



# 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 97 June 2011

**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"

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## ***Baltimore, Maryland Site of the 51<sup>st</sup> APMS Annual Meeting***

The time is here to make your hotel reservations and register for the 51<sup>st</sup> Annual Meeting of the Aquatic Plant Management Society. This year the APMS meeting is being held in Baltimore, Maryland. **Make your arrangements by June 24, 2011** and join your friends at the Hyatt Regency Baltimore on the Inner Harbor, July 24-27, 2011. The Pre-final Program is available in this newsletter.

The Meeting Planning Committee has been very busy arranging exciting special events for all attendees. This year's special events include the President's Reception, Poster Session Reception, and Banquet. Join your friends and colleagues at the President's Reception on Sunday night for the traditional "kick-off" of our annual meeting. The Poster Session Reception on Monday evening will provide for the viewing of posters and professional interactions/discussions in a casual setting. This year the Banquet on Tuesday evening will take place on the Spirit of Baltimore cruise ship and will once again prove to be another memorable event. After dinner we will recognize those who have served and contributed to our Society, welcome new officers and directors, and present student paper and other awards. And to bring our night to an end we will take pleasure in watching or participating in the grand prize reverse raffle. These special events are free to all registered delegates, students, and guests. Non-registered guests may purchase individual tickets for these events at the registration desk.

Another exciting special event being planned is the Guest Tour on Monday. This year we have planned a visit to sites in the historic neighborhood of Fells Point. The tour begins with shopping in the eclectic stores and art galleries found along the cobblestone streets. Following the shopping, guests will take part in a true culinary adventure of specially made dishes at unique family owned restaurants. The Guest Tour is free to all registered guests. Non-registered guests may purchase tickets for this event at the registration desk.

To make your hotel reservation you can go online at [https://resweb.passkey.com/Resweb.do?mode=welcome\\_ei\\_new&eventID=3061957](https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=3061957) or call the Hyatt Regency Baltimore directly at 410-528-1234. 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 24, 2011.** Our special APMS guest room rate is \$159.00 for single and double occupancy per night plus applicable tax, currently 15.5%. The Hyatt Regency Baltimore 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 4:00 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. Overnight valet parking is \$36.00 per day and self-parking is \$27.00 per day, with in and out privileges.

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 24, 2011. **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 Banquet. Guest registration includes President's Reception, refreshment breaks, Guest Tour, Poster Reception, and Banquet. Non-registered guests may purchase individual tickets for these events.** Please help us in planning for the meeting events by completing the Registration Form and submitting it prior to June 24, 2011.

Ground transportation between the Baltimore-Washington International Airport (BWI) and the Hyatt Regency Baltimore is available by shuttle or taxi. Super Shuttle pick-up is every 30 minutes at the ground transportation desk in baggage claim areas 3, 4, and 5. Look for the blue vans with yellow lettering saying Super Shuttle. Hours are 6:00 a.m. to 2:00 a.m. and the cost is \$13.00 each way. For Super Shuttle service call 800-258-3826

to reserve in advance. Taxi service is available on a first come, first serve basis from the lower level curbside of all terminals. All taxis are metered and the cost from BWI to the Hyatt Regency Baltimore is approximately \$35.00.

This will be an extraordinary meeting, so plan to come and bring the family. Baltimore awaits you! **Remember June 24, 2011 is the cutoff date for making your hotel reservation at the special group rate and the last day to receive the reduced meeting registration fees.**



## 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](mailto: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).

## **Scholastic Endowment Silent Auction Fund Raiser**

Please consider donating an item to this year's Scholastic Endowment's Silent Auction which will take place in July at our annual meeting in Baltimore. The Silent Auction has continued to be a successful fund raiser for our Scholastic Endowment Fund which provides much needed financial support for student scholarships, student presentations and poster awards, and travel for a student representative to participate in Board of Director's meetings. Last year, the Silent Auction raised \$2,600 for our student scholars.

The Silent Auction will provide donors lots of exposure by being set up close to or inside the exhibit area and then moved into the banquet area where final bidding will occur and the winners will be announced.

Those who want to donate an item please call or email John Gardner with your donor information. All donors confirming with John by June 10th will be recognized on both meeting sponsorship signs at the Silent Auction tables and a listing in the meeting program.

The auction item(s) should be delivered to the APMS Registration Desk upon your arrival at the hotel. Typical auction items include: GPS devices, gift cards, books, fishing reels, clothing,

binoculars, iPod, digital cameras, and any other item that can be easily packed with your luggage.

Thank you for your support of our APMS students  
John Gardner, Scholastic Endowment Chair  
Phone: (800) 432-4302  
E-mail: [john@vertexwaterfeatures.com](mailto:john@vertexwaterfeatures.com)

## **APMS Nominations-2011**

### **Dr. Michael Netherland – Vice President**

Dr. Michael Netherland is a Research Biologist for the U.S. Army Engineer Research and Development Center (ERDC) where his research has focused on improving use of herbicides for control of invasive aquatic plants and linking plant biology to control strategies. He received a Masters degree from Purdue University and investigated impacts of plant growth regulators on hydrilla and Eurasian watermilfoil. Upon graduation in 1989, Mike took a research position with the ERDC in Vicksburg, MS. In 1999 Mike earned a Ph.D. from the University of Florida with research focusing on the biology and management of hydrilla. Mike went to work in private industry for the SePRO Corporation and managed aquatic research projects from 1999 to 2003. In December 2003, he returned to the ERDC and he is currently stationed at the University of Florida Center for Aquatic and Invasive Plants in Gainesville, FL. Mike was President of the Florida Aquatic Plant Management Society in 2009 and Editor of the Journal of Aquatic Plant Management from 2004 through 2010.

### **Ms. Sherry G. Whitaker - Treasurer**

Sherry G. Whitaker is a Computer Scientist with the U.S. Army Engineer Research and Development Center, Environmental Laboratory in Vicksburg, MS and has served in that position since May 1994. In this position, Sherry is responsible primarily for the development and maintenance of several information/expert systems. Sherry earned a Bachelor of Science degree in Mathematics and Computer Science from the University of Southern Mississippi and a Master of Science degree in Computer Science from Mississippi State University. She has served a treasurer for APMS

for the past 3 years and has been involved with APMS in several other capacities for many years prior to treasurer.

### **Mr. Larry McCord – Director**

Mr. Larry McCord is a 1977 graduate of Clemson University in Plant Science and has been employed at the Santee Cooper - South Carolina Public Service Authority for 27 years. He is a supervisor in the analytical & biological services division where he is responsible for Aquatic Plant Management / Water Quality Management on the Santee Cooper Lakes (160,000 acres) and Management of Central Laboratory. Larry has been SCAPMS member since 1978 (Charter Year), has served several terms as Director on SCAPMS Board and served as President of SCAPMS in 1995. He is currently serving his second year of a two year term as a Director with SCAPMS.

### **Mr. David A. Isaacs - Director**

Mr. Isaacs is President of Aquatic Control, Inc., based in Seymour, IN. David received his B. S. degree in Fisheries Resources from Ball State University, Muncie, IN, in 1972. He has been employed in the aquatic industry for many years and in several capacities. He has conducted aquatic vegetation control, fish population surveys, and rough fish eradication, restocking and habitat improvement programs. He has also been responsible for the design of baseline and impact studies for nuclear power plants, 316 studies, and proposed surface mining projects. He has been project manager in charge of such studies as water quality monitoring programs, baseline biota surveys for power plant sitings, monitoring programs for a cooling reservoir, and benthic community analysis of treatment lagoons. In 1997, Mr. Isaacs was elected as Vice-President of Aquatic Control and was named President in 2000. Mr. Isaacs is a life member of the American Fisheries Society (AFS) and a member of the Fish Culture Section AFS. He played a primary role in the formation of the Indiana Aquaculture Association, Inc. in 1987 and served as the Charter President in 1987 and again in 1995. David was elected to the Board of the Midwest Aquatic Plant Management Society in 2000 and served as President in 2003 and 2009.

## **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!

## **Corps of Engineers Aquatic Plant Control Research Program Eliminated**

The Aquatic Plant Control Research Program (APCRP) has been eliminated from the Corps of Engineers (CE) budget for fiscal year 2012. Overall, eight programs including the Aquatic Plant Control (APC) Program, were identified by the Office of the Assistant Secretary of the Army for Civil Works, to receive zero funding in 2012. Congressional action will be required to restore program funding.

