



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 94 June 2010

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

Letter from the President, 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 make 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

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.

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

Applied Aquatic Management, Inc.
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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 and continues to participate as a sustaining member. He lives in New Market, Alabama with his wife of 17 years, Darlon, and his daughter, Sumer.

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.

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.

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 donations 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.



~ CALENDAR OF EVENTS ~

Date:	Event:	Contact/Go to:
June 1-4, 2010	2010 Weeds Across Borders, Shepherdstown, WV	www.weedcenter.org/wab2010
June 14-17, 2010	21 st Annual Florida Lake Management Society (FLMS) Conference, Crystal River, FL	www.flms.net
June 27-Jul 2, 2010	Society of Wetland Scientist (SWS), Salt Lake, City, UT	www.sws.org
July 11-14, 2010	50 th Annual Meeting, Aquatic Plant Management Society (APMS), Bonita Springs, FL	www.apms.org
July 12-16, 2010	Greater Everglades Ecosystem Restoration (GEER), Naples, FL	www.conference.ifas.ufl.edu/GEER2010
July 31-Aug 4, 2010	American Society of Plant Biologists (ASPB), Montreal, Canada	www.aspb.org
Aug 1-6, 2010	95 th Annual Meeting, Ecological Society of America (ESA), Pittsburgh, PA	www.esa.org
Sept 12-16, 2010	140 th Annual Meeting of the American Fisheries Society, (AFS), Pittsburgh, PA	www.fisheries.org/afs10
Nov 3-5, 2010	30 th Annual International Symposium, North American Lake Management Society (NALMS), Oklahoma City, OK	www.nalms.org
Dec 6-9, 2010	ACES, A Community of Ecosystems Services, Phoenix, AZ	www.conference.ifas.ufl.edu
Feb 7-10, 2011	Weed Science Society of America, Portland, OR	www.wssa.net

2010 APMS Officers, Directors, Committee Chairs and Special Representatives

<u>Office</u>	<u>Name</u>	<u>Telephone</u>	<u>E-mail</u>
President	Greg MacDonald	(352) 392-1811	pineacre@ufl.edu
Immediate Past President	Carlton Layne	(678) 773-1364	layn1111@bellsouth.net
President Elect	Linda Nelson	(601) 634-2656	Linda.S.Nelson@usace.army.mil
Vice President	Tyler Koschnick	(317) 216-8280	tylerk@sepro.com
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Student Representative	Brett Bultemeier	(352) 392-5126	brett_bultemeier@yahoo.com

<u>Committee</u>	<u>Chair</u>	<u>Telephone</u>	<u>E-mail</u>
Awards	Don Doggett	(239)848-6774	doggett@lchcd.org
Bylaws and Resolutions	Jim Schmidt	(800) 558-5106; x305	jimschmidt@appliedbiochemists.com
Education and Outreach	Susan Wilde	(706) 542-3346	swilde@warnell.uga.edu
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Past President's Advisory Program	Carlton Layne	(678) 773-1364	layn1111@bellsouth.net
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Regional Chapters	Michael D. Netherland	(352) 392-0335	mdnether@ifas.ufl.edu
Scholastic Endowment	Tyler Koschnick	(317) 216-8280	tylerk@sepro.com
Strategic Planning	Chris Cheek	(810) 217-0028	chris@prolakemgmt.com
Student Affairs	John Rodgers, Jr.	(864) 656-0492	jrodger@clemson.edu
Web Site	Rebecca Haynie	(843) 991 8069	hayniers@uga.edu
	Michael Grodowitz	(601) 634-2972	michael.j.grodowitz@usace.army.mil

Special Representatives

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

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.

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50th Annual Meeting of the APMS Registration Form

Delegate/Student Information

Last Name: _____ First Name: _____ M.I.: _____
 Affiliation: _____
 Address: _____
 City: _____ State/Province: _____ Zip/Postal Code: _____
 Country: _____ E-mail Address: _____
 Phone: _____ Fax: _____

Registration (Includes Refreshment Breaks, President's Reception, Poster Reception, and Banquet)

	Early <i>(by June 11, 2010)</i>	On-site	
<input type="checkbox"/> Delegate Registration	\$ 275.00	\$ 325.00	\$ _____
<input type="checkbox"/> Student Paper Competition Registration	\$ 0.00	\$ 0.00	\$ _____ 0.00
<input type="checkbox"/> Regular Student Registration (non-competing)	\$ 75.00	\$ 75.00	\$ _____
<input type="checkbox"/> Guest Registration (spouse, partner, child over 12 years-of-age) <i>(also includes the Guest Tour)</i>			
Name(s): _____	\$ 130.00	\$ 155.00	\$ _____
Individual Special Event Tickets for Non-registered Guests			
<input type="checkbox"/> President's Reception Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Guest Tour Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Poster Reception Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Banquet Name(s): _____	\$ 55.00	\$ 65.00	\$ _____

Total Registration Amount \$ _____

Payment Method (Check One)

Check (Make Payable to APMS, Inc.) Credit Card: Visa Master Card American Express

