Agenda

Sunday, July 13

Sunday’s Agenda-at-a-Glance

7:30 am - 5:00 pm  APMS Board of Directors Meeting (Harborview Room)
12:00 pm - 5:00 pm  Exhibits Setup (Oglethorpe Ballroom)
12:00 pm - 5:00 pm  Poster Setup (Oglethorpe Ballroom)
1:00 pm - 5:00 pm  Registration (Pre-function area between Oglethorpe and Madison Ballrooms)
3:00 pm - 5:00 pm  MAPMS Board of Directors Meeting (Lafayette Room)
7:00 pm - 9:00 pm  President’s Reception (Oglethorpe Ballroom)

Monday, July 14

Monday’s Agenda-at-a-Glance

7:00 am - 8:00 am  Continental Breakfast (Oglethorpe Ballroom)
7:00 am - 5:00 pm  Exhibits Open (Oglethorpe Ballroom)
7:00 am - 5:00 pm  Posters Open (Oglethorpe Ballroom)
7:30 am - 5:00 pm  Registration (Pre-function area between Oglethorpe and Madison Ballrooms)
7:55 am - 12:00 pm  Session I – Special Avian Vacuolar Myelinopathy Opening Session (Madison Ballroom)
10:00 am - 3:00 pm  Guest Tour – Pre-registered Guests meet in Hotel Lobby at 9:45 am
10:20 am - 10:40 am  Refreshment Break (Oglethorpe Ballroom)
12:00 pm - 1:30 pm  Lunch on your own
12:00 pm - 1:30 pm  APMS Student Affairs Luncheon (Monterey Room - 2nd Floor)
12:00 pm - 1:30 pm  Aquatic Ecosystem Restoration Foundation Meeting (Telefair Room - 2nd Floor)
1:30 pm - 4:20 pm  Session II – General Session and Student Presentations (Madison Ballroom)
2:50 pm - 3:20 pm  Refreshment Break (Oglethorpe Ballroom)
4:20 pm - 5:00 pm  APMS Annual Business Meeting (Madison Ballroom)
6:00 pm - 7:30 pm  Poster Session and Reception (Oglethorpe Ballroom)
9:00 pm - 10:30 pm  Historic Haunts Tour – Guests meet in Hotel Lobby at 8:45 pm – Limit 40

Session I – Special Avian Vacuolar Myelinopathy Opening Session
7:55 am - 12:00 pm  Madison Ballroom

Moderator: Dr. Cody Gray - APMS President Elect, Program Committee Chair
United Phosphorus, Incorporated, Peyton, CO

7:55 am  Presidential Address
Michael Netherland
APMS President, Gainesville, FL

8:00 am  Welcome to Savannah - Special Guest Speaker (TBD)

8:20 am  Avian Vacuolar Myelinopathy: Hydrilla, Toxic Cyanobacteria, and Management Efforts to Control Disease in Southeastern Reservoirs
Susan B. Wilde¹, Rebecca Haynie², Brigette Haram¹, and Bradley A. Bartelme¹
¹University of Georgia, Warnell School of Forestry and Natural Resources, Athens, GA
²SePRO Corporation, Carmel, IN

8:40 am  Investigating Hydrilla verticillata and Avian Vacuolar Myelinopathy Disease on a Southeastern Reservoir (Student Presentation)
Brigette Haram and Susan B. Wilde
University of Georgia, Warnell School of Forestry and Natural Resources, Athens, GA
9:00 am  Impacts of Avian Vacuolar Myelinopathy on Bald Eagles in Georgia
Jim C. Ozier
Georgia Department of Natural Resources, Wildlife Resources Division, Forsyth, GA

9:20 am  Investigating Stakeholder Perception of Aquatic Plant Management on a Large Southeastern Reservoir (Student Presentation)
Kevin L. Fouts and Susan B. Wilde
University of Georgia, Warnell School of Forestry and Natural Resources, Athens, GA