In response, the APMS and the Weed Science Society of America (WSSA) sent a letter to the Assistant Secretary of the Army in support of continued funding for the APCRP. Regional APMS and WSSA societies also signed in support of

maintaining this valuable research program. Watch for further guidance and E-mail "Calls to Action" regarding how you can help support future funding for this program.

The Aquatic Plant Control (APC) Program is authorized by Section 104 of the River and Harbor Act of 1958 (P.L. 85-500), as amended, and consists of a comprehensive program authorized to provide for the control of invasive aquatic plants and continued research. In 1973, the Chief of Engineers designated the Environmental Laboratory at the U.S. Army Engineer Research and Development Center in Vicksburg, Mississippi, as the lead laboratory for aquatic plant research, and established the Aquatic Plant Control Research Program (APCRP) with the responsibility for management of the Nation's aquatic plant research program.

The CE is the Nation's leading water resource management agency with the mission of developing, managing, and protecting our water resources. For over forty years, the CE has led research and development of biological, chemical, mechanical, cultural, and ecological capabilities for managing invasive plants through its peer-reviewed and internationally-recognized APCRP. During this time the APCRP has built an unequalled research capacity including a significant cadre of scientists and engineers, state-of-the-art research facilities, and a network of national and international cooperators. The overall impact of zero funding for the APCRP in 2012 will mean the loss of needed technologies for consistent problem management commensurate with national water resources missions and compromise years of research on the development of new, invasive aquatic plant control technologies.

## **HYDRILLA IPM RAMP PROJECT FUNDED**

Contact: Jennifer Gillett-Kaufman (352) 273-3950  
Released: September 16, 2010

The University of Florida / IFAS Entomology and Nematology Department is pleased to announce successful efforts to obtain grant funding for a new

project designed to tackle one of the U.S.'s most troublesome invasive plants: The Hydrilla Integrated Pest Management Risk Avoidance and Mitigation Project (Hydrilla IPM RAMP).

*Hydrilla verticillata* (a.k.a. hydrilla) is an invasive freshwater plant common in Florida. It was probably brought to the Tampa and Miami areas as an aquarium plant in the late 1950s. By the 1970s, it was established throughout Florida. If left unmanaged, hydrilla is capable of creating damaging infestations which can choke out native plants, clog flood control structures (which can lead to flooding), and impede waterway navigation and recreational usage. In addition, hydrilla is showing resistance to fluridone, a systemic herbicide used to manage it for the past 20 years. According to the University of Florida / IFAS Center for Aquatic and Invasive Plants, millions of dollars are spent each year on herbicides and mechanical harvesters in Florida in an effort to place hydrilla under "maintenance control."

There is a need for experts to design and transfer new, innovative methods of managing hydrilla.

Thanks to a new 4-year, \$500k grant from the USDA National Institute of Food and Agriculture, University of Florida / IFAS research and extension faculty, FAMU Faculty and Army Corps of Engineer are tackling the hydrilla problem head-on. This funding will enable the team to study new chemical and biological control methods as part of an overall hydrilla integrated pest management (IPM) plan.

As part of this project, the partnership of researchers will be studying the impacts of the integrated use of a new herbicide, a naturalized hydrilla mining midge and a native fungal pathogen.

This release is in reference to the USDA NIFA RAMP Grant 2010-02825 "Sustainable Approach for Integrated Management of Herbicide Resistant Hydrilla in the U.S."

For additional information about the Hydrilla IPM RAMP Project, please contact the cooperator nearest you:

Dr. Joan P. Bradshaw, University of Florida/IFAS Extension: Citrus County, Phone: 352-527-5714

James P. Cuda, University of Florida/IFAS  
Entomology & Nematology Department, Phone:  
352-273-3921

Jennifer L. Gillett-Kaufman, University of  
Florida/IFAS Entomology & Nematology  
Department, Phone: 352-273-3950

Ken Gioeli, University of Florida/IFAS Saint Lucie  
County Cooperative Extension, Phone: 772-462-  
1660

Stacia Hetrick, University of Florida/IFAS Osceola  
County Extension, Phone: 321-697-3000

Raymond L Hix, Florida A&M University, Phone:  
850-561-2216

William A. Overholt, University of Florida/IFAS,  
Indian River Research and Education Center,  
Phone: 772-468-3922 x 143

Judy F. Shearer, U.S. Army Corps of Engineers,  
Engineer Research and Development Center ,  
Phone: 601-634-2516

## PROPOSED 2011 BYLAWS CHANGES

In February of 2010, coinciding with his  
Presidential duties, Immediate Past President, Dr.  
Greg MacDonald, submitted a number of  
recommendations for Bylaws edits, additions and  
deletions to the Bylaws and Resolutions Committee.  
These were formatted and presented to the Board of  
Directors for their consideration at the Jan. 31, 2011  
BOD Meeting in Baltimore. Following  
considerable discussion, amendments were agreed  
upon and approved. These revisions were sent back  
to this Committee for final drafting, as presented  
below.

Note that the underlined words, sentences or  
statements have been added to and those with a  
~~striketrough~~ have been ~~deleted from~~ the identified  
sections of the Bylaws. Proposed amendments  
address some recent operational changes relating to  
how APMS conducts business; clarifies current  
language or cites the APMS Operating Manual for  
further detail as to duties. The BOD also concurred  
that specific duties and tasks of Committees,

Special Representatives and Officers would be more  
appropriately placed in the Ops Manual vs. the  
Bylaws. Therefore, deletions as noted under the  
Meeting Planning Committee will now appear  
there. A number of the originally proposed Bylaws  
changes also involved tasks and duties, and the  
BOD has directed they be placed in the Ops  
Manual, as well.

In accordance with the Bylaws, this serves as  
advance notification to the general membership that  
the following APMS Bylaws amendments will be  
voted upon at the APMS Annual Business Meeting  
scheduled for Monday July 25, 2011 beginning at  
4:25 p.m. EDT.

### ARTICLE IV OFFICERS

Section G. **Editor.** The Editor may request an annual  
stipend allocation requiring the Board of Directors  
approval for the preparation of APMS publications.

### ARTICLE VI BOARD OF DIRECTORS

Section B. A majority of the members of the Board of  
Directors shall constitute a quorum for the transaction  
of business, unless otherwise specified in the Bylaws.

Section C. ; (3) to provide rules and regulations for the  
conduct of the affairs of this Society ~~as are not consistent~~  
on matters that may not be specifically covered within  
the provisions of the Bylaws

### ARTICLE VIII MOTIONS AND RESOLUTIONS

All motions and resolutions presented at any annual  
meeting of the Society involving matters of policy,  
administration or business shall be referred to the Board  
of Directors who shall consider the same and report its  
recommendation back to the Society; provided, however,  
that should any matter require immediate action by the  
Society, such matters may be considered immediately  
and approved by consent of three-fourths of the active  
members present and voting.

### ARTICLE XIII COMMITTEES and REPRESENTATIVES

Section A. **Standing Committees.**  
Standing Committees shall perform all duties as defined  
in the Operating Manual.

#### 1. Awards Committee:

This committee shall be responsible for overseeing and  
implementing the Society's awards program in

in accordance with the Bylaws and other established criteria documented in the Awards Criteria section of the Operations Manual, as approved by the Board of Directors.

#### 4. Exhibits Committee:

The committee shall coordinate its activities with the Meeting Planning Committee, Meeting Planner, ~~hotel management~~, the Secretary, the Treasurer, and other relevant persons.

7. **Meeting Planning Committee.** This committee shall have at least three members. The committee shall investigate alternative sites within a region, and provide a recommendation to the Board of Directors to aid in selecting the meeting site and property. Upon recommendation of this committee and approval by the Board of Directors, this Committee may secure the services of a Meeting Planner firm or contractor via a competitive bid process for the purposes of assisting with carrying out their designated responsibilities. The Meeting Planning Committee in conjunction with a Meeting Planner, if utilized, shall be responsible for preparing the logistical aspects of the annual meeting. Its duties shall include: 1) preparation and distribution of a RFQ for Meeting Planner(s), if used, and recommendation of a bid award to the Board 2) coordination of hotel arrangements, 3) arranging for social activities and functions, 4) providing information for the Newsletter and website, 5) suggesting appropriate 'local' speakers, 6) securing meeting sponsors, 7) informing the Board of Directors about the arrangements. The committee shall coordinate its efforts with the Program Chair.