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

Pre-Final Program

Sunday, July 11

Sunday's Agenda-at-a-Glance

- 7:30 am - 5:00 pm APMS Board of Directors Meeting (*Captiva*)
12:00 pm - 5:00 pm Exhibits Setup (*Calusa D-H*)
12:00 pm - 5:00 pm Posters Setup (*Calusa D-H*)
1:00 pm - 5:00 pm Registration (*Calusa Prefunction*)
7:00 pm - 9:00 pm President's Reception (*Waterfall Pool Deck*)
Sponsored by Valent USA Corporation

Monday, July 12

Monday'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 - 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 I (*Calusa A-C*)
9:00 am - 2:00 pm Guest Tour
Sponsored by Applied Biochemists
9:30 am - 10:00 am Refreshment Break (*Calusa D-H*)
Sponsored by Helena Chemical Company
12:00 pm - 1:30 pm Lunch on Your Own
12:00 pm - 1:30 pm APMS Student Affairs Luncheon (*Captiva*)
Sponsored by SePRO Corporation
12:00 pm - 1:30 pm Aquatic Ecosystem Restoration Foundation Meeting (*Great Egret*)
1:30 pm - 5:30 pm Session II (*Calusa A-C*)
3:00 pm - 3:30 pm Refreshment Break (*Calusa D-H*)
Sponsored by Helena Chemical Company
6:00 pm - 7:30 pm Poster Session and Reception (*Calusa D-H*)
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**

Allison Wiedeman

Water Permits Division, U.S. Environmental Protection Agency, Washington, D.C.

- 10:30 am **Steps Toward Implementing NPDES Regulations in Florida**
Jeffrey D. Schardt
Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida
- 11:00 am **Ten Years of NPDES Permitting and Water Monitoring in California: A Permittee's Perspective**
Robert Leavitt
California Department of Food and Agriculture, Sacramento, California
- 11:30 am **NPDES Panel Discussion**
All NPDES Session Presenters
- 12:00 pm **Lunch on Your Own**

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
¹*U.S. Army Engineer Research and Development Center, Gainesville, Florida*
²*Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida*
³*Florida 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

- 4:50 pm **What Challenges Lie Ahead for Hydrilla Management?**
John D. Madsen
Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi
- 5:10 pm **Panel Discussion**
All Session Presenters
- 5:30 pm **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. Parochetti³, W. Haller⁴, D. Stubbs⁵, D. Kenny⁶, B. Madden⁶, S. Jackson⁶, J. Walz⁷, G. Adrian⁷, C. Gray⁷, J. Norton⁸, and R. Holm⁹

¹*IR-4 Project, Rutgers University, Princeton, New Jersey*

²*U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi*

³*U.S. Department of Agriculture, National Institute of Food and Agriculture, Washington, D.C.*

⁴*Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida*

⁵*U.S. Environmental Protection Agency, Washington, D.C. (retired)*

⁶*U.S. Environmental Protection Agency, Washington, D.C.*

⁷*United Phosphorus, Incorporated, King of Prussia, Pennsylvania*

⁸*Norton Agricultural Research Consulting Services, Edmond, Oklahoma*

⁹*IR-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

¹*Agronomy Department, University of Florida, Gainesville, Florida*

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

³*Osceola 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. Fleming^{1,2}, John D. Madsen², and Eric D. Dibble¹

¹*Department of Wildlife, Fisheries, and Aquaculture, Mississippi State University, Mississippi State, Mississippi*

²*Geosystems 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

¹*Daniel B. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, Georgia*

²*Aquatic Nuisance Species Program, South Carolina Department of Natural Resources, West Columbia, South Carolina*

³*Department 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 Grover³, and Bryan Brooks⁴

¹Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas

²Texas AgriLife Extension, Texas A&M University, College Station, Texas

³University of Texas-Arlington, Arlington, Texas

⁴Department of Environmental Science, Baylor University, Waco, Texas

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 Kysushu 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

Moderator: Ken L. Manuel, 2004 APMS President, Duke Energy, Huntersville, North Carolina

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

Don C. Schmitz

Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida

- 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
¹*The Nature Conservancy, University of Florida, Gainesville, Florida*
²*Department of Biology, University of Florida, Gainesville, Florida*
³*Center for Aquatic Conservation, University of Notre Dame, Notre Dame, Indiana*
⁴*The 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
¹*Geosystems Research Institute, Mississippi State University, Mississippi State, Mississippi*
²*Department of Biological Sciences, Bowling Green University, Bowling Green, Ohio*
³*Annis 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
¹*SePRO Corporation, Carmel, Indiana*
²*SePRO Corporation, Anderson, South Carolina*
³*SePRO Corporation, Whitakers, North Carolina*
⁴*SePRO 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. Skogerboe³
¹*U.S. Army Engineer Research and Development Center, Lewisville, Texas*
²*U.S. Army Engineer Research and Development Center, Gainesville, Florida*
³*U.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* (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 Endothal (Student Presentation)**

Sarah L. True, Robert J. Richardson, Justin J. Nawrocki, and Steve T. Hoyle
Crop Science Department, North Carolina State University, Raleigh, North Carolina

