimmee, Florida

2:45 pm  Initial Attempts to Restore Native Plants after Carp Removal in a Twin Cities Minnesota Lake
Raymond M. Newman and James A. Johnson
Department of Fisheries, Wildlife and Conservation Biology, University of Minnesota, St. Paul, Minnesota

3:00 pm  Refreshment Break (Calusa D-H)

3:30 pm  The Future of Aquatic Invasive Species Management at Lake Tahoe: A Consilience of Science and Public Trust
Lars W. J. Anderson
U.S. Department of Agriculture, Agricultural Research Service, Exotic and Invasive Weed Research, Davis, California

3:45 pm  Clientele Evaluation of the AQUAPLANT Web Site
Michael P. Masser and Satoshi Kamata
Texas AgriLife Extension, Texas A&M University, College Station, Texas

4:00 pm  Aluminum Sulfate Application to Improve Under-water Light Condition for Native Submersed Macrophyte Restoration: Alum to Phosphorus Binding Ratio Considerations
William F. James
U.S. Engineer Research and Development Center, Eau Galle Aquatic Ecology Laboratory, Spring Valley, Wisconsin

4:15 pm  Nutrient Reduction and Recovery in a South Florida Retention Pond through Manipulation of Artificial Destratification Aeration
Amanda Quillen
Vertex Water Features, Pompano, Beach, Florida

4:30 pm  Aquatic Weed Problems in Sri Lanka – A Review of Current Status and Planning for Effective Management
Nimal Chandrasena
ALS Environmental, Penrith, New South Wales, Australia

4:45 pm  Closing Remarks and Adjourn 50th Annual Meeting
Greg E. MacDonald
Agronomy Department, University of Florida, Gainesville, Florida

6:00 pm  Reception (Calusa Prefunction)

7:00 pm  APMS Annual Awards Banquet (Calusa A-C)
Thursday’s Agenda-at-a-Glance

7:30 am - 12:00 pm APMS Board of Directors Meeting (Captiva)

NEXT YEAR
51st Annual Meeting
Northeast U.S. Location TBA
July 2011