# MidSouth Aquatic Plant Management Society 36th Annual Meeting



# **PROGRAM**

September 11-13, 2017 Hilton Birmingham Perimeter Park Birmingham, Alabama

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Bob Gunkel (2008)

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The MidSouth Aquatic Plant Management Society appreciates the following companies for exhibiting their products and services.

Airmax Alligare, LLC Aqua Services, Inc. AquaMaster Fountains & Aerators Aquatic Control, Inc. BioSafe Systems **Brewer International Crop Production Services** Cygnet Enterprises, Inc. EasyPro Lake and Pond Products Kasco Marine Keycolour Lonza **Nufarm Americas** SePRO Corporation Syngenta UPI WinField United

**Past Presidents and Meeting Sites** 

1982David BayneGuntersville, Alabama1983David BayneBainbridge, Georgia1984Terry GoldsbyMobile, Alabama1985Joe ZolczynskiJackson, Mississippi1986David FranksGulf Shores, Alabama1987Joe StephensonDecatur, Alabama1988Leon BatesGulf Shores, Alabama1989Raymond CooperMontgomery, Alabama1990Barry SmithEufaula, Alabama1991Mike EubanksAuburn, Alabama1992Randell GoodmanGuntersville, Alabama1993Earl BurnsGulf Shores, Alabama1994Fred HardersBirmingham, Alabama1995Scott LankfordSheffield, Alabama1996David WebbGulf Shores, Alabama1997Stan CookVicksburg, Mississippi1998Lewis DecellGuntersville, Alabama2000Mark TowEufaula, Alabama2001Ken WeathersColumbus, Mississippi2002David FranksGulf Shores, Alabama2003Tom BroadwellAuburn, Alabama2004Eric BarkemeyerMobile, Alabama2005Joe JerniganRobinsonville, Mississippi2006Craig AguillardOrange Beach, Alabama2007Bob GunkelNashville, Tennessee2008Bryan GoldsbyMobile, Alabama2010Jason CarleeGuntersville, Alabama2011Harry KnightGuntersville, Alabama2012Troy GoldsbyMobil	Past Presidents and Meeting Sites					
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	2015	Josh Yerby	Mobile, Alabama			
2017 Ryan Wersal Birmingham, Alabama	2016	Alex Perret				
	2017	Ryan Wersal	Birmingham, Alabama			

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#### **Contributors**

Airmax Alabama Power Company Helena Chemical Company Keycolour

# **Meeting Agenda**

## Monday, September 11th

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

1:00 pm - 4:00 pm
3:00 pm - 5:00 pm
1:00 pm - 5:00 pm
1:00 pm - 5:00 pm
Exhibits Setup (Cahaba 2-4)

5:00 pm - 5:00 pm Exhibits Setup (Cahaba 2-4 5:00 pm - 7:00 pm Welcoming Social (Shelby)

#### Dinner on your own

# Tuesday, September 12th – MidSouth APMS Aquatic Plant Workshop & General Sessions

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

7:00 am - 8:00 am Breakfast (Cahaba 2-4) 8:00 am - 5:00 pm Meeting Registration (Pre-Function Foyer) 8:00 am - 5:00 pm Exhibits Open (Cahaba 2-4) 8:00 am - 12:15 pm Midsouth APMS Aquatic Plant Workshop (Inverness) 10:00 am - 10:15 am Refreshment Break (Cahaba 2-4) 12:15 pm - 1:30 pm Lunch (On Your Own) 1:30 pm - 3:20 pm 3:20 pm - 3:40 pm General Session I (*Inverness*) Refreshment Break (Cahaba 2-4) 3:40 pm - 5:00 pm General Session II (Inverness)

Workshop Concludes and Lunch on your own

#### Dinner on your own

12:15 pm

# 2017 MidSouth Aquatic Plant Management Society Aquatic Plant Workshop - Inverness Room

Moderator:	Christopher Mudge, US Army ERDC, Baton Rouge, Louisiana
8:00 am	Pesticide Safety Basics – Get Refreshed on Pesticide Safety John Nabors Alabama Extension, Birmingham, Alabama
9:00 am	Biological Control for the Management of Invasive Aquatic Plants Julie Nachtrieb US Army ERDC, Lewisville, Texas
10:00 am	Refreshment Break (Cahaba 2-4)
10:15 am	Herbicides for Use in Aquatic Environments Gray Turnage Geosystems Research Institute, Mississippi State University, Starkville, Mississippi
10:45 am	Adaptive Water Resource Management: Techniques for Problematic Algae Tyler D. Geer Clemson University, Department of Forestry and Environmental Conservation, Clemson, South Carolina
11:15 am	Identification of Exotic and Other Highly Problematic Aquatic Weeds in the MidSouth R. Graves Lovell Alabama Department of Conservation and Natural Resources, Auburn, Alabama