General Session and Student Presentations

9:40 am  Maintenance Control of *Hydrilla verticillata* in Florida’s State Managed Waters with Aquathol
Jeremy G. Slade¹ and Michael D. Netherland²
¹United Phosphorus, Incorporated, Gainesville, FL
²U.S. Army Corps of Engineers, Engineer Research and Development Center, Gainesville, FL

10:00 am  Effect of Substrate Carbon on Topramezone Phytotoxicity to St. Augustinegrass (Student Presentation)
Carl J. Della Torre III¹, William T. Haller², and Lyn A. Gettys¹
¹University of Florida, Institute of Food and Agricultural Sciences, Ft. Lauderdale Research and Education Center, Davie, FL
²University of Florida, Institute of Food and Agricultural Sciences, Center for Aquatic and Invasive Plants, Gainesville, FL

10:20 am  Refreshment Break (Oglethorpe Ballroom)

10:40 am  The Turion Ecology of *Stratiotes aloides* (Student Presentation)
Nicholas A. Weissflog¹ and Eric Sager²
¹Trent University, Ecological Restoration, Peterborough, Ontario, Canada
²Fleming College, Ecological Restoration, Lindsay, Ontario, Canada

11:00 am  New Aquatic Invasive Species Management: The Effect of Treatment Type and Application Timing on *Stratiotes aloides* in Ontario (Student Presentation)
Robert A. Canning¹ and Eric Sager²
¹Trent University, Environmental and Life Sciences, Peterborough, Ontario, Canada
²Fleming College, Ecological Restoration, Lindsay, Ontario, Canada

11:20 am  Aquatic Invasive Plant Management: Using Modeling to Predict Future Invasions and Prioritize Existing Infestations (Student Presentation)
Elizabeth A. Edgerton¹, Michael P. Masser¹, William Grant¹, Allen Knutson², and Lucas Gregory³
¹Texas A&M University, Department of Wildlife and Fisheries Sciences, College Station, TX
²Texas A&M University, Department of Entomology, College Station, TX
³Texas Water Resources Institute, College Station, TX

11:40 am  Field Research of Early-Season Whole Lake Herbicide Strategies for Control of Hybrid Eurasian Water Milfoil
Eddie J. Heath¹, Tim Hoyman¹, Michelle Nault², and John Skogerboe³
¹Onterra, LLC, De Pere, WI
²Wisconsin Department of Natural Resources, Madison, WI
³U.S. Army Corps of Engineers, Engineer Research and Development Center, Madison, WI

12:00 pm  Lunch on your own
Session II – General Session and Student Presentations
1:30 pm - 4:20 pm
Madison Ballroom

Moderator: Dr. Vernon Vandiver, Jr. - APMS Board of Directors
Professor Emeritus, University of Florida, Gainesville, FL

1:30 pm  Hydrilla Biological Control: Optimizing the Hydrilla Midge Tip Miner (Student Presentation)
Julie A. Baniszewski, Emma N. Weeks, and James P. Cuda
University of Florida, Department of Entomology, Gainesville, FL

1:50 pm  Linking Plant Biology and Management Information to Improve Control of Hydrilla
Michael D. Netherland¹ and Dean Jones²
¹ APMS President, Gainesville, FL
² University of Florida, Lake Alfred, FL

2:10 pm  Attempted Revegetation in Two Piedmont Reservoirs: Establishment Success and Response of Fish and Macroinvertebrates (Student Presentation)
Justin J. Nawrocki
North Carolina State University, Department of Crop Science, Raleigh, NC

2:30 pm  Alien Invasive Aquatic Weeds in Botswana - Historical Perspective and their Successful Control
Chandrasekara N. Kurugundla
Water Affairs, Maun, Botswana

2:50 pm  Refreshment Break (Oglethorpe Ballroom)

3:20 pm  Potential for Herbicide Resistance Evolution in Hybrid Watermilfoil (Student Presentation)
Lindsey-Ann L. Schulte and Ryan A. Thum
Grand Valley State University, Robert B. Annis Water Resources Institute, Muskegon, MI