#### 11. Program Committee.

It shall be at the discretion of the Board and at the option of the Program Chair (President Elect) to annually request approval for a capped monetary allocation to cover select invited speaker(s)' expenses for those presenting at the annual meeting who may be unable to attend without a stipend. These monies are to be used at the discretion of the President Elect / Program Chair.

#### 17. Website Committee.

This committee shall consist of no fewer than three (3) members.

### ARTICLE XVII AMENDMENTS

These Bylaws may be amended by three-fourths vote of the active members present at any annual business meeting, provided the proposed amendment has been

approved by the Board of Directors and given in writing to the Secretary, and that a written notice of said proposed amendment has been transmitted to active members thirty (30) days before the annual meeting, and further that notice of the time said amendments are to be voted on has been announced at least twelve (12) hours in advance.

### ARTICLE XVIII DISSOLUTION

The society shall have perpetual existence, but if dissolved, its assets shall be donated to a non-profit organization or Institution to be selected by the last Board of Directors to be used for research or educational outreach on aquatic plant management.

Respectfully Submitted,

Jim Schmidt  
Chair  
Bylaws & Resolutions Committee

## Important meeting reminders for student attendees:

Please fill out and submit your meeting registration form by June 24:

<http://www.apms.org/2011/Registration%20Form.pdf>

The student luncheon is wonderful venue to interact with your fellow students and professionals in the APM field. Please remember to attend this event, sponsored by SePRO Corporation, in the Pisces Room on Monday, July 25, 12:00 p.m. – 1:30 p.m.

Student tour participants, be ready to see Maryland's aquatic plants up close and personal...pack a bathing suit and a snorkel! The tour group will depart from the lobby Wednesday, July 27, at 12:30 p.m. We would like to thank our tour guides, especially Mark Lewandowski, from the Maryland Department of Natural Resources!

Our society strives to make this a fun learning experience for students and we are looking forward to another great meeting in Baltimore!

# 51<sup>st</sup> 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)*

	<b>Early</b> <i>(by June 24, 2011)</i>	<b>On-site</b>	
<input type="checkbox"/> Delegate Registration	\$ 275.00	\$ 330.00	\$ _____
<input type="checkbox"/> Student Paper Competition Registration	\$ 0.00	\$ 0.00	\$ <u>0.00</u>
<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	\$ _____
<input type="checkbox"/> One-day Meeting Registration <i>(includes refreshment breaks on day of attendance only)</i>			
Day of Attendance: _____	\$ 100.00	\$ 100.00	\$ _____
<b>Individual Special Event Tickets for Non-registered Guests</b>			
<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 24, 2011.**  
**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, 2011, 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, 2011. Notice of cancellation must be received by APMS via mail, fax, or e-mail. **Phone cancellations will not be accepted**

# 2011 APMS Officers, Directors, Committee Chairs and Special Representatives

<u>Office</u>	<u>Name</u>	<u>Telephone</u>	<u>E-mail</u>
President	Linda Nelson	(601) 634-2656	Linda.S.Nelson@usace.army.mil
Immediate Past President	Greg MacDonald	(352) 392-1811	pineacre@ufl.edu
President Elect	Tyler Koschnick	(440) 665-2748	tylerk@sepro.com
Vice President	Terry Goldsby	(256) 582-9101	terryg@aquaservicesinc.com
Treasurer	Sherry Whitaker	(601) 634-2990	Sherry.L.Whitaker@usace.army.mil
Editor	Rob Richardson	(919) 515-5653	rob_richardson@ncsu.edu
Secretary	Jeff Schardt	(850) 245-2815	Jeff.Schardt@MyFWC.com
Director	Craig Aguillard	(337) 290-1096	caquillard@estesinc.com
Director	Cody Gray	(954) 562-0254	cody.gray@uniphos.com
Director	Alan "Bo" Burns	(919) 844-5375	bo.burns@cpsagu.com
Director	Susan Wilde	(706) 542-3346	swilde@warnell.uga.edu
Director	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Director	John Gardner	(954)977-7736	jwg@aquaticsystems.com
Student Representative	Joe Vassios	(970) 491-7746	jvassios@rams.colostate.edu

<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
Exhibits	LeeAnn Glomski	(972) 436-2215	leeann@laerf.org
Finance	Richard Hinterman	(810) 744-0540	cygnetent@aol.com
Legislative	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Meeting Planning	Bob Gunkel	(601) 634-3722	<a href="mailto:robert.c.gunkel@usace.army.mil">robert.c.gunkel@usace.army.mil</a>
Meeting Planning	Tommy Bowen	(704) 875-5422	tommy.bowen@duke-energy.com
Membership	John Madsen	(662) 325-2428	jmadsen@gri.msstate.edu
Nominating	Greg MacDonald	(352) 392-1811	pineacre@ufl.edu
Past President's Advisory Program	Greg MacDonald	(352) 392-1811	pineacre@ufl.edu
Publications	Tyler Koschnick	(440) 665-2748	tylerk@sepro.com
Regional Chapters	Rob Richardson	(919) 515-5653	rob_richardson@ncsu.edu
Scholastic Endowment	Terry Goldsby	(256) 582-9101	terryg@aquaservicesinc.com
Strategic Planning	John Gardner	(954) 977-7736	jwg@aquaticsystems.com
Student Affairs	John Rodgers, Jr.	(864) 656-0492	jrodger@clemson.edu
Web Site	Rebecca Haynie	(843) 991-8069	hayniers@uga.edu
	Ryan Wersal	(662) 325-4595	rwersal@gri.msstate.edu

## Special Representatives

AERF Representative	Carlton Layne	(678) 773-1364	layn1111@bellsouth.net
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!



# Pre-final Agenda

## Sunday, July 24

### Sunday's Agenda-at-a-Glance

- 7:30 am - 5:00 pm APMS Board of Directors Meeting (*Conway Room*)
- 12:00 pm - 5:00 pm Exhibits Setup (*Constellation AB*)
- 12:00 pm - 5:00 pm Poster Setup (*Constellation AB*)
- 1:00 pm - 5:00 pm Registration (*Atrium*)
- 7:00 pm - 9:00 pm President's Reception (*Outdoor Pool Deck*)  
*Sponsored by United Phosphorus, Inc.*

## Monday, July 25

### Monday's Agenda-at-a-Glance

- 7:30 am - 8:00 am Continental Breakfast (*Constellation AB*)
- 7:30 am - 5:00 pm Registration (*Foyer A Side*)
- 7:30 am - 5:00 pm Exhibits Open (*Constellation AB*)
- 7:30 am - 5:00 pm Posters Open (*Constellation AB*)
- 8:00 am - 12:20 pm Session I (*Constellation CD*)
- 10:00 am - 3:00 pm Guest Tour  
*Sponsored by Applied Biochemists*
- 10:10 am - 10:35 am Refreshment Break (*Constellation AB*)
- 12:20 pm - 1:45 pm Lunch on Your Own
- 12:20 pm - 1:45 pm APMS Student Affairs Luncheon (*Pisces*)  
*Sponsored by SePRO Corporation*
- 12:20 pm - 1:45 pm Aquatic Ecosystem Restoration Foundation Meeting (*Pisces*)
- 1:45 pm - 5:00 pm Session II (*Constellation CD*)
- 3:10 pm - 3:40 pm Refreshment Break (*Constellation AB*)
- 4:25 pm - 5:00 pm Annual Business Meeting (*Constellation CD*)
- 6:00 pm - 7:30 pm Poster Session and Reception (*Constellation AB*)  
*Sponsored by Winfield Solutions*

### Session I

8:00 am - 12:20 pm  
Constellation CD

### Presidential and Keynote Address

**Moderator:** Tyler Koschnick, APMS President Elect, SePRO Corporation, Carmel, IN

- 8:00 am **Welcome, Opening Remarks and Announcements**
- 8:05 am **Presidential Address**  
**Balancing Emerging Threats with Strategic Goals**  
**Linda Nelson**  
*U.S. Army Engineer Research and Development Center, Vicksburg, MS*
- 8:20 am **Keynote Address**  
**Chesapeake Bay TMDL, an Invasive Species?**  
**Aaron Hobbs**  
*Responsible Industry for a Sound Environment (RISE), Washington, D.C.*

