

APMS PRE-FINAL AGENDA – 57th ANNUAL MEETING – July 16-19, 2017

Events-at-a-Glance

Sunday:

- APMS Board of Directors Meeting
- Exhibits Setup
- Poster Setup
- Registration
- Presidents' Reception

Monday:

- General Meeting Opens
- Guest Tour
- Student Affairs Luncheon
- Regional Chapters Presidents' Luncheon
- RISE / AERF Luncheon
- APMS Annual Business Meeting
- Poster Session & Reception

Tuesday:

- General Session - Student Presentations
- APMS Past Presidents' Luncheon
- Women of Aquatics Luncheon
- Duck Race Fundraiser
- Awards Reception
- Awards Banquet - APMS Awards Presentations

Wednesday:

- Special Sessions on Algae and Aquatic Plant Management in Florida
- General Meeting Adjourns - 3:45 p.m.
- APMS Board of Directors Meeting

Thursday:

- Student Tour

Pre-Final Agenda

Sunday, July 16

Sunday's Agenda-at-a-Glance

7:30 am	-	4:00 pm	APMS Board of Directors Meeting (<i>Coquina F</i>)
12:00 pm	-	5:00 pm	Exhibits Setup (<i>Coquina DE</i>)
12:00 pm	-	5:00 pm	Poster Setup (<i>Coquina DE</i>)
1:00 pm	-	5:00 pm	Registration (<i>Coquina Pre-function North</i>)
7:00 pm	-	9:00 pm	President's Reception (<i>Mai Tai (next to Hilton)</i>)

Monday, July 17

Monday's Agenda-at-a-Glance

7:00 am	-	8:00 am	Continental Breakfast (<i>Coquina DE</i>)
7:00 am	-	7:30 pm	Exhibits Open (<i>Coquina DE</i>)
7:00 am	-	7:30 pm	Posters Open (<i>Coquina DE</i>)
7:30 am	-	5:00 pm	Registration (<i>Coquina Pre-function North</i>)
8:00 am	-	11:30 am	Session I – Keynote, General Session, Student Presentations (<i>Coquina FGH</i>)
9:00 am	-	4:00 pm	Guest Tour (<i>Guests meet at bottom of North Tower Ramp on A1A at 8:45 am</i>)
9:40 am	-	10:10 am	Refreshment Break (<i>Coquina DE</i>)
11:30 am	-	1:00 pm	Lunch on your own
11:30 am	-	1:00 pm	APMS Student Affairs Luncheon (<i>Coquina A</i>)
11:30 am	-	1:00 pm	Regional Chapters Presidents' Luncheon (<i>Coquina B</i>)
11:30 am	-	1:00 pm	RISE / AERF Luncheon (<i>Coquina C</i>)
1:00 pm	-	4:20 pm	Session II - General Session and Student Presentations (<i>Coquina FGH</i>)
2:20 pm	-	3:10 pm	Refreshment Break (<i>Coquina DE</i>)
4:20 pm	-	5:00 pm	APMS Annual Business Meeting (<i>Coquina FGH</i>)
6:00 pm	-	7:30 pm	Poster Session and Reception (<i>Coquina DE</i>)

Session I – Keynote, General Session, Student Presentations

8:00 am - 11:30 am

Coquina FGH

Moderator: John Rodgers - APMS President Elect, Program Committee Chair

Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC

8:00 am	Call to Order - Announcements John H. Rodgers, Jr. <i>Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC</i>
8:05 am	Presidential Address John Madsen <i>U.S. Department of Agriculture, Agriculture Research Service, Exotic and Invasive Weeds Research, Davis, CA</i>
8:20am	Aquatic Plant and Algae Management and Endangered Species: Stresses or Stressors, Risks or Benefits? Bernalyn D. McGaughey <i>Compliance Services International, Lakewood, WA</i>
8:40 am	AERF in a “Post-WOTUS” World Carlton Layne <i>Aquatic Ecosystem Restoration Foundation, Marietta, GA</i>
9:00 am	Washington Update Lee Van Wychen <i>Weed Science Society of America, Alexandria, VA</i>
9:20 am	Sustaining the Aquatics SME Registration Partnership with USEPA Kurt D. Getsinger <i>U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS</i>
9:40 am	Refreshment Break (<i>Coquina DE</i>)
10:10 am	APMS Strategic Planning Mark Heilman <i>SePRO Corporation, Carmel, IN</i>

