



AQUATIC PLANT NEWS

A Newsletter of The Aquatic Plant Management Society, Inc.
P.O. Box 821265, Vicksburg, MS 39182-1265
Linda Nelson, Editor Issue Number 85, June 2007

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"

47th Annual Meeting Nashville, Tennessee



The time is here to make your hotel reservations and register for the 47th Annual Meeting of the Aquatic Plant Management Society. This year the APMS meeting is being held in Music City USA, Nashville, Tennessee. Make your arrangements by June 14, 2007 and join your friends at the Gaylord Opryland Resort & Convention Center, July 15-18, 2007. 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's Banquet on Tuesday night will once again prove to be a memorable occasion. Included in the banquet is a great night of entertainment with "The Hits from the Hit Makers." The entertainment will begin with a few songs from our very own Troy Goldsby, followed by some of country music's greatest songs and the stories behind the songs. These songs will be performed by the song writers, and they are some of the best in the business. The trio of song writers will include Walt Aldridge, Casey Kelly and Todd Cerney. Walt Aldridge has written seven number one hits including "I Loved Her First" (Heartland), and other great hits like "Leave Him Out Of This" (Steve Warriner) and "Modern Day Bonnie and Clyde" (Travis Tritt). Songs written by Casey Kelly include "Soon" (Tanya Tucker), "The Cowboy Rides Away" (George Strait), and "The Road Not Taken" (Joe Diffie). Todd Cerney wrote the number one hit "Good Morning Beautiful" (Steve Holy), and other hits like "I'll Still Be Loving You" (Restless Heart) and "Blues Is My Business" (Etta James). Prepare for a great night of music and the wonderful stories that will put you into the mind of the writers. These special events are free to all registered delegates, guests, and students. Non-registered guests may purchase tickets for these events at the registration desk.

Another exciting special event being planned is the Guest Tour on Tuesday. The tour begins with a visit to one of the most popular presidential homes in the nation, The Hermitage. This beautiful plantation was the home of Andrew Jackson our nation's seventh president. The plantation tour will include The Hermitage mansion, grounds, garden, Jackson's tomb, and original cabins. Lunch will be an on-the-water adventure aboard the General Jackson showboat. The General Jackson will cruise the scenic Cumberland River, providing fantastic sightseeing, musical entertainment, and dining. 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, call the Gaylord Opryland Resort & Convention Center directly at (615) 883-2211. You must make your reservation on or before June 14, 2007 and be sure to mention the Aquatic Plant Management Society Annual Meeting or Group Code X-AQPM7. Our special APMS guest room rate is \$142.00 for single or double occupancy per night plus applicable tax, currently 14.25%. Each additional person to a room is \$20.00. Children 12 years and under are free when occupying the same room as their parents. Room rates are good for 3 days before and after the meeting, based on availability. A resort fee of \$10.00 will be charged per room per night and is subject to 9.25% sales tax. This fee includes high speed internet access, access to Cyber Café, local and toll-free calls up to 20 minutes, access to the fitness center, USA Today delivered daily (Monday-Friday), 2 bottles of water (refreshed daily), and scheduled complex transportation. Check-in time is 3:00 p.m. and check-out time is 11:00 a.m. Self and valet parking is available, please check with the hotel for cost.

The meeting registration fees are \$225.00 for delegates and \$100.00 for guests (spouse, partner, child over 12 years-of-age) if received by June 14, 2007. After this date, registration fees at the door will be \$275.00 for delegates and \$125.00 for guests. The meeting registration fee for students competing in the student paper contest (oral or poster) is waived and the registration fee for a student not competing is \$50.00. 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 the following events: President's Reception, Guest Tour, Poster Reception, and Banquet.

Please help us in planning for the meeting by completing the Registration Form and submitting it prior to June 14, 2007. The Registration Form is available in this newsletter and on the APMS website. This will be an extraordinary meeting, so plan to come and bring the family. Music City USA awaits you!

Annual Meeting Deadline Dates

June 14: Last day to make hotel reservations.
Last day for early registration.

June 30: Registration fees are fully refundable prior June 30, less a \$25.00 handling fee.

Thanks to Our 2007 Commercial Sustaining Members for Their Valuable Support to the APMS

Applied Aquatic Management, Inc.
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2007 APMS Officer and Director Nominees

Biographical Information

The following nominees have been selected by the Nominating Committee to serve on the APMS Board of Directors. Active members of the Society will vote for new Officers and Directors during the Annual Business Meeting to be held on Monday, July 16, 2007, 4:30 pm in the Tennessee DE Room.

Vice President: Gregory E. MacDonald

Dr. Gregory MacDonald is an Associate Professor of Weed Science at the University of Florida. Dr. MacDonald earned a B.S. degree in Plant Science at Cornell University in 1986 and both a M.S. and Ph.D. in Agronomy-Weed Science at the University of Florida in 1990 and 1994, respectively. He was a faculty member (Extension Weed Specialist) at the University of Georgia from 1994-1998 and accepted his current position at the University of Florida. Dr. MacDonald serves on numerous committees within the Weed Science Society of America (as a Board member representing APMS), Southern Weed Science Society, Florida Exotic Pest Plant Council, Florida Crop and Soil Science Society (Board of Directors) and Florida Weed Science Society. Greg is currently finishing a three-year term as a Director on the APMS Board.

Editor: Michael D. Netherland

Dr. Michael Netherland is a Research Biologist for the U.S. Army Engineer Research and Development Center (USAERDC). He started working with nuisance aquatic plants while pursuing a M.S. degree at Purdue University. Upon graduation in 1989, Mike took a position with the USAERDC in Vicksburg, MS, and worked on improving control methods for invasive submersed aquatic plants. In 1999, Mike earned a Ph.D. from the University of Florida after which he accepted a position as Research Manager for Aquatics for the SePRO Corporation. In December 2003, he returned to USAERDC and is stationed at the University of Florida Center for Aquatic and Invasive Plants. Mike has been active in several regional APMS chapters, he is on the Board of Directors of the

Florida APMS and he is the current Editor for the Journal of Aquatic Plant Management.

Secretary: Mark Heilman

Dr. Mark Heilman is currently the Aquatics Technology Leader for SePRO Corporation based at the SePRO Research and Technology Campus in Whitakers, NC. He received a B.S. in Biology in 1992 and his Ph.D. in Aquatic Ecology in 1998, both from the University of Notre Dame. After a postdoctoral position at Rice University in Houston, TX, Mark worked from 2000 through 2002 with ReMetrix LLC conducting GPS/GIS-based assessment of aquatic plant communities. Since 2002, he has worked in new product research for SePRO looking for new technologies to control aquatic invasive weeds. He has also provided research and technical assistance to a variety of aquatic plant management programs around the U.S. Since 2005, Dr. Heilman has served as the chairman of the APMS Student Affairs Committee.