### Science and Regulatory Policy

**Moderator:** Tyler Koschnick, APMS President Elect, SePRO Corporation, Carmel, IN

- 8:45 am **Clean Water Act Permitting of Discharges from Pesticide Applications**  
**Allison Wiedeman**  
*Office of Water, U.S. Environmental Protection Agency, Washington, D.C.*

- 9:10 am      **Square Pegs and Round Holes: Clean Water and NPDES**  
**Alexandra Dunn**  
*Association of State and Interstate Water Pollution Control Administrators, Washington, D.C.*
- 9:35 am      **Update on Office of Pesticide Program**  
**Dan Kenny**  
*Herbicide Branch, U.S. Environmental Protection Agency, Washington, D.C.*
- 9:55 am      **The Corps of Engineers Aquatic Plant Control Research Program**  
**Al Cofrancesco**  
*U.S. Army Engineer Research and Development Center, Vicksburg, MS*
- 10:10 am     **Refreshment Break (Constellation AB)**

### **Hydrilla and Ecological Services**

**Moderator: Michael D. Netherland**, *APMS Editor 2003 - 2010, U.S. Army Engineer Research and Development Center, Gainesville, FL*

- 10:35 am     **A Session to Provide Different Perspectives on Invasive Aquatic Plants and Potential for Ecosystem Services**  
**Michael D. Netherland**  
*U.S. Army Engineer Research and Development Center, Gainesville, FL*
- 10:50 am     **Lack of Hydrilla Infestation on Plant, Fish and Aquatic Bird Community Measures**  
**Mark V. Hoyer**  
*University of Florida, Gainesville, FL*
- 11:05 am     **Long-term Reductions in Anthropogenic Nutrients Link to Improvements in Chesapeake Bay Habitat**  
**Nancy B. Rybicki<sup>1</sup> and Henry A. Ruhl<sup>2</sup>**  
<sup>1</sup>*U.S. Geological Survey, Reston, VA*  
<sup>2</sup>*National Oceanography Centre, Southampton, UK*
- 11:20 am     **To Manage or Not to Manage - That is the Question**  
**John D. Madsen**  
*Mississippi State University, Starkville, MS*

### **Herbicide Susceptibility and Resistance**

**Moderator: Michael D. Netherland**, *APMS Editor 2003 - 2010, U.S. Army Engineer Research and Development Center, Gainesville, FL*

- 11:35 am     **Herbicide Resistance in Aquatic Plant Management from 2000 - 2010: Changes and Challenges**  
**Michael D. Netherland**  
*U.S. Army Engineer Research and Development Center, Gainesville, FL*
- 11:50 am     **Genetic Approaches to Studying Herbicide Response: Where We're at, and Where We Might Go**  
**Ryan Thum**  
*Grand Valley State University, Annis Water Resource Institute, Muskegon, MI*
- 12:05 pm     **Molecular Approaches to Aquatic Plant Management**  
**Michael P. Shaner<sup>1</sup> and Tyler J. Koschnick<sup>2</sup>**  
<sup>1</sup>*SePRO Corporation, Whitakers, NC*  
<sup>2</sup>*SePRO Corporation, Carmel, IN*
- 12:20 pm     **Lunch on Your Own**

### **Session II**

1:45 pm - 5:00 pm  
 Constellation CD

### **Emerging Threats**

**Moderator: Rob Richardson**, *APMS Editor, North Carolina State University, Raleigh, NC*

- 1:45 pm **Old Faces in New Places**  
**Rob Richardson**  
*North Carolina State University, Raleigh, NC*
- 1:55 pm **Management Strategies for Water Chestnut (*Trapa natans*): A Historical Perspective**  
**Mark J. Lewandowski**  
*Maryland Department of Natural Resources, Annapolis, MD*
- 2:10 pm **Flowering Rush (*Butomus umbellatus* L.): An Invader on the Move**  
**John D. Madsen**  
*Mississippi State University, Starkville, MS*
- 2:25 pm **Another Bite from the Frogbit Family: South American Spongeplant (*Limnobium laevigatum*) Threatens Western Water Resources**  
**Lars W. J. Anderson**  
*U.S. Department of Agriculture - Agricultural Research Service, Davis, CA*
- 2:40 pm **Santee Cooper Lakes - Aquatic Plant Management Program “Just When Things Were Going So Well”**  
**Richard (Larry) L. McCord and Jefferson (Chip) M. Davis**  
*Santee Cooper, Moncks Corner, SC*
- 2:55 pm **Responding to Invasive Aquatic Plant Introductions in Florida**  
**Jeffrey D. Schardt**  
*Florida Fish and Wildlife Conservation Commission, Tallahassee, FL*
- 3:10 pm **Refreshment Break (Constellation AB)**
- 3:40 pm **Human Population and Climate Change, Anticipated Effects to Harmful Algal Blooms of Southcentral USA**  
**Daniel L. Roelke<sup>1</sup>, Bryan W. Brooks<sup>2</sup> and James P. Grover<sup>3</sup>**  
*<sup>1</sup>Texas A&M University, College Station, TX*  
*<sup>2</sup>Baylor University, Waco, TX*  
*<sup>3</sup>University of Texas, Arlington, TX*
- 3:55 pm **Harmful Algae and Toxin Production: Knowledge to Focus Management**  
**West M. Bishop**  
*SePRO Corporation, Whitakers, NC*
- 4:10 pm **Emerging Management and Regulatory Challenges of Invasive Starry Stonewort (*Nitellopsis obtusa*) in Michigan**  
**Lisa E. Huberty**  
*Michigan Department of Environmental Quality, East Lansing, MI*
- 4:25 pm **Annual Business Meeting**  
**Linda Nelson**  
*President, Aquatic Plant Management Society*
- 5:00 pm **Adjourn**

## Poster Session

6:00 pm - 7:30 pm  
Constellation AB

**Biosecurity Plan for Freshwater Aquatic Plants in Micronesia**  
**Mark Sytsma<sup>1</sup>, Rich Miller<sup>1</sup>, Vanessa Morgan<sup>1</sup>, Paul Champion<sup>2</sup> and John Clayton<sup>2</sup>**  
*<sup>1</sup>Portland State University, Portland, OR*  
*<sup>2</sup>National Institute of Water and Atmospheric Research, Hamilton, New Zealand*

**Comparative Response of Five Members of the Hydrocharitaceae Family to Varying Concentrations and Exposures of Aquathol K and Hydrothol 191 (Student Poster)**  
**Leif N. Willey<sup>1</sup> and Michael D. Netherland<sup>2</sup>**  
*<sup>1</sup>University of Florida, Gainesville, FL*  
*<sup>2</sup>U.S. Army Engineer Research and Development Center, Gainesville, FL*

**Development of a Small-scale Primary Screening Method to Determine Potential Impacts of the Protoporphyrinogen Oxidase Inhibiting Herbicides Flumioxazin and Carfentrazone-ethyl on Native and Non-native Submersed Plants**

LeeAnn Glomski<sup>1</sup>, Michael D. Netherland<sup>2</sup> and Christopher Mudge<sup>3</sup>

<sup>1</sup>U.S. Army Engineer Research and Development Center, Lewisville, TX

<sup>2</sup>U.S. Army Engineer Research and Development Center, Gainesville, FL

<sup>3</sup>U.S. Army Engineer Research and Development Center, Vicksburg, MS

**Information on Cuban Bulrush (*Oxycaryum cubense* (Poepp & Kunth) Palla) (Student Poster)**

Amanda L. Fernandez, John D. Madsen, Ryan M. Wersal and Cheryl McLaurin

Mississippi State University, Starkville, MS

**Phenology of Flowering Rush and Hardstem Bulrush in Detroit Lakes (Student Poster)**

Michelle Marko<sup>1</sup>, Casey Olson<sup>1</sup>, Samantha Dusek<sup>1</sup>, Emily Salo<sup>1</sup> and John D. Madsen<sup>2</sup>

<sup>1</sup>Concordia College, Moorhead, MN

<sup>2</sup>Mississippi State University, Starkville, MS

**Suspected Endothall Tolerant Hydrilla (*Hydrilla verticillata*) in Florida (Student Poster)**

Sarah Berger<sup>1</sup>, Michael D. Netherland<sup>2</sup> and Greg MacDonald<sup>1</sup>