- 10:30 am **Evaluation of Cold Tolerance of Three Louisiana Populations of *Cyrtobagous salviniae***
(Student Presentation)
Allie Cozad¹, Rodrigo Diaz², and Christopher R. Mudge³
¹Louisiana State University, School of Plant, Environmental and Soil Sciences, Natchitoches, LA
²Louisiana State University, AgCenter, Department of Entomology, Baton Rouge, LA
³U.S. Army Engineer Research and Development Center, Environmental Laboratory, Baton Rouge, LA
- 10:50 am **Ecological Effects of Aquatic Invasive Macrophytes: a Meta-analysis of their Effects on Native Plants, Macroinvertebrates and Fish**
Kaitlin A. Kinney and Lauren Pintor
Ohio State University, School of Environment and Natural Resources, Columbus, OH
- 11:10 am **Mesocosm and Field Evaluation of Eurasian and Hybrid Watermilfoil Response to Endothall**
(Student Presentation)
Paula Guastello and Ryan A. Thum
Montana State University, Department of Plant Sciences and Plant Pathology, Bozeman, MT
- 11:30 am **Morning Wrap-up and Announcements - Lunch on your own**

Session II – General Session and Student Presentations

1:00 pm – 4:20 pm

Coquina FGH

Moderator: Dick Pinagel, APMS Director

Aquatic Weed Control, Incorporated, Holly, MI

- 1:00 pm **Density Dependence of Copper Exposures to *Microcystis aeruginosa*: Implications for Microcystin-LR Release (Student Presentation)**
Ciera M. Kinley¹, Tyler Geer¹, Kyla Iwinski², Maas Hendrikse¹, and John Rodgers, Jr.¹
¹Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC
²Applied Polymer Systems, Woodstock, GA
- 1:20 pm **An Evaluation of Past and Present Aeration Designs: An Ohio Case Study**
Patrick M. Goodwin
Vertex Water Features, Pompano Beach, FL
- 1:40 pm **Predicting Responses of Taste and Odor Producing Algae in a Southeastern U.S. Reservoir to a Sodium Carbonate Peroxyhydrate Algacide Using a Laboratory Exposure-Response Model (Student Presentation)**
Tyler Geer¹, Alyssa J. Calomeni², Ciera M. Kinley¹, Kyla Iwinski³, and John Rodgers, Jr.¹
¹Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC
²Clemson University, School of Agricultural, Forest and Environmental Sciences, Clemson, SC
³Applied Polymer Systems, Woodstock, GA
- 2:00 pm **Biosecurity to Restoration**
Deborah E. Hofstra and Paul D. Champion
National Institute of Water and Atmospheric Research, Freshwater and Estuaries Centre, Hamilton, New Zealand
- 2:20 pm **Refreshment Break (Coquina DE)**
- 3:10 pm **Platinum Level Sponsor Presentation – Lake and Wetland Management, Incorporated**
- 3:20 pm **Platinum Level Sponsor Presentation – UPI**
- 3:30 pm **Gold Level Sponsor Presentation – Nufarm Americas, Incorporated**

- 3:35 pm **Gold Level Sponsor Presentation – SePRO Corporation**
- 3:40 pm **Gold Level Sponsor Presentation – Syngenta**
- 3:45 pm **APMS Regional Chapters: An Update on Key Initiatives within Each Region**
 Western South Carolina Midwest Florida
 Texas Northeast MidSouth
- 4:20 pm **APMS Annual Business Meeting (Coquina FGH)**
- 5:00 pm **Adjourn General Session**
- 6:00 pm **Poster Session and Reception (Coquina DE)**

Poster Session

6:00 pm - 7:30 pm

Coquina DE

Do Cogongrass Accessions Across Florida Respond Differently to Herbicide Treatment?

Stephen F. Enloe and Kate Le Gros

University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL

Crested Floating Heart (*Nymphoides cristata*) Response to Endothall and Florpyrauxifen-benzyl Concentration Exposure Times (Student Presentation)

Kara Foley¹, Erika J. Haug², and Robert J. Richardson¹

¹*North Carolina State University, Crop and Soil Science, Raleigh, NC*

²*North Carolina State University, Fish and Wildlife Program, Raleigh, NC*

Tracking Submersed Plant Population Dynamics Over Time

Andrew Howell, **Tyler Harris**, and Robert J. Richardson

North Carolina State University, Crop and Soil Science, Raleigh, NC

Evaluation of Potential Control Measures for Established *Arundo donax* (Student Presentation)

Andrew Howell, Steve T. Hoyle, and Robert J. Richardson

North Carolina State University, Crop and Soil Science, Raleigh, NC

Impact of Food Deprivation on Hydrilla Tip-Mining Midge Survival and Subsequent Development