Director: Tyler Koschnick

Dr. Tyler Koschnick is an Aquatic Research Manager with SePRO Corporation stationed in Medina, OH. He works nationwide conducting field research and developing existing aquatic-registered herbicides as well as evaluating new products. Tyler graduated in 1996 with a B.S. degree from Ohio Northern University and received his M.S. and Ph.D. degrees in 2003 and 2005 respectively at the University of Florida in agronomy/aquatic weed science. Tyler has been a Director for the Indiana Lake Management Society and the Midwest and Western Chapters of the Aquatic Plant Management Society. He also served several terms as the Scholastic Endowment Committee Chair with the APMS.

Director: Chetta Owens

Chetta Owens is an Invasive Aquatic Plant Ecologist with the U.S. Army Engineer Research and Development Center (USAERDC) stationed at the Lewisville Aquatic Ecosystem Research Facility in Lewisville, TX. She received her B.S. degree from the Texas Woman's University in 1989 and M.S. degree from Texas Woman's University and the University of North Texas in 1993. Chetta worked for 13 years as a

contractor with the USAERDC on biological and cultural aquatic plant management initiatives. She has served as Director, Secretary, and President of the Texas Aquatic Plant Management Society.

Scholastic Endowment Committee Fund Raisers

The Silent Auction and Reverse Raffle have been great fund raisers over the last several years. Nearly \$9,000.00 was collected from these events at the 2006 Annual Meeting held in Portland, Oregon. The funds are used to support student scholarships, student presentation/poster awards, and travel for a Student Representative to participate in Board of Director meetings. Let's work to exceed the 2006 level this summer in Nashville.

Cygnets Enterprises, Inc. has generously donated the Reverse Raffle Grand Prize this year – **an exclusive, 7-night cruise of the western Caribbean aboard "Mariner of the Seas."** The excursion includes airfare. You won't want to miss a chance to win this fabulous trip! Raffle tickets will be sold during the Annual Meeting at the APMS Registration Desk and from designated ticket agents. The Reverse Raffle will be held at the Tuesday evening banquet. You must be present to win.

The Silent Auction will be set up in the Exhibits area, starting Monday morning and closing midday Tuesday. Those who wish to donate a gift for this event are asked to contact Shaun Hyde as soon as possible. The auction item(s) should be delivered to the APMS Registration Desk upon your arrival at the hotel. Typical auction items include: backpacks, books, fishing reels, clothing, binoculars, iPod, digital cameras, and any other item that can be easily packed with your luggage.

All sponsors will be recognized on a poster at the Silent Auction tables, listed in the program (Sponsors confirmed prior June 1, 2007), and your web-link posted on the APMS website. Thank you for supporting our APMS students.

Shaun Hyde, Scholastic Endowment Chair
Phone: (860) 651-5583
E-mail: shaunh@sepro.com

The ISAC Travels to Miami



The Invasive Species Advisory Committee (ISAC) met in Miami, FL from April 30 – May 3, 2007. The ISAC members advise the National Invasive Species Council (NISC) on invasive species issues ranging from prevention to early detection to research and management. This is the first ISAC meeting held outside Washington D.C. in three years, and provided an opportunity for members to see first-hand the pathways and immense numbers of exotic plants and animals that enter the U.S. via Florida ports each year. Also, during several presentations and a day-long field trip, members learned how extensively invasive plants and animals have infested Florida's natural areas, and how, through intergovernmental cooperation, even seemingly overwhelming invasive plant problems can be resolved.

Jeff Schardt and Greg Jubinsky of the Florida Department of Environmental Protection (FDEP) presented overviews of the FDEP invasive aquatic and upland plant management programs. Francois Laroche of the South Florida Water Management District and Tony Pernas of the U.S. National Park Service were among the 25 state, federal, and local government and private company stakeholders who lead field trips into, over, and among stands of melaleuca and old world climbing fern infestations and control sites in the South Florida Water Conservation Areas.

Dr. Bill Haller with the University of Florida (UF) spoke on cooperative research and extension efforts and their roles in understanding and achieving control of invasive plants. Afterwards, Schardt reviewed the initiative to develop national

submersed aquatic plant research priorities; a project organized by Dr. Mark Sytsma at Portland State University. This December 2005 effort will be summarized and published in a special issue of the *Journal of Aquatic Plant Management* in late 2007. Schardt presented a motion to the ISAC to recommend that the NISC write to the Assistant Secretary of the Army for Civil Works and the Army Chief of Engineers to seek increased funding for the Corps of Engineers' Aquatic Plant Control Program so that approximately \$6-7 million would be available annually to conduct in-house and contracted aquatic plant research. The ISAC voted without dissent, to make this request to NISC.

Amy Richard with the UF Center for Aquatic and Invasive Plants presented information on initiatives to create invasive plant management curricula in Florida schools and to train Florida teachers on invasive plant issues – a project conceived by Honorary APMS Member, Vic Ramey. With a few minor adjustments, this information would be relevant across the U.S. After Richard's presentation, the ISAC expressed interest in working with the National Environmental Education Foundation Environmental Education Week in April 2008, to focus on invasive species issues – an opportunity that could lead to the development of invasive species related curricula for the nation's schools. For more information on Florida's teacher initiatives regarding invasive plants, please visit: <http://plants.ifas.ufl.edu/education>.

The APMS is well represented on the ISAC with three of its 30 members also members of APMS: Earl Chilton, Texas Parks and Wildlife; Jeff Schardt, Florida Department of Environmental Protection; and Jennifer Vollmer, BASF. For additional information on the ISAC and NISC please visit their web sites currently housed on the USDA website at: <http://www.invasivespeciesinfo.gov/>.

Invasive Plant Science and Management

The Weed Science Society of America (WSSA) is pleased to announce that it is creating a new journal titled *Invasive Plant Science and Management*.

This new journal will focus on fundamental and applied research on invasive plant biology, ecology, management, and restoration of invaded non-crop areas, as well as on educational, sociopolitical, and technological aspects of invasive plant management.

The first issue is expected to be published in early 2008. Articles on the following topics are being solicited: the biology and ecology of invasive plants in rangeland, parkland, prairie, pasture, preserve, urban, wildland, forestry, riparian, wetland, aquatic, recreational, rights-of-way, and other non-crop settings; genetics of invasive plants; social, ecological, and economic impacts of invasive plants; design, efficacy, and integration of control tools; land restoration and rehabilitation; effects of management on soil, water, and wildlife; scholarship in education, extension, and outreach methods and resources; technology and product reports; mapping and remote sensing, inventory and monitoring; technology transfer tools; and regulatory issues.