General Session I (Inverness)

Moderator: Jeremy Slade, UPI, Alachua, Florida

1:30 pm **Opening Remarks and Announcements** 

Jeremy Slade

UPI, Alachua, Florida

1:40 pm **Presidential Address** 

Ryan Wersal

Lonza Water Treatment, Alpharetta, Georgia

1:50 pm Watts Bar Ecology and Fishery Council (WBEFC) – Building a Successful Stakeholder Organization

**Timothy Joseph** 

Roane County Commission- Stakeholder Organization, Rockwood, Tennessee

2:20 pm The Importance of Stakeholder Education and Outreach - A Cornerstone in Aquatic Plant

Management Brett Hartis

Tennessee Valley Authority, Guntersville, Alabama

2:50 pm Aquatic Plant Management: An Applicator's Perspective

**Troy Goldsby** 

AquaServices, Inc., Guntersville, Alabama

3:20 pm **Refreshment Break** (Cahaba 2-4)

General Session II (Inverness)

Moderator: Craig Aguillard, Winfield United, Ville Platte, Louisiana

3:40 pm **APMS Update** 

John Rodgers

Clemson University, Department of Forestry and Environmental Conservation, Clemson, South Carolina

4:00 pm **AERF Update & Applicator Professionalism** 

**Carlton Layne** 

Aquatic Ecosystem Restoration Foundation, Marietta, Georgia

4:20 pm Aquatic Herbicides and Winter: Recipe for Successful Giant Salvinia (Salvinia molesta) Control?

**Christopher Mudge** 

US Army ERDC, Louisiana State University, Baton Rouge, Louisiana

4:40 pm An Update on Alabama Power's Aquatic Plant Management Program

Josh Yerby

Environmental Affairs, Alabama Power Company, Calera, Alabama

5:00 pm General Sessions Conclude - Announcements

Dinner on your Own

### Wednesday, September 13th - General Sessions

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

8:00 am 8:00 am 8:00 am 10:00 am 10:20 am 12:00 pm 1:30 pm 3:00 pm 3:20 pm 5:00 pm 5:30 pm		3:00 pm 3:20 pm 5:00 pm 5:30 pm 6:00 pm	Breakfast (Cahaba 2-4) Meeting Registration (Pre-Function Foyer) Exhibits Open (Cahaba 2-4) Session III (Inverness) Refreshment Break (Cahaba 2-4) Session IV (Inverness) Lunch (On Your Own) Session V (Inverness) Refreshment Break (Cahaba 2-4) Session VI (Inverness) Business Meeting (Inverness) Board of Directors Meeting (Inverness) Board (Shalby)
5:30 pm	-	-	<b>3</b>
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#### General Session III (Inverness)

**Moderator:** Gray Turnage- Geosystems Research Institute, Mississippi State University, Starkville, Mississippi

8:00 am Classifying Common Aquatic Plants Using Hyperspectral Data to Identify Optimal Spectral Bands for

Species Mapping Using a Small Unmanned Aerial System – A Case Study

Cary McCraine, Sathiskumar Samiappan, Gray Turnage, Lee Hathcock, Haibo Yao, Russel Kincaid, Robert

Moorhead and Steve Ashby (Student Presentation)

Geosystems Research Institute, Mississippi State University, Starkville, Mississippi

8:20 am Managing Giant Salvinia in Temperate Climates: Is Long-Term Biological Control Feasible?

Lori Moshman and Rodrigo Diaz (Student Presentation)

LSU AgCenter, LSU Department of Entomology, Baton Rouge, Louisiana

8:40 am Utilizing Remote Sensing Technology for Monitoring Chemically Managed Salvinia molesta

**Populations** 

Bradley Sartain and Christopher Mudge (Student Presentation)

Louisiana State University, School of Plant, Environmental and Soil Sciences, Baton Rouge, Louisiana

9:00 am Survey of Select Mississippi Waterbodies for the Presence of Invasive and Nuisance Aquatic Plant

**Species** 

Cory Shoemaker (Student Presentation)

Geosystems Research Institute, Mississippi State University, Starkville, Mississippi

9:20 am Phylogenetic Diversity of Invasive Macrophytes in North American Lentic Systems