Adriana O. Mitchell, James P. Cuda, and Emma N. Weeks

University of Florida, Department of Entomology and Nematology, Gainesville, FL

Evaluating Management Practices to Conserve Native Water Willow while Controlling Hydrilla (Student Presentation)

Eryn E. Molloy¹, Erika J. Haug², and Robert J. Richardson¹

¹*North Carolina State University, Crop and Soil Science, Raleigh, NC*

²*North Carolina State University, Fish and Wildlife Program, Raleigh, NC*

Row Cover Enhances Biological Control for Winter Management of Giant Salvinia (Student Presentation)

Lori Moshman and Rodrigo Diaz

Louisiana State University, AgCenter, Department of Entomology, Baton Rouge, LA

Investigating the Efficacy of Treating Desiccated *Lynghya* in a Drawn Down Pond

Stephanie R. Nawrocki¹, Justin J. Nawrocki², and Tom M. Warmuth³, and Robert J. Richardson¹

¹*North Carolina State University, Crop and Soil Science, Raleigh, NC*

²*UPI, King of Prussia, PA*

³*Biosafe Systems, East Hartford, CT*

Efficacy of Endothal (Aquathol® K) and Endothal+2,4-D (Chinook®) for Curlyleaf Pondweed (*Potamogeton crispus*) Control Under Simulated Fall Conditions (Student Presentation)

Mirella Ortiz¹, Jéssica Scarpin¹, Scott J. Nissen¹, and Cody J. Gray²

¹Colorado State University, Fort Collins, CO

²UPI, Colorado Springs, CO

A New Experience for Macrophyte Community Management in Santana Reservoir, Brazil

Robinson A. Pitelli¹, Robinson L. Pitelli², Rinaldo Rocha³, Jorge Jabob, Jr.⁴, Monicke O. Vieira⁵, and Wilson R. Cervera Jr.⁶

¹University of State of Sao Paulo, Plant Protection, Jaboticabal, Brazil

²Ecosafe SS Ltda., Jaboticabal, Brazil

³Light Energia S.A., Pirai, Brazil

⁴Universidade Federal do Rio de Janeiro, Rio De Janeiro, Brazil

⁵Pirai, Brazil

⁶Universidade Estadual Paulista, Jaboticabal, Brazil

Ludwigia sedoides Chemical Control under Greenhouse Conditions

Robinson L. Pitelli¹, Claudinei Cruz², Robinson A. Pitelli³, and Jorge Jabob, Jr.⁴

¹Ecosafe SS Ltda., Jaboticabal, Brazil

²Fundação Educacional de Barretos, Barretos, Brazil

³University of State of Sao Paulo, Plant Protection, Jaboticabal, Brazil

⁴Universidade Federal do Rio de Janeiro, Rio De Janeiro, Brazil

Chemical Control of *Phragmites australis* under Climate Change Conditions in Florida (Student Presentation)

Candice M. Prince, Gregory E. MacDonald, and John E. Erickson

University of Florida, Agronomy Department, Gainesville, FL

Lynghya Distribution and Abundance in Selected North Carolina Waterbodies (Student Presentation)

Shannon Regan¹, Steve T. Hoyle², and Robert J. Richardson²

¹North Carolina State University, Fish and Wildlife Program, Raleigh, NC

²North Carolina State University, Crop and Soil Science, Raleigh, NC

Effects of Water Hyacinth and Tanner Grass Soil Incorporations on Physical and Chemical Properties of Degraded Soils

Rinaldo Rocha¹, Robinson A. Pitelli², Robinson L. Pitelli³, and Jorge Jabob, Jr.⁴

¹Light Energia S.A., Pirai, Brazil

²University of State of Sao Paulo, Plant Protection, Jaboticabal, Brazil

³Ecosafe SS Ltda., Jaboticabal, Brazil

⁴Universidade Federal do Rio de Janeiro, Rio De Janeiro, Brazil

The Effects and Implications of Chemical and Biological Control on Waterhyacinth IPM with Stressors to Biocontrol Agents (*Neochetina* spp. and *Megamelus scutellaris*) (Student Presentation)

Samantha Sardes, Lyn Gettys, Ian Markovich, and Kyle Thayer

University of Florida, Institute of Food and Agricultural Sciences, Florida Research and Education Center, Davie, FL

Effects of Aquatic Macrophyte Biomass on Soil Nutrient Concentration

Monicke O. Vieira¹, Jorge Jabob, Jr.², Robinson L. Pitelli³, Robinson A. Pitelli⁴, and Rinaldo Rocha⁵