Types of articles include research and education, case studies, reviews, symposium papers, and notes and commentary. Manuscripts will be peer-reviewed for content and presentation by two or more anonymous reviewers and an Associate Editor. Final acceptance or rejection is the prerogative of the Editor, Dr. Joseph DiTomaso.

Invasive Plant Science and Management will be published quarterly, beginning the first quarter in 2008. The journal will be available as a selected benefit of WSSA membership and also by individual subscription.

Instructions for contributions may be found at <http://www.wssa.net>. For more information, contact Editor Dr. Joseph DiTomaso at jmditomaso@ucdavis.edu.

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 web site at www.apms.org.

WSSA Undergraduate Research Award - 2008

The Weed Science Society of America has developed an Undergraduate Student Research Grant designed to encourage and involve exceptional undergraduates in agricultural research. Interested faculty members are encouraged to identify potential award candidates and discuss the possibility of sponsoring a research project. Awards may be used as a stipend, for research budget expenses (travel, supplies, etc.), to defer fees, to defray living expenses for summer research, or any combination of these items.

AWARD: Up to \$1000 for support of undergraduate research to be conducted over a minimum of one quarter/semester during 2008. This award may be used to defray the cost of research supplies or as a stipend. Support of a faculty sponsor is required. Awards will be made to the student, to be administered by the faculty sponsor's department.

APPLICANT: The applicant is an undergraduate student with a strong interest in Weed Science. Students majoring in all related disciplines may apply.

TO APPLY: Applicants should prepare a 2-3 page research proposal including name, address, phone number, title, objective, experimental approach, discussion, budget and references. The discussion section of the proposal should describe the expected results and their possible significance to Weed Science. The student should provide a cover letter in which general academic and career goals are discussed. A copy of the student's academic transcripts must also be provided.

FACULTY SPONSOR: Any faculty member who is actively engaged in Weed Science research is

qualified to be a sponsor. The faculty sponsor should review the research proposal with special attention to the budget; the distribution of funds should be approved by both the student and sponsor. In addition, the sponsor should provide a letter of reference including a statement of his/her willingness to supervise the proposed research and to provide needed space, equipment and supplies above those requested in the proposal. The sponsor is encouraged to assist the student in presenting his/her results at a regional Weed Science Meeting.

HOW TO APPLY: The completed proposal, academic transcripts, cover letter and faculty letter of support should be forwarded to:

Dr. John Jachetta
Dow AgroSciences
9330 Zionsville Road
Indianapolis, IN 46268-1054
Phone: (317) 337-4686
Fax: (317) 337-4649
E-mail: jjjachetta@dow.com

Proposals should be received no later than November 16, 2007. Funding decisions will be made by January 25, 2008 and presented at the 2008 WSSA National Meeting General Session.

Right-of-Way and Aquatic Pesticide Applicator Training Course

The University of Florida Institute of Food and Agricultural Science (IFAS) is offering a training course for aquatic and right-of-way pesticide applicators. The course will be held October 16-18, 2007, at the Edgewater Beach Resort in Panama City, Florida.

You will benefit from this program if you:

- Need CEU's for Alabama, Florida, Georgia, Louisiana, Mississippi, and Texas licenses;
- Need Pesticide Applicator CEU's in the following categories: Aquatic, Right-of-Way, General Standards (CORE), Natural Areas;

- Conduct weed control in canals, lakes, water retention ponds, golf course ponds, rivers, parks, highway right-of-ways, and transmission lines;
- Are employed by a public agency or private company which is responsible for vegetation management along right-of-ways and in natural areas;
- Are employed by a basic manufacturer or distributor that markets aquatic or vegetation management herbicides;
- Use biological control techniques to suppress aquatic weed growth;
- Establish and maintain wetland mitigation areas.

For additional information, contact:

Jhanna Crutchfield
 Conference Coordinator
 Phone: (352) 392-5930
 Fax: (352) 392-9734
 E-mail: jhanna@ufl.edu

Information, online registration, and a tentative agenda can be found at: <http://conference.ifas.ufl.edu/applicator>. There is a reduced registration fee (\$225.00) if registration is received by July 16, 2007.

Welcome New Members

The Aquatic Plant Management Society is pleased to welcome the following new members since March 2007.

Nathan Long, Seymour, IN
 Annie Dunn, Research Triangle Park, NC
 Ross Gilbert, Orange, NSW, Australia
 Vlady Diaz Henriquez, Del Valle, Mexico
 Craig Smith, Wellington, FL
 Christopher Bramley, Las Vegas, NV
 Sarah Berger, Kissimmee, FL

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.

Get Involved in the APMS Join a Committee

We all enjoy being part of a dynamic and worthy organization. We also should do our part to make sure that the APMS stays a vital and exciting organization. The APMS is an all-volunteer group that will not work without all of our efforts. One way to become involved is to participate in a committee. There are many committees that need your participation and input. For a list of committees and their respective duties, check out the APMS Bylaws (Article XIII) posted on the APMS website. If you are interested in serving on a committee, you can sign up at the July Annual Meeting in Nashville (sign-up sheets posted at the registration desk) or contact the President or President Elect at the following email addresses:

President: Don Doggett
doggett@lchcd.org

President Elect: Jim Petta
jim.petta@syngenta.com

Pre-Final Program

Sunday, July 15

Sunday's Agenda-at-a-Glance

- 7:30 am - 5:00 pm APMS Board of Directors Meeting (*Belmont A*)
- 12:00 pm - 5:00 pm Exhibits Setup (*Tennessee AB*)
- 12:00 pm - 5:00 pm Posters Setup (*Tennessee AB*)
- 1:00 pm - 5:00 pm Registration (*Tennessee Registration Desk*)
- 1:00 pm - 5:00 pm Speaker Ready Room (*Belmont B*)
- 2:00 pm - 5:00 pm MSAPMS Board of Directors Meeting (*Lincoln B*)
- 7:00 pm - 9:00 pm President's Reception (*Tennessee DE*)
Sponsored by SePRO Corporation