<sup>1</sup>University of Florida, Gainesville, FL

<sup>2</sup>U.S. Army Engineer Research and Development Center, Gainesville, FL

**The Effect of Weevil Stocking on Weevil and Milfoil Populations in Two Coastal Lakes (Student Poster)**

Emily Lichte, Laura Brutscher and Michelle Marko

Concordia College, Moorhead, MN

**The San Marcos River: Section 206: River of Endangered Species and Invasive Aquatic Plants**

Chetta S. Owens<sup>1</sup>, Aaron Schad<sup>2</sup>, LeeAnn Glomski<sup>1</sup>, Lynde Dodd<sup>2</sup> and Jeff Tripe<sup>3</sup>

<sup>1</sup>U.S. Army Engineer Research and Development Center, Lewisville, TX

<sup>2</sup>University of North Texas, Denton, TX

<sup>3</sup>U.S. Army Corps of Engineers, Fort Worth, TX

**Search for New Management Techniques for Hydrilla and Hygrophila**

Stacia Hetrick<sup>1</sup>, Jim Cuda<sup>2</sup>, William Haller<sup>2</sup>, Dean Jones<sup>1</sup>, Abhishek Mukherjee<sup>2</sup>, Michael D. Netherland<sup>3</sup>, and William Overholt<sup>4</sup>

<sup>1</sup>University of Florida/IFAS Osceola County Extension Services, Kissimmee, FL

<sup>2</sup>University of Florida, Gainesville, FL

<sup>3</sup>U.S. Army Engineer Research and Development Center, Gainesville, FL

<sup>4</sup>University of Florida, Fort Pierce, FL

**Tuesday, July 26**

**Tuesday's Agenda-at-a-Glance**

6:30 am - 8:00 am APMS Regional Chapters Presidents' Breakfast (*Pisces*)

*Sponsored by Helena Chemical Company*

7:30 am - 8:00 am Continental Breakfast (*Constellation AB*)

7:30 am - 5:00 pm Registration (*Foyer A Side*)

7:30 am - 5:00 pm Exhibits Open (*Constellation AB*)

7:30 am - 5:00 pm Posters Open (*Constellation AB*)

8:00 am - 12:00 pm Session III (*Constellation CD*)

9:35 am - 10:05 am Refreshment Break (*Constellation AB*)

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

12:00 pm - 1:30 pm APMS Past Presidents' Luncheon (*Pisces*)

*Sponsored by Valent USA Corporation*

1:30 pm - 5:00 pm Session IV (*Constellation CD*)

3:15 pm - 3:45 pm Refreshment Break (*Constellation AB*)

6:00 pm - 10:00 pm Awards Banquet (*Spirit of Baltimore - Baltimore Inner Harbor*)

*Sponsored by Syngenta Professional Products*

**Session III**

8:00 am - 12:00 am

Constellation CD

**Algae Management**

**Moderator: Susan Wilde, APMS Director, University of Georgia, Athens, GA**

- 8:00 am      **Opening Comments**
- 8:05 am      **Algae and Taste-and-Odor Issues in a Drinking Water Supply Lake: Intervention and Results**  
**John H. Rodgers**<sup>1</sup>, Russell Brown<sup>2</sup>, David Issacs<sup>3</sup>, Nathan Long<sup>3</sup>, William A. Ratajczyk<sup>4</sup> and James C. Schmidt<sup>4</sup>  
<sup>1</sup>Clemson University, Clemson, SC  
<sup>2</sup>Salem Water Works, Salem, IN  
<sup>3</sup>Aquatic Control, Inc., Seymour, IN  
<sup>4</sup>Applied Biochemists, Germantown, WI
- 8:20 am      **Cost of Different Pond Management Approaches and Effects on Trophic-Dynamics (Student Presentation)**  
**Michael S. Sherman**, Eric D. Dibble and John D. Madsen  
Mississippi State University, Starkville, MS
- 8:35 am      **Deep Water Mixing Prevents Harmful Algal Bloom Formation**  
Natanya J. Hayden<sup>1</sup>, **Daniel L. Roelke**<sup>1</sup>, Bryan W. Brooks<sup>2</sup> and James P. Grover<sup>3</sup>  
<sup>1</sup>Texas A&M University, College Station, TX  
<sup>2</sup>Baylor University, Waco, TX  
<sup>3</sup>University of Texas, Arlington, TX
- 8:50 am      **Investigating the Potential Transfer of an Unknown Algal Toxin from the Invasive Apple Snail, (*Pomacea insularum*) to the Florida Snail Kite (*Rostrhamus sociabilis*) (Student Presentation)**  
**Shelley M. Robertson**, Susan B. Wilde, Rebecca S. Haynie and James A. Herrin  
University of Georgia, Athens, GA
- 9:05 am      **Nutrient Fluctuations Induced through Manipulation of Aeration in a South Florida Retention Pond**  
**Amanda K. Quillen**  
Vertex Water Features, Pompano Beach, FL
- 9:20 am      **Evaluating a Potential Link Between a Known Neurotoxin, beta-N-methylamino-L-alanine (BMAA), and Avian Vacuolar Myelinopathy (AVM)**  
**Rebecca S. Haynie**<sup>1</sup>, Susan B. Wilde<sup>1</sup>, James A. Herrin<sup>1</sup>, Shelley Robertson<sup>1</sup>, Robert R. Bidigare<sup>2</sup> and Stephanie Christensen<sup>2</sup>  
<sup>1</sup>University of Georgia, Athens, GA  
<sup>2</sup>University of Hawaii, Honolulu, HI
- 9:35 am      **Refreshment Break (Constellation AB)**

### Northeast APMS Sponsored Session

**Moderator: JoAnn Dunlap**, *President Elect NEAPMS, Cygnet Enterprises, Tunkhannock, PA*

- 10:05 am      **The Costs of Aquatic Plant Management in New York State**  
**Charles W. Boylen**<sup>1</sup>, Nancy Mueller<sup>2</sup> and Scott A. Kishbaugh<sup>3</sup>  
<sup>1</sup>Rensselaer Polytechnic Institute, Troy, NY  
<sup>2</sup>New York State Federation of Lake Associations, Lafayette, NY  
<sup>3</sup>New York State Department of Environmental Conservation, Albany, NY
- 10:30 am      **Response of *Myriophyllum heterophyllum* and Non-Target Plants to Three Different Products: Navigate (2,4-D BEE granular), Sculpin (2,4-D Amine Granular) and Renovate Max G (Triclopyr Amine and 2,4-D Amine Granular)**  
**Erika Haug**<sup>1</sup>, Marc Bellaud<sup>1</sup> and Amy Smagula<sup>2</sup>  
<sup>1</sup>Aquatic Control Technology, Inc., Sutton, MA  
<sup>2</sup>New Hampshire Department of Environmental Services, Concord, NH
- 10:45 am      **The Successful Use of Sculpin G for the Targeted Control of Eurasian Water Milfoil (*Myriophyllum spicatum*) and Water Chestnut (*Trapa natans*), While Minimizing the Impacts on Protected Plants in Lake Musconetcong in New Jersey**  
**Chris Doyle**  
Allied Biological, Inc., Hackettstown, NJ
- 11:00 am      **Phragmites Application Techniques for Sensitive Areas**  
**David L. Hardin**  
Restoration Ecological Services, Inc., Easton, MD

### Hydrilla Management

**Moderator: JoAnn Dunlap**, *President Elect NEAPMS, Cygnet Enterprises, Tunkhannock, PA*

- 11:15 am **A New Molecular Tool for Rapid Detection of Fluridone Resistant Genotypes in *Hydrilla verticillata*** (*Student Presentation*)  
**Lori K. Benoit** and Donald H. Les  
*University of Connecticut, Storrs, CT*
- 11:30 am **Nitrogen Exploitation and Its Role in the Explosive Growth of *Hydrilla***  
**Michael Smart**<sup>1</sup> and Dian Smith<sup>2</sup>  
<sup>1</sup>*U.S. Army Engineer Research and Development Center, Lewisville, TX*  
<sup>2</sup>*University of North Texas, Denton, TX*
- 11:45 am **Monoecious *Hydrilla* Subterranean Turion Sprouting Dynamics** (*Student Presentation*)  
**Justin J. Nawrocki**, Steve T. Hoyle, Jessica Scott and Robert J. Richardson  
*North Carolina State University, Raleigh, NC*
- 12:00 pm **Lunch on Your Own**