¹Pirai, Brazil

²University of State of Sao Paulo, Plant Protection, Jaboticabal, Brazil

³Ecosafe SS Ltda., Jaboticabal, Brazil

⁴Universidade Federal do Rio de Janeiro, Rio De Janeiro, Brazil

⁵Light Energia S.A., Pirai, Brazil

Tuesday, July 18

Tuesday's Agenda-at-a-Glance

- 7:00 am - 8:00 am Continental Breakfast (*Coquina DE*)
7:00 am - 4:30 pm Exhibits Open (*Coquina DE*)
7:00 am - 4:30 pm Posters Open (*Coquina DE*)
7:30 am - 4:30 pm Registration (*Coquina Pre-function North*)
8:00 am - 11:30 am Session III – General Session and Student Presentations (*Coquina FGH*)
9:40 am - 10:10 am Refreshment Break (*Coquina DE*)
11:30 am - 1:00 pm Lunch on your own
11:30 am - 1:00 pm APMS Past Presidents' Luncheon (*Coquina A*)
11:30 am - 1:00 pm Women in Aquatics Luncheon (*Coquina B*)
1:00 pm - 4:30 pm Session IV – General Session and Student Presentations (*Coquina FGH*)
2:40 pm - 3:10 pm Refreshment Break (*Coquina DE*)
5:00 pm - 6:00 pm Duck Race Fundraiser (*Pool Deck – 5th Floor, North Tower*)
6:00 pm - 7:00 pm Awards Reception (*Coquina FGH Pre-Function*)
7:00 pm - 10:00 pm Awards Banquet (*Coquina FGH*)
8:30 pm - 10:00 pm APMS Awards Presentations – Raffle (*Coquina FGH*)

Session III – General Session and Student Presentations

8:00 am - 11:30 am

Coquina FGH

Moderator: Craig Aguillard, APMS Vice President

Winfield, Ville Platte, LA

- 8:00 am **Translocation of ¹⁴C-Endothall in Eurasian Watermilfoil, Curlyleaf Pondweed, and Two Hydrilla Biotypes (*Student Presentation*)**
Mirella Ortiz¹, Scott J. Nissen¹, and Cody J. Gray²
¹*Colorado State University, Fort Collins, CO*
²*UPI, Colorado Springs, CO*
- 8:20 am **AMP[®] Activator, a New Adjuvant for Aquatic Plant Management**
Ryan M. Wersal¹ and Bill Ratajczyk²
¹*Lonza, Specialty Ingredients - Surface Water, Alpharetta, GA*
²*Lonza, Water Treatment, Reedsville, WI*
- 8:40 pm **Evaluations of Factors Influencing Growth and Response to Herbicides by the Native Grass *Paspalidium geminatum* (*Student Presentation*)**
Jens Beets¹, Dean Jones², Carl Della Torre¹, and Michael D. Netherland³
¹*University of Florida, Agronomy Department, Gainesville, FL*
²*University of Florida, Center for Aquatic and Invasive Plants, Lake Alfred, FL*
³*U.S. Army Engineer Research Development Center, Environmental Laboratory, Gainesville, FL*
- 9:00 am **Flumioxazin as a Potential Pre-emergent Treatment for Submersed Aquatic Weeds**
George L. Selden
University of Arkansas at Pine Bluff, Aquaculture/Fisheries Center, Jonesboro, AR
- 9:20 am **Monoecious Hydrilla: Growth in the Absence of Photosynthesis (*Student Presentation*)**
Erika J. Haug¹, Steve T. Hoyle², Robert J. Richardson², and J. T. Harris²
¹*North Carolina State University, Fish and Wildlife Program, Raleigh, NC*
²*North Carolina State University, Crop and Soil Science, Raleigh, NC*
- 9:40 am **Refreshment Break (*Coquina DE*)**

- 10:10 am **Floating Growth Morphology and Efficacy of Tank-mix Herbicides on Creeping Water Primrose (*Ludwigia hexapetala* and *Ludwigia grandiflora*) in Florida (Student Presentation)**
Afsari Banu and Stephen F. Enloe
University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL
- 10:30 am **Aquatic Herbicides and Winter: Recipe for Successful Giant Salvinia (*Salvinia molesta*) Control?**
Christopher R. Mudge¹ and Bradley T. Sartain²
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Baton Rouge, LA*
²*Louisiana State University, School of Plant, Environmental and Soil Sciences, Baton Rouge, LA*
- 10:50 am **Relationship Among Aqueous Copper Half-lives and Responses of Fathead Minnow (*Pimephales promelas*) to a Series of Copper Sulfate Pentahydrate Concentrations (Student Presentation)**
Alyssa J. Calomeni¹, Ciera M. Kinley², Tyler Geer², Kyla Iwinski³, Maas Hendrikse², and John Rodgers, Jr.²
¹*Clemson University, School of Agricultural, Forest, and Environmental Sciences, Clemson, SC*
²*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*
³*Applied Polymer Systems, Woodstock, GA*
- 11:10 am **Introduction and Spread of a Cryptic Water Chestnut Species in the Northeastern U.S.**
Ryan A. Thum¹, Lynde Dodd², Nancy Rybicki³, Nathan E. Harms⁴, and Kadiera Ingram³
¹*Montana State University, Department of Plant Sciences and Plant Pathology, Bozeman, MT*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*
³*U.S. Geological Survey, Reston, VA*
⁴*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
- 11:30 am **Morning Wrap-up and Announcements - Lunch on your own**