Monday, July 16

Monday's Agenda-at-a-Glance

- 7:30 am - 8:00 am Continental Breakfast (*Tennessee AB*)
Sponsored by BASF Corporation
- 7:30 am - 5:00 pm Registration (*Tennessee Registration Desk*)
- 7:30 am - 5:00 pm Speaker Ready Room (*Belmont B*)
- 7:30 am - 5:00 pm Exhibits Open (*Tennessee AB*)
- 7:30 am - 5:00 pm Posters Open (*Tennessee AB*)
- 8:00 am - 12:00 pm Session I: Presidential Address and Special Session: Invasive and Protected Species Interactions
(*Tennessee DE*)
- 9:30 am - 10:00 am Refreshment Break (*Tennessee AB*)
Sponsored by BASF Corporation
- 12:00 pm - 1:30 pm Lunch
- 12:00 pm - 1:30 pm Aquatic Ecosystem Restoration Foundation Meeting (*Hermitage AB*)
- 12:00 pm - 1:30 pm Student Affairs Luncheon (*Hermitage E*)
Sponsored by TBA
- 1:30 pm - 4:30 pm Session II: Management and Ecology of Nuisance and Invasive Plants (*Tennessee DE*)
- 3:00 pm - 3:30 pm Refreshment Break (*Tennessee AB*)
Sponsored by BASF Corporation
- 4:30 pm - 5:00 pm APMS Annual Business Meeting (*Tennessee DE*)
- 5:30 pm - 7:00 pm Poster Session and Reception (*Tennessee AB*)
Sponsored by Syngenta Professional Products

Session I: Presidential Address and Special Session: Invasive and Protected Species Interactions

8:00 am - 12:00 pm

Tennessee DE

Moderator: Donald W. Doggett, *Lee County Hyacinth Control District, Fort Myers, FL*

- 8:00 am **Opening Remarks and Announcements**
- 8:10 am **Presidential Address**
Donald W. Doggett
Lee County Hyacinth Control District, Fort Myers, FL
- 8:30 am **Invasive Species and Conflicts: Setting the Stage National Invasive Species Council**
Jennifer Vollmer
BASF Corporation, Laramie, WY

- 8:50 am **Managing for Biodiversity**
Barry A. Rice
The Nature Conservancy, Global Invasive Species Initiative, Davis, CA
- 9:10 am **Federal Research Perspective on the Interaction of Endangered and Invasive Species**
Rachel Claire Muir
U.S. Geological Survey, Reston, VA
- 9:30 am **Refreshment Break (Tennessee AB)**
- 10:00 am **Managing Invasive Plants with Consideration for the Whole Plant Assemblage**
Ken Wagner
North American Lake Management Society (NALMS), Madison, WI
- 10:20 am **A View from the NWR**
Michael Lusk
National Wildlife Refuge, Arlington, VA
- 10:40 am **Europe: A View from across the Pond**
Jonathan Newman
Centre for Aquatic Plant Management, Berkshire, UK
- 11:00 am **State of Massachusetts**
Misty-Anne R. Marold
Massachusetts Division of Fisheries and Wildlife, Westborough, MA
- 11:20 am **An Industry Perspective**
Jim Skillen
Responsible Industry for a Sound Environment (RISE), Washington, DC
- 11:40 am **Panel Discussion: All Session Presenters**
Please submit questions to the moderator during the morning break
- 12:00 pm **Lunch**

Session II: Management and Ecology of Nuisance and Invasive Plants

1:30 pm - 4:30 pm

Tennessee DE

Moderator: John D. Madsen, *Mississippi State University, GeoResources Institute, Mississippi State, MS*

- 1:30 pm **A Pathogen for Control of Alligator Weed in the Australian Core Infestation**
(Student Presentation)
Ross L. Gilbert^{1,2}, G. M. Gurr¹, and M. J. Priest²
¹*Charles Sturt University, School of Rural Management, NSW, Australia.*
²*NSW Department of Primary Industries, Orange Agricultural Institute, NSW, Australia*
- 1:45 pm **The Status of Fluridone Resistant Hydrilla in Florida and Its Impact on Operations and Research**
Michael D. Netherland
U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL
- 2:00 pm **Evaluation of Imazamox for Control of Eurasian Watermilfoil (Student Presentation)**
Joseph D. Vassios, Scott J. Nissen, and Galen Brunk
Colorado State University, Fort Collins, CO
- 2:15 pm **Community Effects of Large-scale Changes in Plant Composition after a Lake-wide Herbicide Treatment (Student Presentation)**
Katya E. Kovalenko
Mississippi State University, Department of Wildlife and Fisheries, Mississippi State, MS

- 2:30 pm **Case Study: Selective Control of Eurasian Watermilfoil Using Diquat – Four Years of Results**
 Marc Bellaud¹, **Jim Petta**², Gerald Smith¹ and Michael Lennon¹
¹*Aquatic Control Technology, Inc., Sutton, MA*
²*Syngenta Professional Products, Corpus Christi, TX*
- 2:45 pm **Effects of Adjuvants on Phytotoxicity of Diquat to Aquatic and Terrestrial Plants (Student Presentation)**
Tomas F. Chiconela¹, William T. Haller¹, Gregory E. MacDonald², Michael D. Netherland³, D. Wofford², and R. McGovern⁴
¹*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*
²*University of Florida, Agronomy Department, Gainesville, FL*
³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL*
⁴*University of Florida, Department of Plant Pathology, Gainesville, FL*
- 3:00 pm **Refreshment Break (Tennessee AB)**
- 3:30 pm **Impact of Aquathol K Applications on Largemouth Bass Spawning Behavior and Production of Young Fish (Student Presentation)**
Matthew Marshall, Michael Maceina, and Steven Sammons
Auburn University, Department of Fisheries, Auburn, AL
- 3:45 pm **Flumioxazin Development for Aquatic Weed Control (Student Presentation)**
Christopher R. Mudge and William T. Haller
University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL
- 4:00 pm **Water Hyacinth Management**
M. Saeed¹ and M. Shafi²
¹*Agricultural University, Department of Weed Science, Peshawar, Pakistan*
²*Agricultural University Faisalabad, Pakistan*
- 4:15 pm **J. Strom Thurmond Reservoir Avian Vacuolar Myelinopathy (AVM) Epizootic: Field Assessment and Management Plan (Student Presentation)**
Rebecca S. Haynie
Clemson University, Institute of Environmental Toxicology, Clemson, SC
- 4:30 pm **Adjourn**

APMS Annual Business Meeting

4:30 pm - 5:00 pm
 Tennessee DE

Poster Session

5:30 pm - 7:00 pm
 Tennessee AB

A Temperate Lake Study of the Cyanobacterium *Cylindrospermopsis raciborskii* (Student Poster)
Clay H. Britton, Carole A. Lembi, and Robert E. Pruitt
Purdue University, Department of Botany and Plant Pathology, West Lafayette, IN

Digital Growth of Common Reed (*Phragmites australis* (Cav.) Trin. ex Steud) (Student Poster)
Joshua C. Cheshier and John D. Madsen,
Mississippi State University, GeoResources Institute, Mississippi State, MS