**Chandler White** and Jonathan Fleming (*Student Presentation*)

University of North Alabama, Department of Geography, Florence, Alabama

9:40 am Spatial-Temporal Analysis of Hydrilla (Hydrilla verticillata) Infestation in Pickwick Reservoir

Alabama

Randee Miller and Jonathan Fleming (Student Presentation)

University of North Alabama, Department of Geography, Florence, Alabama

10:00 am **Refreshment Break** (Cahaba 2-4)

**General Session IV** (*Inverness*)

Moderator: Warren Wagner- Environmental Affairs, Georgia Power Company, Atlanta, Georgia

10:20 am Forecasting Distribution of Hydrilla Under Current and Future Climate Scenarios

Kevin Cornelius and Jonathan Fleming (Student Presentation)

University of North Alabama, Department of Geography, Florence, Alabama

10:40 am Predicting Field Responses of Taste and Odor Producing Algae in a Southeastern U.S. Reservoir to a

Sodium Carbonate Peroxyhydrate Algaecide Using a Laboratory Exposure-Response Model

Tyler Geer (Student Presentation)

Clemson University, Department of Forestry and Environmental Conservation

11:00 am Managing Nitellopsis obtusa (Starry Stonewort) in the Lake Koronis, MN: A Pilot Project Using an

**Integrated Approach** 

John Rodgers

Clemson University, Department of Forestry and Environmental Conservation, Clemson, South Carolina

11:20 am Flumioxazin as a Potential Pre-emergent Treatment for Submersed Aquatic Weeds in Arkansas

Baitfish Ponds George Selden

Aquaculture/Fisheries Center, University of Arkansas at Pine Bluff, Pine Bluff, Arkansas

11:40 am Management of Nuisance Exotic Aquatic Plant Species in Georgia Power Company's Reservoir:

A Review of Survey Methodologies and Treatment Regimes

Warren Wagner

Environmental Affairs, Georgia Power Company, Atlanta, Georgia

12:00 pm Lunch on your own

General Session V (Inverness)

Moderator: Ryan Wersal- Lonza Water Treatment, Alpharetta, Georgia

1:30 pm Industry Sponsor/Exhibitor Updates

2:15 pm By The Numbers: Aquatic Plant/Algae Control Client Information Requests for Small

Impoundments in Kentucky

**Forrest Wynne** 

Kentucky State University, Extension Specialist for Aquaculture, Paducah, Kentucky

2:30 pm Phenology of Curlyleaf Pondweed (*Potamogeton crispus*) in the Southeastern US: a Two Year

Mesocosm Study Gray Turnage

Geosystems Research Institute, Mississippi State University, Starkville, Mississippi

2:45 pm Small Pond Management Using Harpoon® Liquid and Granular Aquatic Herbicides in the

MidSouth Gray Turnage Starkville, Mississippi

3:00 pm **Refreshment Break** (Cahaba 2-4)

General Session VI (Inverness)

Moderator: Bradley Sartain- LSU, School of Plant, Environmental and Soil Sciences, Baton Rouge, Louisiana

3:20 pm What Role Do Aquatic Applicators Play in Preserving and Improving Our Freshwater Supply

**Scott Jackson** 

Syngenta, Royal Palm Beach, Florida

3:40 pm Translocation of <sup>14</sup>C-Endothall in Eurasian Watermilfoil (Myriophyllum spicatum), Two Hydrilla

Biotypes (Hydrilla verticillata), Curlyleaf pondweed (Potamogeton crispus) and Sago pondweed

(Stuckenia pectinata)

Mirella Ortiz, Scott Nissen and Cody Gray; Jeremy Slade

UPI, Peyton, Colorado

4:00 pm PROCELLACOR<sup>TM</sup>: A Future Tool for Invasive Aquatic Weed Management

**Ben Willis** 

# SePRO Corporation, Whitakers, North Carolina

4:20 pm	AMP® Activator a New Adjuvant for Aquatic Plant Management Ryan Wersal Lonza Water Treatment, Alpharetta, Georgia
4:40 pm	Targeting the "Bad Players": Effective Cyanobacteria Management with Liquid Activated Peroxygen Algaecide/Cyanobactericide Tom Warmuth, Hugh Dalton and Tom McNabb BioSafe Systems LLC, Winston Salem, North Carolina
5:00 pm	Annual Business Meeting (Inverness)
5:30 pm	Adjourn
5:30 pm	Board of Directors Meeting (Inverness)
6:30 pm	Banquet (Shelby)



NEXT YEAR 37<sup>th</sup> Annual Meeting Stay Tuned!