3:40 pm  Managing Eurasian Watermilfoil in the Lower Clark Fork River System, Montana
John D. Madsen¹, Kurt D. Getsinger², Gray Turnage³
¹ U. S. Department of Agriculture, Agricultural Research Service, Exotic and Invasive Weed Research Unit, Davis, CA
² U.S. Army Corps of Engineers, Engineer Research and Development Center, Vicksburg, MS
³ Mississippi State University, Geosystems Research Institute, Mississippi State, MS

4:00 pm  Benefits of Incorporating Genetic Identification of Watermilfoils into Aquatic Vegetation Mapping (Student Presentation)
Syndell Parks¹ and Ryan A. Thum²
¹ Grand Valley State University, Department of Biology, Muskegon, MI
² Grand Valley State University, Robert B. Annis Water Resources Institute, Muskegon, MI

4:20 pm  APMS Annual Business Meeting (Madison Ballroom)

6:00 pm  Poster Session and Reception (Oglethorpe Ballroom)

9:00 pm  Historic Haunts Tour - Meet in Hotel Lobby at 8:45 pm - Limit 40
Poster Session
6:00 pm - 7:30 pm
Oglethorpe Ballroom

Assessment of Six Indicators for Algal Cell Viability (Student Presentation)
Alyssa J. Calomeni and John H. Rodgers
Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC

Three Year Summary of Flumioxazin Applications to Delavan Lake, WI
Jason Fausey
Nufarm Americas, Fremont, OH

Sago Pondweed (Stuckenia pectinatus) and Horned Pondweed (Zannichellia palustris) Control with Endothall Formulations in Greenhouse Flowing Water Mesocosms (Student Presentation)
Kallie C. Kessler and Scott J. Nissen
Colorado State University, Department of Bioagricultural Sciences and Pest Management, Fort Collins, CO

Alligator Weed [Alternanthera philoxeroides (Mart.) Griseb.] is Spreading in Kashmir Himalayas (Student Presentation)
Ather Masoodi and Fareed A. Khan
Department of Botany, Aligarh Muslim University, Aligarh, India

Ecological Effects of Water-Willow (Justicia americana) on Aquatic Invertebrate Species (Student Presentation)
Christopher M. Mynatt and Mark A. Webb
1Texas A&M University, Department of Wildlife and Fisheries Sciences, College Station, TX
2Texas Parks and Wildlife Department, Inland Fisheries Division, Snook, TX

Control of Phragmites communis using Reduced Rate Glyphosate Applications and TopFilm Adjuvant
Jonathan R. Newman and Manuel A. Duenas-Lopez
Centre for Ecology and Hydrology, Wallingford, England

Evaluation of Water Willow (Justicia americana) Use by Reservoir Fishes (Student Presentation)
Ryan C. O’Hanlon, Christopher M. Mynatt, and Mark A. Webb
1Texas A&M University, Department of Wildlife and Fisheries Sciences, College Station, TX
2Texas Parks and Wildlife Department, Inland Fisheries Division, Snook, TX

Toxicity of Copper Sulfate and Copper-ethanolamine to Microcystis aeruginosa and Pseudokirchneriella subcapitata at Different Initial Cell Densities
Kuo-Pei Tsai, Kyla J. Iwinski, and John H. Rodgers
Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC

An Assessment of Aquatic Invasive Plants in the Illinois River: Water Hyacinth Surveillance, Mapping, Persistence, and Potential Seed Dispersal (Student Presentation)
Jay A. VonBank, Andrew F. Casper, Heath M. Hagy, and Aaron P. Yetter
Illinois Natural History Survey, Illinois River Biological Station and Forbes Biological Station Prairie Research Institute, University of Illinois, Havana, IL

Factors Influencing Sprouting of Crested Floating Heart Ramets
Leif N. Willey and Michael D. Netherland
1Aquatic Systems, Incorporated, Lauderhill, FL
2U.S. Army Corps of Engineers, Engineer Research and Development Center, Gainesville, FL

Establishment of Native Aquatic Vegetation in Conjunction with an Integrated Pest Management Program (Student Presentation)
Haley N. Woelfel, Michael P. Masser, and Mark A. Webb
1Texas A&M University, Department of Wildlife and Fisheries Sciences, College Station, TX
2Texas Parks and Wildlife Department, Inland Fisheries Division, Snook, TX
Tuesday, July 15