#### **Session IV**

1:30 pm - 5:00 pm  
Constellation CD

#### **Chemical Control**

**Moderator: Craig Aguiard**, *APMS Director, Winfield Solutions, Ville Platte, LA*

- 1:30 pm **Release Dynamics of Granular Herbicides in an Aquatic Environment** (*Student Presentation*)  
**Brett W. Bultemeier** and William T. Haller  
*University of Florida, Gainesville, FL*
- 1:45 pm **Dissipation of Granular Triclopyr and Dye under High Water Exchange, Pend Oreille River, Idaho**  
**Toni Pennington**<sup>1</sup>, Harry Gibbons<sup>1</sup>, Mark Heilman<sup>2</sup>, Scott Shuler<sup>2</sup> and Terry McNabb<sup>3</sup>  
<sup>1</sup>*Tetra Tech, Inc., Portland, OR*  
<sup>2</sup>*SePRO Corporation, Carmel, IN*  
<sup>3</sup>*AquaTechnex, Centralia, WA*
- 2:00 pm **Absorption and Translocation of <sup>14</sup>C-Aminocyclopyrachlor in Three Aquatic Species** (*Student Presentation*)  
**Trevor D. Israel**, Wesley Everman and Robert J. Richardson  
*North Carolina State University, Raleigh, NC*
- 2:15 pm **Overview of Emerging Use Patterns for Management of Invasive Aquatic Vegetation with the ALS Herbicides Imazamox (Clearcast™) and Penoxsulam (Galleon™)**  
**Mark A. Heilman**<sup>1</sup>, John D. Madsen<sup>2</sup>, Ryan M. Wersal<sup>2</sup> and Michael D. Netherland<sup>3</sup>  
<sup>1</sup>*SePRO Corporation, Carmel, IN*  
<sup>2</sup>*Mississippi State University, Starkville, MS*  
<sup>3</sup>*U.S. Army Engineer Research and Development Center, Gainesville, FL*
- 2:30 pm **Absorption and Translocation of Penoxsulam in Monoecious *Hydrilla*** (*Student Presentation*)  
**Sarah T. Meadows** and Robert J. Richardson  
*North Carolina State University, Raleigh, NC*
- 2:45 pm **Clipper Herbicide: Understanding New Management Options**  
**Jason C. Fausey**  
*Valent USA Corporation, Green Springs, OH*
- 3:00 pm **Fluridone, Penoxsulam, and Triclopyr Absorption by Eurasian Watermilfoil and *Hydrilla*** (*Student Presentation*)  
**Joseph D. Vassios**<sup>1</sup>, Scott J. Nissen<sup>1</sup>, Tyler J. Koschnick<sup>2</sup> and Mark A. Heilman<sup>2</sup>  
<sup>1</sup>*Colorado State University, Fort Collins, CO*  
<sup>2</sup>*SePRO Corporation, Carmel, IN*
- 3:15 pm **Refreshment Break** (*Constellation AB*)

#### **Aquatic Ecology and Population Dynamics**

**Moderator: Joseph Vassios**, *APMS Student Director, Colorado State University, Fort Collins, CO*

- 3:45 pm **Aquatic Community Responses to Different Plant Control Strategies in the Mississippi Alluvial Valley (Student Presentation)**  
**Jonathan P. Fleming**, Matthew R. Spickard, Eric D. Dibble and John D. Madsen  
*Mississippi State University, Starkville, MS*
- 4:00 pm **Invasion Ecology of Eurasian Milfoil in Mobile Bay, AL: Factors Limiting Geographic Spread and Impacts on Higher Trophic Levels**  
**Charlie Martin** and John Valentine  
*Dauphin Island Sea Lab, Dauphin Island, AL*
- 4:15 pm **Distribution and Physical Habitat Characteristics of *Hygrophila polysperma* along the San Marcos River, Hays County, Texas (Student Presentation)**  
**Casey R. Williams** and Alan Groeger  
*Texas State University, San Marcos, TX*
- 4:30 pm **Lake-wide Control of Invasive Aquatic Plants in Minnesota: Risks and Rewards**  
**Chip Welling**  
*Minnesota Department of Natural Resources, Saint Paul, MN*
- 4:45 pm **Invasion of *Alternanthera philoxeroides* - An Emerging Threat to the Wular Lake Integrity (Student Presentation)**  
**Ather Masoodi** and Fareed A. Khan  
*Aligarh Muslim University, Uttar Pradesh, India*
- 5:00 pm **Adjourn**
- 6:00 pm APMS Annual Awards Banquet

## Wednesday, July 27

### Wednesday's Agenda-at-a-Glance

- 7:30 am - 8:15 am Continental Breakfast (*Constellation AB*)  
7:30 am - 12:00 am Registration (*Foyer A Side*)  
7:30 am - 10:30 am Exhibits Open (*Constellation AB*)  
7:30 am - 10:30 am Posters Open (*Constellation AB*)  
8:15 am - 12:00 pm Session V (*Constellation CD*)  
9:50 am - 10:20 am Refreshment Break (*Constellation AB*)  
1:00 pm - 4:00 pm APMS Board of Directors Meeting (*Conway Room*)

### Session V

8:15 am - 12:00 pm  
Constellation CD

### General Session

**Moderator: Greg MacDonald**, *APMS Past President, University of Florida, Gainesville, FL*

- 8:15 am **Opening Comments**
- 8:20 am **Tradewind Herbicide: Update on Laboratory and Field Studies**  
**Joe Chamberlin**  
*Valent USA Corporation, Walnut Creek, CA*
- 8:35 am **SAVEWS Jr. - A New Technique for Automated SAV Detection Using a Low-cost Acoustic Sounder**  
**Bruce M. Sabol** and Wesley Johnson  
*U.S. Army Engineer Research and Development Center, Vicksburg, MS*
- 8:50 am **Benefits and Limitations Using Fathometers to Monitor Herbicide Treatments for Submersed Plant Control**  
**Dean Jones**<sup>1</sup>, Jeremy Slade<sup>2</sup> and Michael D. Netherland<sup>3</sup>  
<sup>1</sup>*University of Florida/IFAS Osceola County Extension Services, Kissimmee, FL*

<sup>2</sup>United Phosphorus, Inc., Gainesville, FL

<sup>3</sup>U.S. Army Engineer Research and Development Center, Gainesville, FL

- 9:05 am **Evaluation of Herbicides for Control of Two Populations of the Submersed Growth Stage of Flowering Rush (*Butomus umbellatus* L.)**  
**Christopher R. Mudge**, Angela G. Poovey and Kurt D. Getsinger  
*U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi*
- 9:20 am **(TBD) - Selective Control of Water Hyacinth and Water Lettuce Growing Among Bulrush**  
**Michael D. Netherland**  
*U.S. Army Engineer Research and Development Center, Gainesville, FL*
- 9:35 am **Attempts at Preventing the Growth of Submersed Aquatic Vegetation in Arkansas Bait and Ornamental Fish Culture Ponds: Year 2**  
**George Selden**  
*University of Arkansas, Pine Bluff, AR*
- 9:50 am **Refreshment Break (Constellation AB)**

### **General Session**

**Moderator: Terry Goldsby**, APMS Vice President, Aqua Services, Inc., Guntersville, AL

- 10:20 am **3-Dimensional Outreach for Applicators, Citizens and Teachers: An Update from the Center for Aquatic and Invasive Plants**  
**Amy Richard** and Karen Brown  
*University of Florida, Gainesville, FL*
- 10:35 am **How to Control the Detrimental Effects of Eutrophication by Reducing Phosphorous and Therefore Reducing Algae Blooms to Help Meet Water Quality Standards and Control the Effects of Toxic Algae**  
**Seva Iwinski**  
*Applied Polymer System, Woodstock, GA*
- 10:50 am **Impacts of the Biocontrol Weevil, *Cyrtobagous salviniae* on the Decomposition of Kariba Weed, *Salvinia molesta* and Changes in Water Chemistry**  
**Naidu Kurugundla**<sup>1</sup> and B. Mathangwane<sup>2</sup>  
<sup>1</sup>*Water Affairs, Maun, Botswana*  
<sup>2</sup>*Water Affairs, Gaborone, Botswana*
- 11:05 am **Science Policy Update**  
**Lee Van Wychen**  
*Director of Science Policy, Weed Science Society of America, Washington, D.C.*
- 11:20 am **AERF Update**  
**Carlton Layne**  
*Executive Director, Aquatic Ecosystem Restoration Foundation, Marietta, GA*
- 11:35 am **Regional Chapter Updates**  
Northeast  
Midwest  
MidSouth  
South Carolina  
Texas  
Western  
Florida
- 12:00 pm **Adjourn 51<sup>st</sup> Annual Meeting**