Development of an Overseas Biological Control Program for Eurasian Watermilfoil (*Myriophyllum spicatum*)
Mathew J. W. Cock, Harriet L. Hinz, Gitta Grosskopf, and Patrick Hafliger
CABI Europe Switzerland, Delémont, Switzerland

Glyphosate and Aterbane Acute Toxicities to South American Tropical Fishes

Claudinei da Cruz, Natalia Sayuri Shiogiri, Matheus Nicolino Peixoto Henares, Silvia Patricia Carraschi, and **Robinson Antonio Pitelli**

EcoSafe Agriculture and Environmental Sciences, Jaboticabal, Sao Paulo, Brazil

Herbicides for Variable Leaf Milfoil Control (Student Poster)

Adam Frank, Robert J. Richardson, and Andrew P. Gardner

North Carolina State University, Raleigh, NC

***Hydrellia pakistanae* Development on Monoecious Hydrilla under Greenhouse Mass-rearing Conditions**

Jan E. Freedman and Michael J. Grodowitz

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

Evaluation and Registration of New Aquatic Herbicides

Kurt D. Getsinger¹, Angela G. Poovey¹, Michael D. Netherland², and Jeremy G. Slade³

¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*

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

³*Mississippi State University, Department of Wildlife and Fisheries, Vicksburg, MS*

Current Status on the Use of Insect Biocontrol for the Management of Hydrilla on Lake Gaston

Michael J. Grodowitz

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

The Development of Management Strategies for the Control of *Salvinia* spp. Using the Biocontrol Agent *Cyrtobagous salviniae*: Lake Conroe, TX – a Case Study

Michael J. Grodowitz¹, Blake Kellum², Chetta S. Owens³, Julie G. Nachtrieb⁴, and Nathan E. Harms⁴

¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*

²*San Jacinto River Authority, Conroe, TX*

³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

⁴*University of North Texas, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

Use of the *Hydrellia* Biocontrol Agents for Management of Hydrilla at Field Sites in the United States

Michael J. Grodowitz¹, Charlie E. Ashton², Julie G. Nachtrieb³, Nathan E. Harms³, and Chetta S. Owens⁴

¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*

²*U.S. Army Corps of Engineers, Jacksonville District, Jacksonville, FL*

³*University of North Texas, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

⁴*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

A Survey of North American Macrophyte Invertebrate Enemies (Student Poster)

Nathan Harms¹ and Michael J. Grodowitz²

¹*University of North Texas, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*

Acute Toxicity of Diquat to South American Tropical Fishes

Matheus Nicolino Peixoto Henares, Claudinei da Cruz, Gabriela Roncada Gomes, and **Robinson Antonio Pitelli**

UNESP/NEPEAM, Jaboticabal, Sao Paulo, Brazil

Sediment Nitrogen Depletion by *Hydrilla verticillata*

David Honnell¹, R. Michael Smart², and **Dian H. Smith**¹

¹*University of North Texas, Institute of Applied Science, Denton, TX*

²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

Pilot-scale Production and Stabilization of Microsclerotia of the Potential Mycoherbicide *Mycocleptodiscus terrestris* Using Deep-tank Fermentation and Air-drying

Mark A. Jackson¹, Judy F. Shearer², and Mark A. Heilman³

¹U.S. Department of Agriculture, Agriculture Research Service, Peoria, IL

²U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

³SePRO Corporation, Whitakers, NC

Endothall Combinations with 2,4-D and Triclopyr for Control of Eurasian Watermilfoil

John D. Madsen¹, Kurt D. Getsinger², and Ryan M. Wersal¹

¹Mississippi State University, GeoResources Institute, Mississippi State, MS

²U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Wild Rice (*Zizania aquatica* L.) Susceptibility to the Aquatic Herbicide Triclopyr

John D. Madsen¹, Kurt D. Getsinger², and Ryan M. Wersal¹

¹Mississippi State University, GeoResources Institute, Mississippi State, MS

²U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Initial Mapping of Hydrilla and Other Submerged Vegetation in Lake Manitou, Indiana

Jeffrey Myers¹ and Bob Johnson²

¹ReMetrix LLC, Carmel, IN

²SePRO Corporation, Brownstown, IN

Mesocosm Evaluation of Fluridone and *Mycocleptodiscus terrestris* for Control of Hydrilla

Linda S. Nelson and Judy F. Shearer

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

Impact of Insect Herbivory on Dispersal in *Hydrilla verticillata* (L.f.) Royle

Chetta S. Owens¹, Michael J. Grodowitz², and R. Michael Smart¹

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

²U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

***Salvinia molesta* – A Review of Past Research and What's Coming Up!**

Chetta S. Owens, R. Michael Smart, and Gary O. Dick

U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX

Multivariate Studies in a Macrophyte Community Colonizing the Santana Reservoir, Rio de Janeiro, Brazil

Robinson Luiz de Campos Machado Pitelli¹, Claudia Maria Toffanelli Fiorillo², Edivaldo Domingues Velini³, Antonio Sergio Ferraudo², and **Robinson Antonio Pitelli**²

¹EcoSafe Agriculture and Environmental Sciences, Jaboticabal, Sao Paulo, Brazil

²UNESP/NEPEAM, Jaboticabal, Sao Paulo, Brazil

³UNESP/NUPAM, Fazenda Lageado, Brazil

Seasonal Biomass Detection of Waterhyacinth Using Normalized Difference Vegetation Index Derived From Landsat 5 TM Simulated Data (Student Poster)

Wilfredo Robles and John D. Madsen

Mississippi State University, GeoResources Institute, Mississippi State, MS

Giant *Salvinia* Response to Submersion and Herbicides (Student Poster)

Rory L. Roten, Robert J. Richardson, and Andrew P. Gardner

North Carolina State University, Raleigh, NC

Three-year Summary of Monitoring Invasive Brazilian Waterweed in the Sacramento-San Joaquin Bay-Delta, CA

Scott A. Ruch¹ and Kurt A. Shanayda²

¹ReMetrix LLC, Berkeley, CA

²ReMetrix LLC, Carmel, IN

Sonar for Duckweed Control in Madison County, Arkansas

George Selden¹ and Darrin Henderson²

¹*University of Arkansas at Pine Bluff, Newport, AR*

²*University of Arkansas, Huntsville, AR*

Effects of Scaling-up on Mycoherbicide Characteristics

Judy F. Shearer¹, Mark A. Jackson², and Mark A. Heilman³

¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*

²*U.S. Department of Agriculture, Agriculture Research Service, Peoria, IL*

³*SePRO Corporation, Whitakers, NC*

Impact of Biological Control Agents on Fluridone Resistant and Susceptible Hydrilla Biotypes

