

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 *Mycoleptodiscus terrestris* Using Deep-tank Fermentation and Air-drying

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

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

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

³*SePRO 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

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

²*U.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

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

²*U.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

¹*ReMetrix LLC, Carmel, IN*

²*SePRO Corporation, Brownstown, IN*

Mesocosm Evaluation of Fluridone and *Mycoleptodiscus 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

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*

***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

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

²*UNESP/NEPEAM, Jaboticabal, Sao Paulo, Brazil*

³*UNESP/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

¹*ReMetrix LLC, Berkeley, CA*

²*ReMetrix 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

¹Virginia Tech, Blacksburg, VA

²North 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

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

²U.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 *Mycoleptodiscus 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 **Predicting Invasive Plant Species**
Alison M. Fox¹, Doria R. Gordon², Randall Stocker¹, and Daphne Onderdonk¹
¹*University of Florida, Agronomy Department, Gainesville, FL*
²*The Nature Conservancy, University of Florida, Botany Department, 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