Tuesday’s Agenda-at-a-Glance

7:00 am - 8:00 am Continental Breakfast (Oglethorpe Ballroom)
7:00 am - 5:00 pm Exhibits Open (Oglethorpe Ballroom)
7:00 am - 5:00 pm Posters Open (Oglethorpe Ballroom)
7:30 am - 5:00 pm Registration (Pre-function area between Oglethorpe and Madison Ballrooms)
8:00 am - 12:10 pm Session III – General Session and Student Presentations (Madison Ballroom)
10:00 am - 10:30 am Refreshment Break (Oglethorpe Ballroom)
12:10 pm - 1:40 pm Lunch on your own
12:10 pm - 1:40 pm APMS Past Presidents’ Luncheon (Monterey Room - 2nd Floor)
12:10 pm - 1:40 pm APMS Regional Chapters Presidents’ Luncheon (Telefair Room - 2nd Floor)
1:40 pm - 4:50 pm Session IV – MidSouth APMS Special Session (Madison Ballroom)
3:00 pm - 3:30 pm Refreshment Break (Oglethorpe Ballroom)
5:00 pm - 6:00 pm MSAPMS Board of Directors Meeting (Lafayette Room)
6:00 pm - 7:00 pm Awards Reception (Savannah River Queen)
7:00 pm - 10:00 pm Awards Banquet (Savannah River Queen)

Session III – General Session and Student Presentations

8:00 am - 12:10 pm
Madison Ballroom

Moderator: Dr. Joe Vassios - APMS Board of Directors
United Phosphorus, Incorporated, Rocklin, CA

8:00 am  Effects of Salinity on Submerged Aquatic Vegetation’s Growth and Abundance in North Carolina and Assessment of a SONAR’s Accuracy to Measure Vegetation (Student Presentation)  
Audrey Pleva and Joseph Luczkovich  
East Carolina University, Greenville, NC

8:20 am  Ready to Start Mapping Lakes and Reservoirs? An Introduction to the Capabilities and Requirements of Various Sonar Systems  
Bob Bahn and Susan B. Wilde  
University of Georgia, Warnell School of Forestry and Natural Resources, Athens, GA

8:40 am  The use of Optical Properties for Distinguishing between Invasive Aquatic Species with Applications towards Remote Sensing (Student Presentation)  
Caroline Wylie¹, Celine Gueguen¹, and Eric Sager²  
¹Trent University, Environmental and Life Sciences, Peterborough, Ontario, Canada  
²Fleming College, Ecological Restoration, Lindsay, Ontario, Canada

9:00 am  Bioaccumulation of Total and Methyl Mercury in Water Hyacinth (Eichhornia crassipes) from a South Carolina Coastal Plain River  
Jane L. Guentzel and Julie W. Murphy  
Coastal Carolina University, Department of Marine Science, Conway, SC

9:20 am  Efficacy Studies for the Control of Parrot Feather, Alligator Weed, Creeping Water Primrose and Monocoeicous Hydrilla Utilizing Topramezone (Student Presentation)  
Erika J. Haug and Rob J. Richardson  
North Carolina State University, Department of Crop Science, Raleigh, NC
9:40 am  Providing Context for Invasive Aquatic Weed Control in Diverse Ecosystems: Sensitivity of Freshwater Molluscs to Hydrilla-Targeting Herbicides
   W. Gregory Cope¹, Jennifer M. Archambault¹, Christine M. Bergeron¹, Rob Richardson², Mark A. Heilman³, J. Edward Corey⁴, Michael D. Netherland⁵, and Ryan J. Heise⁶
   ¹North Carolina State University, Department of Applied Ecology, Raleigh, NC
   ²North Carolina State University, Department of Crop Science, Raleigh, NC
   ³SePRO Corporation, Carmel, IN
   ⁴North Carolina Division of Parks and Recreation, Raleigh, NC
   ⁵U.S. Army Corps of Engineers, Engineer Research and Development Center, Gainesville, FL
   ⁶North Carolina Wildlife Resources Commission, Raleigh, NC