Judy F. Shearer, Jan E. Freedman, and Michael J. Grodowitz

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

The Potential Role of Endophytic Fungi on *Myriophyllum spicatum* Senescence

Judy F. Shearer

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

Control of Sago Pondweed at Low Temperatures Using Endothall

Jeremy G. Slade¹, Kurt D. Getsinger², and Angela G. Poovey²

¹*Mississippi State University, Department of Wildlife and Fisheries, Vicksburg, MS*

²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*

Lake Gaston (NC-VA) Ecological Studies: 2006

R. Michael Smart

U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX

Phragmites Control with Imazapyr, Glyphosate, and Triclopyr (*Student Poster*)

Sarah L. True¹, Lloyd Hipkins², Robert J. Richardson¹, and Andrew P. Gardner¹

¹*Virginia Tech, Blacksburg, VA*

²*North Carolina State University, Raleigh, NC*

Incorporation of ArcGis Methodology to Determine the Biomass of Aquatic Plant Communities in the Atchafalaya River Basin, Louisiana, USA

Rachel C. Walley, Michael D. Kaller, William E. Kelso

Louisiana State University Agricultural Center, School of Renewable Natural Resources, Baton Rouge, LA

Comparison of Imazapyr and Imazamox for Control of Parrotfeather (*Myriophyllum aquaticum* (Vell.) Verdc.) (*Student Poster*)

Ryan M. Wersal and John D. Madsen

Mississippi State University, GeoResources Institute, Mississippi State, MS

Alligatorweed Control with Herbicides (*Student Poster*)

Amanda M. West, Robert J. Richardson, and Andrew P. Gardner

North Carolina State University, Raleigh, NC

Point-intercept and Surface Observation Geographic Positioning Systems (SOG) Surveys: A Comparison of Survey Methods – Lake Gaston, NC/VA

Lynde L. Williams¹, R. Michael Smart², and Chetta S. Owens²

¹*University of North Texas, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*

Future Research and Management Objectives for Avian Vacuolar Myelinopathy

Sarah Williams¹, Michael Hook², and Susan B. Wilde³

¹South Carolina Department of Natural Resources, Charleston, SC

²University of South Carolina, Columbia, SC

³University of South Carolina-Belle Baruch Institute, South Carolina Department of Natural Resources, Marine Resources Division, Charleston, SC

Tuesday, July 17

Tuesday's Agenda-at-a-Glance

- 6:30 am - 8:00 am Regional Chapters Presidents' Breakfast (*Belmont A*)
Sponsored by Helena Chemical Company
- 7:30 am - 8:00 am Continental Breakfast (*Tennessee AB*)
Sponsored by BASF Corporation
- 7:30 am - 5:00 pm Registration (*Tennessee Registration Desk*)
- 7:30 am - 5:00 pm Speaker Ready Room (*Belmont B*)
- 7:30 am - 5:00 pm Exhibits Open (*Tennessee AB*)
- 7:30 am - 5:00 pm Posters Open (*Tennessee AB*)
- 8:00 am - 12:00 pm Session III: Invasive and Nuisance Plant Monitoring, Physiology, and Management (*Tennessee DE*)
- 9:00 am - 2:30 pm Guest Tour (*Meet in Magnolia Lobby*)
Sponsored by Applied Biochemists
- 9:30 am - 10:00 am Refreshment Break (*Tennessee AB*)
Sponsored by BASF Corporation
- 12:00 pm - 1:30 pm Lunch
- 12:00 pm - 1:30 pm Past Presidents' Luncheon (*Belmont A*)
Sponsored by Valent Professional Products
- 1:30 pm - 5:00 pm Session IV: Invasive Plant Species, Aquatic Habitat Management, and Special Session: MidSouth Issues (*Tennessee DE*)
- 3:00 pm - 3:30 pm Refreshment Break (*Tennessee AB*)
Sponsored by BASF Corporation
- 5:00 pm - 5:30 pm MSAPMS Annual Business Meeting (*Tennessee DE*)
- 6:00 pm - 10:00 pm Banquet (*Hermitage CD*)
Sponsored by United Phosphorus Inc.

Session III: Invasive and Nuisance Plant Monitoring, Physiology, and Management

8:00 am - 12:00 pm

Tennessee DE

Moderator: Judy F. Shearer, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

- 8:00 am **High-accuracy Mapping of *Egeria densa* Using Satellite Imagery**
Catherine Huybrechts
Endpoint Environmental, San Francisco, CA
- 8:15 am **Common Reed: *Phragmites australis* (Cav.) Trin. Ex Steud: Life History in the Mobile River Delta, Alabama (*Student Presentation*)**
Joshua C. Cheshier and John D. Madsen
Mississippi State University, GeoResources Institute, Mississippi State, MS
- 8:30 am **Growth Response of *Potamogeton crispus* to Lime Application in Experimental Mesocosms**
William F. James
U.S. Army Engineer Research and Development Center, Environmental Laboratory, Spring Valley, WI
- 8:45 am **Influences of Light Intensity Variations on Growth Characteristics of Parrotfeather (*Myriophyllum aquaticum* (Vell.) Verdc.) (*Student Presentation*)**
Ryan M. Wersal and John D. Madsen
Mississippi State University, GeoResources Institute, Mississippi State, MS

- 9:00 am **Watermeal Response to Fluridone and Other Herbicides**
Andrew P. Gardner and Robert J. Richardson
North Carolina State University, Raleigh, NC
- 9:15 am **Detection of Herbicide Injury on Waterhyacinth Using Landsat 5 TM Simulated Data (Student Presentation)**
Wilfredo Robles and John D. Madsen
Mississippi State University, GeoResources Institute, Mississippi State, MS
- 9:30 am **Refreshment Break (Tennessee AB)**
- 10:00 am **Exposure of Native American's to Fluridone through the Ingestion of Tules from Clear Lake, California - Exposure and Risk**
Susan G. Monheit¹, Robert C. Leavitt¹, Elaine Wong², and P. Akers²
¹*California Department of Food and Agriculture, Sacramento, CA*
²*California Department of Food and Agriculture, Center for Analytical Chemistry, Sacramento, CA*
- 10:15 am **The Impact of Fluridone on Target and Non-target Plant Species: Data from Monitoring of Actual Lake Treatments**
Ken Wagner
ENSR Water Resources, Willington, CT
- 10:30 am **Home Sweet Home: Macroinvertebrate Assemblages in Beds of Monotypic Hydrilla, Diverse Native Aquatic Plants, and a Plantless Habitat (Student Presentation)**
Heather J. Theel and Eric D. Dibble
Mississippi State University, Department of Wildlife and Fisheries, Mississippi State, MS
- 10:45 am **Integrating Acoustic Mapping into Operational Aquatic Plant Management: A Case Study in Wisconsin**
Bruce Sabol¹, Jim Kannenberg², and John Skogerboe³
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
²*Marine Biochemists, Inc., Germantown, WI*
³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Spring Valley, WI*
- 11:00 am **Sexual Preference and Alternative Life Cycles in *Hydrilla*: Monecious and Dioecious**
Chetta S. Owens
U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX
- 11:15 am **Laboratory Experiments with Algimycin® PWF and Copper Sulfate Pentahydrate to Predict Risks for Non-target Species (Student Presentation)**
Brenda M. Johnson, Matthew M. Chao, O'Niell R. Tedrow, and John H. Rodgers, Jr.
Clemson University, Department of Forestry and Natural Resources, Clemson, SC
- 11:30 am **An Integrated Approach to Invasive Plant Management: Biocontrol and Native Plant Interactions**
Julie G. Nachtrieb¹, Michael J. Grodowitz², R. Michael Smart³, and Chetta S. Owens³
¹*University of North Texas, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*
- 11:45 am **Response of Three Populations of Cabomba to Different Herbicides and Environmental Variables (Student Presentation)**
Brett W. Bultemeier¹, Michael D. Netherland², and William T. Haller¹
¹*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL*
- 12:00 pm **Lunch**