**NEXT YEAR**

**52<sup>nd</sup> Annual Meeting**  
**Little America Hotel**  
**Salt Lake City, Utah**  
**July 22-25, 2012**

# Everglades Nonnative Fish Round Up

**Saturday, June 25, 2011** Miccosukee  
Arches

**SW 8th St. & SW 172 Ave.  
Miami-Dade County, FL**

The Everglades ecosystem is home to at least 22 non-native freshwater fish species. These non-native fish may be causing detrimental changes to our native fish communities, particularly as the number of new species continues to increase. All but one of these fish were introduced illegally as the result of releases of unwanted pets and food fish, or due to the flooding of aquaculture ponds.

The Everglades CISMA is hosting the Everglades Non-native Fish Round Up to raise public awareness about the negative impacts of releasing non-native fish into Florida waters, and to encourage anglers to target these non-native species for consumption. The roundup will also gather data into non-native fish distribution and abundance that can assist in their management.

The Round Up will be a one day event open to all anglers (shore or boat) fishing in the Everglades area. Prizes will be awarded for largest fish, largest aggregate catch (weight), and will include a junior division. We also will award a "Slam" prize to the angler that catches the greatest number of non-native species.

**J.D.'s Custom Baits** [www.jdscustombaits.com](http://www.jdscustombaits.com)

For more information about invasive species in south Florida, upcoming FWC Nonnative Pet Amnesty Days, and tips on how you can help, visit:

**Official sponsors of the 2011 Everglades Nonnative Fish Round Up**

# Everglades Nonnative Fish Round Up

The intent of the 2011 Everglades CISMA Non-Native Fish Roundup is to raise awareness of the potential negative environmental consequences of releasing non-native fish and to gather information on non-native fish and their ranges throughout the Everglades.

## Rules and Regulations

**Registration:** The registration fee is \$25.00 per person. All on-line registration must be completed by 9:00 PM, June 24th, 2011. Individuals may register in person on June 25th, 2011 between 6 and 7 am. Multiple anglers fishing from the same boat must distinguish their catch from one another using supplied colored zip-ties. Participants will receive an Everglades CISMA Non-Native Fish Round-up T-shirt as well as merchandise from our sponsors. Cash only will be accepted the day of the event.

**2011 Everglades CISMA Non-Native Fish Round-Up Start/Stop:** The 2011 Everglades CISMA Non-native Fish Round-Up will begin at 7:01 am on June 25th 2011 and lines must be out of the water by 3:00 PM. The 2011 Everglades CISMA Non-native Fish Round-Up Committee reserves the right to amend the start and finish times of the 2011 Everglades CISMA Non-native Fish Round-Up and will use good faith and judgment to ensure a successful event for all participants.

**Check-In/Weigh-Ins:** Scales will be positioned at the Miccosukee Arches and will officially open at noon the day of the Round-Up. In order to be eligible for weigh-in all anglers must have checked in before 3:20 PM. All anglers will be responsible to disclose general location of fish caught for the ECISMA non-native fish database.

**Boundaries:** The boundaries are all legal freshwater fishing areas in the greater Everglades area (Broward, Collier, Miami-Dade, Monroe and Palm Beach counties).

**Weather:** The 2011 Everglades CISMA Non-native Fish Round-Up is an all weather event. All anglers, boat owners, and all other participants are responsible and encouraged to be familiar with the current local weather conditions and forecasts to determine if the conditions permit the safety of the boat, crew, anglers, and guests. The 2011 Everglades CISMA Non-native Fish Round-Up Committee reserves the right to postpone the event and use a back-up date.

**Cash and Prize Awards:** (Awards will be given upon the completion of weigh-in)

**Largest Fish:** There will be a 1st place prize of \$300 and a plaque for the single largest (weight) fish. There will be a 2nd place prize of \$200 and a plaque for the second largest (weight) fish. There will be a 3rd place prize of \$100 and a plaque for the third largest (weight) fish. Junior division prize of \$75 and a plaque will be awarded to the junior angler with the largest (weight) fish.

**Most Fish:** There will be a 1st place prize of \$300 and a plaque for the most (weight) fish. There will be a 2nd place prize of \$200 and a plaque for the second most (weight) fish. There will be a 3rd place prize of \$100 and a plaque for the third most (weight) fish. Junior division prize of \$75 and a plaque will be awarded to the junior angler with the most (weight) fish.

**Non-Native Slam:** There will be a single prize of \$300 as well as a junior prize of \$100 for the angler that brings in the greatest variety of non-native fish species. In the event of tie the aggregate weight of the combined fish will determine the winner.

\*Cash Prizes listed above are based on an entry of 70 anglers. Prizes will be re-calculated on date of event after registration closes.

**Federal and State Regulations:** All fish must be caught in compliance with all state of Florida regulations and only within legal fishing areas. The weight and/or length of the eligible fish submitted for weigh-in is subject to state of Florida and/or federal laws. Any person or boat without valid permits and/or licensing are in violation of state and or federal law and may have their fish disqualified at time

of weigh-in. Native fish are not eligible to be weighed. Miccosukee and Seminole Indians may harvest fish with traditional methods.

**Grass Carp:** Possession of grass carp is illegal. Grass carp must be returned immediately to the water unharmed as they were released intentionally for aquatic plant control purposes.

**Additional Regulations:** All fish must be treated humanely and must be brought to the weigh-in DEAD and on ice. Any fish brought in alive or not on ice will be disqualified. We encourage anglers to keep and consume their fish after the weigh-in.

**Waiver Disclaimer:** It is expressly understood that participants in the 2011 Everglades CISMA Non-native Fish Round-Up enter at their own risk and that Everglades CISMA and all participating organizations, Officers, Event Sponsors, and Committees and all other persons connected directly or indirectly with the operation of said event, shall be exempt from any liability for liable, slander, loss, damage, negligence, harm, injury, or death suffered by any participant, entrant, vessel, and equipment, companions, and guests, boat captains, mates, crew members, which may occur during or in conjunction with the 2011 Everglades CISMA Non-native Fish Round-Up. By signing the official registration form, the boat owner, captain and mate(s), anglers and guests consent that ECISMA may use, without payment or restriction photographs, video footage, in which he or she may appear for any purpose including but not limited to resale, advertising, commercial or promotional material.

**Protest:** Any protest must surface verbally at the time of the incident, at the weigh-in station.

**Participants:** Any and all participants entering the 2011 Everglades CISMA Non-native Fish Round-Up agree that all decisions made by the 2011 Everglades CISMA Non-native Fish Round-Up committee/rules committee shall be final and binding in any manner requiring their action.

# **ADIRONDACK AQUATIC INVASIVE SPECIES COORDINATOR**

for the Adirondack Park Invasive Plant Program (APIPP)  
a Partnership for Regional Invasive Species Management in New York State  
The Nature Conservancy – Adirondack Chapter

## **JOB DESCRIPTION**

### **OFFICE LOCATION**

Keene Valley, New York

### **ABOUT US**

The Nature Conservancy is the world's leading conservation organization, working in all 50 states and more than 33 countries. Founded in 1951, the mission of The Nature Conservancy is to preserve the plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive.

### **POSITION DESCRIPTION:**

The Aquatic Invasive Species (AIS) Project Coordinator will be a team member of the Adirondack Park Invasive Plant Program (APIPP), one of New York's eight Partnerships for Regional Invasive Species Management (PRISM). The APIPP facilitates the development and implementation of programs in the Adirondack region for invasive species prevention, monitoring, mapping, management, education, and restoration (more information online at [www.adkinvasives.com](http://www.adkinvasives.com)). The AIS Project Coordinator's primary role will be to lead APIPP's early detection and monitoring programs for AIS, coordinate partners in the region working on AIS issues, and serve as a resource for partners and communities on AIS issues. This is an excellent opportunity for a motivated individual to work in a creative, team-oriented environment on an important and high profile conservation issue.