10:00 am  Refreshment Break (Oglethorpe Ballroom)

10:30 am  Blowing Bubbles: Long Range Control of Algae Using Ultrasound
   Jonathan R. Newman
   Centre for Ecology and Hydrology, Wallingford, England

10:50 am  Predictive Management of Mat-forming Algae
   West M. Bishop and Ben E. Willis
   SePRO Corporation, Whitakers, NC

11:10 am  Post-treatment Fate of Copper Applied as Algaecides and Herbicides
   John H. Rodgers, Alyssa J. Calomeni, and Kyla J. Iwinski
   Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC

11:30 am  Responses of Microcystis aeruginosa and Pseudokirchneriella subcapitata when Exposed to an Anionic Polyacrylamide Blend (Student Presentation)
   Kyla J. Iwinski
   Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC

11:50 am  Research Updates for Concentration Exposure Timings Using Endothall: Elodea, Chara, and Filamentous Algae
   Cody J. Gray¹, Joseph Vassios², and Gerald Adrian³
   ¹United Phosphorus, Incorporated, Peyton, CO
   ²United Phosphorus, Incorporated, Rocklin, CA
   ³United Phosphorus, Incorporated, King of Prussia, PA

12:10 pm  Lunch on your own

Session IV – MidSouth Aquatic Plant Management Special Session
1:40 pm - 4:50 pm
Madison Ballroom

Moderator: Josh Yerby - MidSouth APMS President-Elect
Alabama Power Company, Environmental Affairs, Guntersville, AL

1:40 pm  Evaluation of Algaecide Applications for Treatment of Lyngbya wollei in Lay Lake (Student Presentation)
   Alyssa J. Calomeni and John H. Rodgers
   Clemson University, department of Wildlife and Fisheries Biology, Clemson, SC

2:00 pm  Enhancement of Targeted Algal Management
   John H. Rodgers, Alyssa J. Calomeni, and Kyla J. Iwinski
   Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC
2:20 pm  Evaluation of New Herbicide Combinations for Managing Giant Salvinia in Louisiana  
Christopher R. Mudge¹, Alexander J. Perret², and Jonathan R. Winslow²  
¹U.S. Army Corps of Engineers, Engineer Research and Development Center, Baton Rouge, LA  
²Louisiana Department of Wildlife and Fisheries, Inland Fisheries, Baton Rouge, LA

2:40 pm  Managing Floating and Emergent Plants with Stingray® (Carfentrazone-ethyl)  
Ben E. Willis¹, Todd C. Horton¹, Mark Heilman³, and West M. Bishop¹  
¹SePRO Corporation, Whitakers, NC  
²SePRO Corporation, Anderson, SC  
³SePRO Corporation, Carmel, IN

3:00 pm  Refreshment Break (Oglethorpe Ballroom)

3:30 pm  Phenology of Potamogeton crispus in the southeastern U.S.  
Gray Turnage¹, John D. Madsen², and Ryan M. Wersal³  
¹Mississippi State University, Geosystems Research Institute, Mississippi State, MS  
²U.S. Department of Agriculture, Agricultural Research Service, Exotic and Invasive Weed Research Unit, Davis, CA  
³Applied Biochemists (A Lonza Business), Alpharetta, GA

3:50 pm  Managing Hydrilla in Drinking Water Reservoirs  
Ken S. Presley  
Henry County Water Authority, Locust Grove, GA

4:10 pm  Rapid Response to Monoecious Hydrilla in Lake Waccamaw  
Steve T. Hoyle  
North Carolina State University, Raleigh, NC

4:30 pm  Adjourn

4:45 pm  MSAPMS Board of Directors Meeting (Lafayette Room)

6:00 pm  APMS Awards Reception (Savannah River Queen)