Session IV: Invasive Plant Species, Aquatic Habitat Management, and Special Session: MidSouth Issues

1:30 pm - 5:00 pm

Tennessee DE

Moderator: Bryan Goldsby, *AquaServices, Inc., Guntersville, AL*

- 1:30 pm **Collaborative Study of New Production Methods and Related Efficacy on Target Submersed Weeds to Support Development of the Potential Bioherbicide *Mycocleptodiscus terrestris***
Mark A. Heilman¹, Mark A. Jackson², Judy F. Shearer³, and Linda S. Nelson³
¹*SePRO Corporation, Whitakers, NC*
²*U.S. Department of Agriculture, Agriculture Research Service, Peoria, IL*
³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
- 1:45 pm **Intensive Grass Carp Stocking Effects on Reservoir Invasive Plants and Native Fish Populations (Student Presentation)**
A. Brad Garner¹, Thomas J. Kwak¹, Kenneth L. Manuel², and D. Hugh Barwick³
¹*North Carolina State University, Cooperative Fish and Wildlife Research Unit, Raleigh, NC*
²*Duke Energy Environmental Center, Huntersville, NC*
³*Duke Energy Carolinas, Charlotte, NC*
- 2:00 pm **Use of Multi-attribute Utility Analysis for the Identification of Aquatic Plant Restoration Sites**
Michael J. Grodowitz¹, R. Michael Smart², Joe Snow³, Gary O. Dick², and Jeffrey A. Stokes⁴
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*
³*University of North Texas, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*
⁴*Bowhead Information Technology Services, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
- 2:15 pm **Houghton Lake: Submerged Vegetation Response Five-years after a Large-scale, Low-dose, Whole-lake Sonar® Treatment**
Doug Henderson¹ and Paul Hausler²
¹*ReMetrix LLC, Carmel, IN*
²*Progressive AE, Grand Rapids, MI*
- 2:30 pm **Effects of Aquatic Vegetation Management on the Ecology of Small Impoundments (Student Presentation)**
Trevor J. Knight and Michael P. Masser
Texas A&M University, Texas Cooperative Extension, College Station, TX
- 2:45pm **Integrating Plant Management within Ongoing Field and Laboratory Research on Avian Vacuolar Myelinopathy**
Susan B. Wilde¹, Sarah Williams², Rebecca S. Haynie³, Jessica Alexander⁴, Faith Wiley^{3,5}, Charlotte Hope², Tom Murphy², William Bowerman³, and Fran Van Dolah⁵
¹*University of South Carolina-Belle Baruch Institute, South Carolina Department of Natural Resources, Marine Resources Division, Charleston, SC*
²*South Carolina Department of Natural Resources*
³*Clemson University, Institute of Environmental Toxicology, Clemson, SC*
⁴*University of South Carolina, Marine Science Department, Columbia, SC*
⁵*NOAA National Ocean Service, Charleston, SC*
- 3:00 pm **Refreshment Break (Tennessee AB)**
- 3:30 pm **Invasive Species Information Systems and Technology Transfer**
Jeffery A. Stokes¹, Sherry G. Whitaker², Michael J. Grodowitz², and Lavon Jeffers¹
¹*Bowhead Information Technology Services, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*

- 3:45 pm **Evaluation of Potential Cross-resistance in Fluridone-resistant Hydrilla to Other Bleaching Herbicides**
Atul Puri¹, William T. Haller¹, and Michael D. Netherland²
¹*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL*
- 4:00 pm **Problematic Aquatic Plants of the MidSouth**
John D. Madsen
Mississippi State University, GeoResources Institute, Mississippi State, MS
- 4:15 pm **Efforts to Control *Lyngbya wollei* on the Coosa River System in Alabama**
Jason C. Carlee
Alabama Power Company, Birmingham, AL
- 4:30 pm **What's the Worst that Can Happen? An Applicator's Guide to Safety**
Carlton Layne
Aquatic Ecosystem Restoration Foundation, Marietta, GA
- 5:00 pm **Adjourn**

MSAPMS Annual Business Meeting

5:00 pm - 5:30 pm
Tennessee DE

Wednesday, July 18

Wednesday's Agenda-at-a-Glance

- 6:30 am - 8:00 am MSAPMS Board of Directors Meeting (*Ryman Studio DE*)
- 7:30 am - 8:00 am Continental Breakfast (*Tennessee AB*)
Sponsored by BASF Corporation
- 7:30 am - 12:00 pm Registration (*Tennessee Registration Desk*)
- 7:30 am - 12:00 pm Speaker Ready Room (*Belmont B*)
- 7:30 am - 12:00 pm Exhibits Open (*Tennessee AB*)
- 7:30 am - 12:00 pm Posters Open (*Tennessee AB*)
- 8:00 am - 12:00 pm Session V: Herbicide Developments, Invasive and Nuisance Plants and Algae (*Tennessee DE*)
- 9:30 am - 10:00 am Refreshment Break (*Tennessee AB*)
Sponsored by BASF Corporation
- 12:00 pm - 5:00 pm APMS Board of Directors Meeting (*Belmont A*)
- 12:00 pm - 5:00 pm Exhibits Teardown (*Tennessee AB*)
- 12:00 pm - 5:00 pm Posters Teardown (*Tennessee AB*)
- 1:30 pm - 5:00 pm Aquatic Plant Control Research Program Review - Corps of Engineers Only (*Belmont C*)