- 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
¹*Center for Aquatic and Invasive Plants, University of Florida, Gainesville Florida*
²*Osceola County Extension Services, Kissimmee, Florida*
³*U.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**

Session IV

1:30 pm - 5:00 pm
Calusa A-C

Moderator: Jim Schmidt, 2001 APMS President, Applied Biochemists, Germantown, Wisconsin

- 1:30 pm ***Phragmites australis* in Florida: Native or Introduced?**
Rodrigo Diaz¹, Megan Hanson², Dean Williams², and William A. Overholt¹
¹*Biological Control Research and Contaminant Laboratory, University of Florida, Fort Pierce, Florida*
²*Department of Biology, Texas Christian University, Fort Worth, Texas*
- 1:45 pm **Japanese Knotweed Control with Aquatic Herbicides (Student Presentation)**
Rory L. Roten¹, Robert J. Richardson¹, and Lloyd P. Hipkins²
¹*Crop Science Department, North Carolina State University, Raleigh, North Carolina*
²*Department of Plant Pathology, Physiology, and Weed Science, Virginia Tech, Blacksburg, Virginia*
- 2:00 pm **Evaluation of Aquatic-use Herbicides for Japanese Stiltgrass Control**
Karen R. Hall¹, Robert J. Richardson², and Steve T. Hoyle²
¹*Biological and Agricultural Engineering Department, North Carolina State University, Raleigh, North Carolina*
²*Crop Science Department, North Carolina State University, Raleigh, North Carolina*
- 2:15 pm **Prospects for Classical Biological Control of the Federal Noxious Weed *Hygrophila polysperma* (Roxb.) T. Anders**
James P. Cuda¹, Abhishek Mukherjee¹, and William A. Overholt²
¹*Department of Entomology and Nematology, University of Florida, Gainesville, Florida*
²*Biological Control Research and Contaminant Laboratory, University of Florida, Fort Pierce, Florida*
- 2:30 pm **Overwintering Habitat Requirements of the Native Milfoil Weevil, *Euhrychiopsis lecontei*, in McDill Pond, Portage County, Wisconsin (Student Presentation)**
Amy T. Thorstenson¹, Ronald L. Crunkilton¹, Michael A. Bozek¹, and Nancy Turyk²
¹*College of Natural Resources, University of Wisconsin-Stevens Point, Stevens Point, Wisconsin*
²*Center for Watershed Science and Education, University of Wisconsin-Stevens Point, Stevens Point, Wisconsin*
- 2:45 pm **Activity Enhancement of Weevils, *Neochetina* spp. for Improved Management of *Eichhornia crassipes***
Puja Ray¹, Akhilesh Kumar Pandey¹, and Sushilkumar²
¹*Mycological Research Laboratory, Department of Biological Science, R. D. University, Jabalpur, India*
²*Directorate of Weed Science Research Centre, Maharajpur, Jabalpur (M. P.) India*
- 3:00 pm **Refreshment Break (Calusa D-H)**
- 3:30 pm **Responses of Cabomba and Other Weeds to Flumioxazin (Student Presentation)**
Justin J. Nawrocki, Robert J. Richardson, and Sarah L. True
Crop Science Department, North Carolina State University, Raleigh, North Carolina
- 3:45 pm **Results from Two Years of EUP Trials with Clipper Aquatic Herbicide**
Jason Fausey

Valent USA Corporation, Fremont, Ohio

- 4:00 pm **Regional Chapter Updates** (*Calusa A-C*)
Brazil, Florida, MidSouth, Midwest, Northeast, South Carolina, Texas, Western
- 4:30 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
¹*Louisiana AgCenter, Louisiana State University, Clinton, Louisiana*
²*Louisiana AgCenter, Louisiana State University, Luling, Louisiana*
³*Louisiana 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
¹*U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi*
²*SePRO 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

- ¹ALS Environmental, Penrith, New South Wales, Australia
²Bettersafe Pest & Weed Management, Ingleburn, New South Wales, Australia
³Aquatic Weed Control, Ltd., Dunedin, New Zealand
- 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)**
Chrystal Kelly¹, David Hamilton¹, Mary de Winton², and Deborah Hofstra²
¹*Department of Biological Sciences, University of Waikato, Hamilton, New Zealand*
²*National 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 Algacides: 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
¹*U.S. Engineer Research and Development Center, Vicksburg, Mississippi*
²*New Mexico State University, Las Cruces, New Mexico*
³*U.S. Environmental Protection Agency, Washington, D.C.*
⁴*Weed 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**

Thomas McNabb¹, Thomas Moorhouse², and Bruce Sabol³

¹*Clean Lakes, Incorporated, Coeur d'Alene, Idaho*

²*Clean Lakes, Incorporated, Westlake Village, California*

³*U.S. Engineer Research and Development Center, Vicksburg, Mississippi*

- 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
¹*ReMetrix, LLC, Lakeland, Florida*
²*Center for Aquatic and Invasive Plants, University of Florida, Gainesville, Florida*
³*Osceola 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, July 15

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**