### **BASIC QUALIFICATIONS:**

- BA/BS/AS/Technical or vocational degree in science-related field and 1 year related experience in custodial and ecological land management or equivalent combination of education and experience
- Knowledge of natural systems
- Experience in ecological land management principles
- Experience performing physical work

### **ESSENTIAL FUNCTIONS:**

The AIS Project Coordinator will participate in the development and coordination of AIS programs in the Adirondack region. This may include one or more of the following functions:

- Coordinates APIPP's aquatic invasive plant volunteer monitoring program, and other AIS monitoring programs as needed, including organizing training sessions and providing volunteer support and assistance
- Conducts aquatic invasive species surveys and lends guidance on aquatic invasive species management efforts
- Performs database entry, GIS mapping and analysis
- Develops and delivers presentations to stakeholder groups at local, state, and regional levels
- Develops work plans and project reports as necessary
- Assists the submission of proposals/funding requests to other sources as necessary and appropriate
- Coordinates regional management of aquatic invasives with other PRISMs and partners, such as the Lake Champlain Basin Program

### **REQUIRED KNOWLEDGE AND SKILLS:**

- Experience working with or knowledge of aquatic systems and knowledge of ecological resource management principles
- Familiarity with AIS and current trends and practices in their management

## **POSITION OPENING:**

**Job Description:** Territory Account Manager for United Phosphors Inc to sell aquatic herbicides and algaecides in the Eastern U.S. with emphasis in the Midwest and Midsouth.

The Territory Account Manager drives sales revenue by building a relationship with key accounts; penetrating the account at key levels; becoming a trusted advisor on product solutions to meet the needs of their accounts; and maintaining an on-going account strategy for selling UPI's aquatic product portfolio.

### **Responsibilities include:**

Develop relationships within the customer base by meeting with multiple levels of the accounts within their assigned accounts.

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.

Maintain regular contact with account base, and increase revenue through the sales of new & existing products.

Ability to work within a team, and independently. Efficiently manage time to focus on activities that grow revenue and ensure client satisfaction.

Must have high ethics, integrity, and humility and have a desire to be part of a rapidly growing sale and support organization.

### **Job Requirements:**

Travel within an assigned geographical area: Eastern U.S. with emphasis in the Midwest, Northeast and Midsouth.

A highly motivated individual who can intuitively see a problem and offer reasonable resolution.

Frequent face to face contact and working relationship with key accounts

Adequate computer skills with basic Microsoft office applications

### **Qualifications:**

The Territory Account Manager should have experience with aquatic herbicides and how they are applied to various aquatic sites. This position must possess a B.S. degree in some biological/agricultural science and also have 3-5 years experience.

### **Salary:**

Commensurate with qualifications and experience

### **If interested and qualified contact:**

Gerald Adrian, United Phosphorus Inc, Business Manager Aquatics, [gerald.adrian@uniphos.com](mailto:gerald.adrian@uniphos.com)

Cody Gray, United Phosphorus Inc, Field Development, Aquatic Specialist, [cody.gray@uniphos.com](mailto:cody.gray@uniphos.com)



### Assistant Professor – Weed Science

12-month, tenure-accruing, 60% research/40% extension position in Ft. Lauderdale Research & Education Center, IFAS, University of Florida, Davie, FL. The successful candidate will conduct research on integrated control methods for aquatic and wetlands plants that restrict the agricultural, recreational and industrial uses of the state's water resources and/or detrimentally impact aquatic and wetland habitats. The Extension program will focus on training and assisting County Extension Agents in responding to weed control questions and cooperating with aquatic plant management professionals to solve practical management problems. Because of the IFAS land-grant mission, all faculty are expected to be supportive of and engaged in all three mission areas (Research, Teaching and Extension) regardless of the assignment split specified in the position description. A Ph.D. in Weed Science, Agronomy, Aquatic or Wetlands Plant Ecology, Botany, Limnology, or related discipline is preferred. To view full position description & application instructions, please visit <https://jobs.ufl.edu> & search for requisition # 0807264. The direct link is <https://jobs.ufl.edu/applicants/Central?quickFind=67755> Contact information: Dr. Nan-Yao Su, Chair, Search & Screen Committee, University of Florida, Ft. Lauderdale Research & Education Center, 3205 College Ave, Davie, FL 33314, Tel: 954-577-6339, Email: [nysu@ufl.edu](mailto:nysu@ufl.edu)

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# Tamarisk Coalition

## Staff Scientist Position – Application Deadline June 10, 2011

**Description:** The Tamarisk Coalition, a nonprofit organization dedicated to the restoration of riparian lands, is seeking to fill a Staff Scientist Position. The candidate will have demonstrated technical and practical environmental science skills and experience. Responsibilities may include monitoring coordination, interpreting scientific information to inform Tamarisk Coalition efforts (e.g. restoration design, staff), project management, and stewardship of the TC reputation.

**Location:** The position is based in Grand Junction, CO. It is important that the applicant is able to work in a non-traditional work environment that fosters flexibility, open dialogue, and innovation.

**Salary:** Professional full-time salaried; salary is based on experience; range is \$43,000 to \$54,000/year. Benefits include health insurance stipend, vacation, sick and holiday pay, 403(b)7 retirement account, and employee assistance program.

**Primary Responsibilities:** This position is intended for a person with expertise and experience in riverside habitat restoration, ecology and environmental sciences. A “big picture” perspective on river system health and restoration in the West is necessary. Primary responsibilities are described below:

- 1. Guidance and advice for science and technical projects:**
  - Provide knowledge and expertise in an applicable restoration field of study (e.g. landscape ecology, ecosystems management, invasive weed management, or riparian ecology).
  - Interpret scientific information in order to communicate with staff and partners to inform program decisions and project components.
  - Work with TC partners to understand their needs and provide technical support to improve their capabilities. Examples of such support include: mapping and inventory training, including biological control monitoring; long-term vegetation and project success monitoring; revegetation planning and technology assessment for control and revegetation.
  - Coordinating, drafting and/or editing technical papers such as grant reports and restoration planning documents.
  - Understand technical applications such as GIS and website capabilities.
- 2. Support for other TC programs and functions:**
  - Project and contract management.
  - Administer technical grants, track in-kind services and project expenses, and meet grant report requirements.
  - Assist with development and coordination of TC research conferences and symposiums.
  - Maintain healthy working relationships with TC partners.
  - Support grant writing for organizational development.
  - Support the staff in interactions with partners (scientists, land managers, and restoration experts), other constituents, funders, grantors, the general public, etc.
- 3. Staff interaction and guidance:**
  - Work with the Executive Director and Program Director to define and implement technical components of TC programs.
  - Work with staff to provide guidance and technical support on TC programs.

### Qualifications:

- A master’s degree preferably in an environmental science discipline.
- Five years minimum experience in a technical/science related position, preferably with an environmental organization. Working experience should include: broad technical understanding of invasive weed management and ecosystem restoration, interaction with diverse organizations and on-the-ground practitioners.
- Demonstrated expertise in restoration and practical environmental science experience.
- Computer skills (Word, Excel, PowerPoint, etc.)
- Proficiency using ESRI Arc-GIS and experience using GIS in a restoration context.
- Strong written and verbal communication skills.
- Demonstrated ability to form relationships and work with diverse stakeholders including landowners, funders, state and federal agency personnel and other nonprofit staff.

### Special Job Requirements:

- Dependable car and valid driver's license, registration, and insurance for travel throughout Colorado, eastern Utah, and other western states
- Ability to work a flexible schedule, including evenings and weekends as needed; ability to travel for extended periods (1 week or more)
- Physical ability to hike, backpack, and raft
- Public participation experience is desirable

Please email cover letter, resume, and references to Stacy Kolegas, Executive Director by June 10, 2011:  
[skolegas@tamariskcoalition.org](mailto:skolegas@tamariskcoalition.org).

**Visit the APMS WEB SITE**  
**www.apms.org**

**For members only features: username = apms**  
**password = duckweed**