Session V: Herbicide Developments, Invasive and Nuisance Plants and Algae

8:00 am - 12:00 pm
Tennessee DE

Moderator: **Ryan Wersal**, *Mississippi State University, GeoResources Institute, Mississippi State, MS*

- 8:00 am **Alternative Algae Control in California Rice Fields: Evaluation of Barley Straw**
David F. Spencer¹ and Carole A. Lembi²
¹*U.S. Department of Agriculture, Exotic and Invasive Weeds Research Unit, Davis, CA*
²*Purdue University, Department of Botany and Plant Pathology, West Lafayette, IN*

- 8:15 am **Sago Pondweed Response to Soil Applied Imazamox and Imazapyr**
Scott J. Nissen, Joe Vassios, and Galen Brunk
Colorado State University, Ft. Collins, CO
- 8:30 am **Early Spring Application of Endothall Combined with 2,4-D for Selective Control of Eurasian Watermilfoil and Curly-leaf Pondweed**
John G. Skogerboe¹ and Kurt D. Getsinger²
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Spring Valley, WI*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
- 8:45 am ***Eichhornia crassipes* Control with Diquat and Its Effect on Periphytic Community, under Mesocosm Conditions**
Andre T. Martins and **Robinson Antonio Pitelli**
UNESP/NEPEAM, Jaboticabal, Sao Paulo, Brazil
- 9:00 am **Responses of Invasive Strains of *Lyngbya* to Algaecide Exposures**
John H. Rodgers and Brenda M. Johnson
Department of Forestry and Natural Resources, Clemson University, Clemson, SC
- 9:15 am **Penoxsulam: A New Aquatic Herbicide for Large-scale Aquatic Plant Management**
Tyler Koschnick¹, Mark A. Heilman², and Sarah Miller²
¹*SePRO Corporation, Carmel, IN*
²*SePRO Corporation, Whitakers, NC*
- 9:30 am **Refreshment Break (Tennessee AB)**
- 10:00 am **Evaluation of 2,4-D Ester and Triclopyr against Waterlily and Spatterdock**
LeeAnn M. Glomski¹ and Linda S. Nelson²
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
- 10:15 am **Microsponge Technology for Rainfastness and Weatherability**
Lucy Marshall and Rick Lowe
BioSorb, Inc., Saint Charles, MO
- 10:30 am **Effects of Imazamox Treated Irrigation Water on Selected Agronomic and Horticultural Crops**
Dearl Sanders, Bert McCarty, Daniel Beran³, Todd Horton³, and Joe Vollmer³
¹*Louisiana State University Agricultural Center, Idlewild Research Station, Clinton, LA*
²*Clemson University, Clemson, SC*
³*BASF Corporation, Raleigh, NC*
- 10:45 am **What's New at the Center for Aquatic and Invasive Plants' Information Office**
Karen Brown
¹*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*
- 11:00 am **Effects of the ALS Inhibitors on Algae**
Carole A. Lembi¹, Michael D. Netherland², and Debra D. Lubelski¹
¹*Purdue University, Department of Botany and Plant Pathology, West Lafayette, IN*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL*
- 11:15 am **Response of Selected Weed Species to Imazamox**
Robert J. Richardson and Andrew P. Gardner
North Carolina State University, Raleigh, NC

11:30 am

APMS Chapter Updates

Brazil, Florida, MidSouth, Midwest, Nile Basin, Northeast, South Carolina, Texas, Western

12:00 pm

Closing Remarks and Adjourn 47th Annual Meeting

Donald W. Doggett, *Lee County Hyacinth Control District, Fort Myers, FL*

NEXT YEAR
48th Annual Meeting
July 13-16, 2008
The Mills House Hotel
Charleston, SC

~ CALENDAR OF EVENTS ~

Date:	Event:	Contact/Go to:
June 4-7, 2007	18 th Annual Florida Lake Management Society (FLMS) Conference; Naples, GA	http://films.net/conference/info.htm
June 6-9, 2007	4 th North American Reservoir Symposium; Atlanta, GA	http://www.sdafs.org/reservoir/symposium/
June 10-15, 2007	Society of Wetland Scientists (SWS), International Conference; Sacramento, CA	http://www.sws.org/sacramento2007
June 18-21, 2007	14 th European Weed Research Society (EWRS) Symposium; Hamar, Norway	http://sites.web123.no/Planteforsk/EWRSSymposium/hjem.cfm
July 4-6, 2007	Change in Aquatic Ecosystems 2007: Natural and Human Influences; Plymouth, UK	http://www.aquaticchange07.org/
July 15-18, 2007	47 th Annual Meeting, Aquatic Plant Management Society (APMS); Nashville, TN	http://www.apms.org/2007/2007.htm
August 5-10, 2007	Ecological Society of America/Society of Ecological Restoration (ESA/SER) Joint Meeting; San Jose, CA	http://www.esa.org/sanjose/
August 12-18, 2007	30 th Congress of the International Association of Theoretical and Applied Limnology; Montreal, QC, Canada	http://www.sil2007.org/
August 15-16, 2007	4 th Mid-Atlantic Exotic Pest Plant Council's (MA-EPPC) Invasive Plant Conference; Philadelphia, PA	http://www.ma-eppc.org/
August 15-17, 2007	South Carolina Aquatic Plant Management Society (SCAPMS) Meeting; Springmaid Beach, SC	http://www.scapms.org
September 2-6, 2007	137 th Annual Meeting, American Fisheries Society (AFS); San Francisco, CA	http://www.fisheries.org
September 17-19, 2007	Texas Aquatic Plant Management Society Annual Conference; Burnet, TX	http://www.tapms.org/
September 17-21, 2007	9 th International Conference on the Ecology and Management of Alien Plant Invasions; Perth, Western Australia	http://www.congresswest.com.au/emap09/
September 23-27, 2007	15 th International Conference on Aquatic Invasive Species; Nijmegen, The Netherlands	http://www.icaais.org/index.html
September 24-27, 2007	North American Weed Management Association (NAWMA) 2007; Las Vegas, NV	http://www.nawma.org
October 2-4, 2007	31 st Annual Training Conference, Florida Aquatic Plant Management Society; St. Petersburg, FL	http://www.fapms.org/meeting.html
October 29-November 3, 2007	International Symposium of the North American Lake Management Society (NALMS); Orlando, FL	http://www.nalms.org/
November 4-8, 2007	Estuarine Research Federation Meeting (ERF) 2007; Providence, RI	http://www.erf.org/erf2007/

2007 APMS Officers, Directors, Committee Chairs and Special Representatives

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