7:00 pm  APMS Awards Banquet (Savannah River Queen)
Wednesday, July 16

Wednesday’s Agenda-at-a-Glance

7:00 am - 8:00 am Continental Breakfast (*Oglethorpe Ballroom*)
7:00 am - 10:30 am Exhibits Open (*Oglethorpe Ballroom*)
7:00 am - 10:30 am Posters Open (*Oglethorpe Ballroom*)
7:30 am - 12:00 pm Registration (*Pre-function area between Oglethorpe and Madison Ballrooms*)
8:00 am - 12:00 pm Session V – Public Outreach Special Session and General Presentations (*Madison Ballroom*)
10:00 am - 10:30 am Refreshment Break (*Oglethorpe Ballroom*)
10:30 am - 12:00 pm Poster and Exhibit Breakdown (*Oglethorpe Ballroom*)
12:30 pm - 5:00 pm APMS Board of Directors Meeting (*Harborview Room*)

Session V – Public Outreach Special Session and General Presentations
8:00 am - 12:00 pm
*Madison Ballroom*

**Moderator:** Dr. Rob Richardson - APMS Vice President
North Carolina State University, Raleigh, NC

8:00 am  **Connecting Management Professionals, Researchers and the Public Sector to Aquatic Plant Management Information**
Karen Brown
University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL

8:20 am  **Invasive Plant Education: Invading a Classroom near You!**
Katie Walters
University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL

8:40 am  **Benefits of Controlling Nuisance Aquatic Plants and Algae in the United States**
Kurt D. Getsinger¹, Eric Dibble², John H. Rodgers³, and David Spencer⁴
¹U.S. Army Corps of Engineers, Engineer Research and Development Center, Vicksburg, MS
²Mississippi State University, Department of Wildlife, Fisheries and Aquaculture, Mississippi State, MS
³Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC
⁴U.S. Department of Agriculture, Agricultural Research Service, Exotic and Invasive Weed Research Unit, Davis, CA

9:00 am  **APMS Herbicide Resistance Management PowerPoint Lessons**
Jeffrey D. Schardt
Florida Fish and Wildlife Conservation Commission, Tallahassee, FL

9:20 am  **Evaluating Efficacy of Aquatic Herbicides on Rotala (Rotala rotundifolia)**
Lyn A. Gettys¹, Carl J. Della Torre III¹, and William T. Haller²
¹University of Florida, Institute of Food and Agricultural Sciences, Ft. Lauderdale Research and Education Center, Davie, FL
²University of Florida, Institute of Food and Agricultural Sciences, Center for Aquatic and Invasive Plants, Gainesville, FL

9:40 am  **Evaluation of Auxin Herbicide Applications Following Pretreatment with Select Algaecides for Control of Eurasian Watermilfoil in Long Lake, Iosco County, MI**
Ryan M. Wersal¹, Rich DeJonghe², Jeff Knox³, and Bill Ratajczyk²
¹Applied Biochemists (A Lonza Business), Alpharetta, GA
²Applied Biochemists (A Lonza Business), Germantown, WI
³Aquatic Services, Incorporated, Goodrich, MI

10:00 am **Refreshment Break** (*Oglethorpe Ballroom*)
10:30 am  Aquatic Weed and Algae Control in Irrigation Canals Using Endothall
Joseph Vassios1, Cody J. Gray2, and Gerald Adrian3
1United Phosphorus, Incorporated, Rocklin, CA
2United Phosphorus, Incorporated, Peyton, CO
3United Phosphorus, Incorporated, King of Prussia, PA

10:50 am  Sonar® Aquatic Herbicide: Technical Overview of Past and Present Research, Operational Use Pattern Development and Future Outlook
Mark Heilman
SePRO Corporation, Carmel, IN

11:10 am  APMS Regional Chapters: An Update on Key Initiatives within Each Region
Rob Richardson, Moderator
North Carolina State University, Raleigh, NC

11:45 am  Highlights from the 54th Annual Meeting
Cody Gray
United Phosphorus, Incorporated, Peyton, CO

12:00 pm  Adjourn 54th Annual Meeting

12:30 pm  APMS Board of Directors Meeting (Harborview Room)

NEXT YEAR

55th Annual Meeting
Hilton Myrtle Beach Oceanfront Resort
Myrtle Beach, South Carolina
July 12-15, 2015