Session IV – General Session and Student Presentations

1:00 pm - 4:30 pm

Coquina FGH

Moderator: Ryan Thum, APMS Director

Montana State University, Bozeman, MT

- 1:00 pm **The Integration of Triploid Grass Carp and Herbicides for Monoecious Hydrilla Control on Two North Carolina Reservoirs (Student Presentation)**
Alejandro J. Reyes¹, Steve T. Hoyle¹, Robert J. Richardson¹, and Mark Fowlkes²
¹*North Carolina State University, Crop and Soil Science, Raleigh, NC*
²*North Carolina Wildlife Resources Commission, Raleigh, NC*
- 1:20 pm **Anionic PAM use During Drainage and Pond Maintenance**
Eddie Snell
Applied Polymer Systems, Incorporated, Minneola, FL
- 1:40 pm **Utilizing Remote Sensing Technology for Monitoring Chemically Managed *Salvinia molesta* Populations (Student Presentation)**
Bradley T. Sartain¹ and Christopher R. Mudge²
¹*Louisiana State University, School of Plant, Environmental and Soil Sciences, Baton Rouge, LA*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Baton Rouge, LA*
- 2:00 pm **How do We Identify High-risk Genotypes for Adaptive Management of Eurasian and Hybrid Watermilfoil?**
Ryan A. Thum
Montana State University, Department of Plant Sciences and Plant Pathology, Bozeman, MT
- 2:20 pm **Effects of Temperature during Dormancy on Viability of Monoecious *Hydrilla verticillata* Propagules**
Amy L. Henry, J. T. Harris, and **Robert J. Richardson**
North Carolina State University, Crop and Soil Science, Raleigh, NC

- 2:40 pm **Refreshment Break** (*Coquina DE*)
- 3:10 pm **The Phenology of Flowering Rush (*Butomus umbellatus*) in the Western U.S.**
John D. Madsen¹ and Kurt D. Getsinger²
¹*U.S. Department of Agriculture, Agriculture Research Service, Exotic and Invasive Weeds Research, Davis, CA*
²*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
- 3:30 pm **Evaluating the Efficacy of Granular Copper and Triclopyr Alone and in Combination for Control of Flowering Rush**
Gray Turnage¹, Ryan M. Wersal², and John D. Madsen³
¹*Mississippi State University, Geosystems Research Institute, Starkville, MS*
²*Lonza, Specialty Ingredients - Surface Water, Alpharetta, GA*
³*U.S. Department of Agriculture, Agriculture Research Service, Exotic and Invasive Weeds Research, Davis, CA*
- 3:50 pm **Mosquito Larva Control at Aquatic Plant Sites in the Santee Cooper Lake System, South Carolina**
John C. Grant
Santee Cooper Power, Environmental Resources, Moncks Corner, SC
- 4:10 pm **Woolly Frogs Mouth (*Philydrum lanuginosum*) Found in Pender County, NC: A First Find of this Invasive Plant in the U.S.**
Bridget Lassiter¹, Steve T. Hoyle², and Robert J. Richardson²
¹*North Carolina Department of Agriculture and Consumer Services, Raleigh, NC*
²*North Carolina State University, Crop and Soil Science, Raleigh, NC*
- 4:30 pm **Afternoon Wrap-up and Announcements**
- 5:00 pm **Duck Race Fundraiser** (*Pool Deck – 5th Floor, North Tower*)
- 6:00 pm **Awards Reception** (*Coquina FGH Pre-function North*)
- 7:00 pm **Awards Banquet** (*Coquina FGH*)

Wednesday, July 19

Wednesday's Agenda-at-a-Glance

- 7:00 am - 8:00 am Continental Breakfast (*Coquina DE*)
- 7:00 am - 2:20 pm Exhibits Open (*Coquina DE*)
- 7:00 am - 2:20 pm Posters Open (*Coquina DE*)
- 7:30 am - 2:20 pm Registration (*Coquina Pre-function North*)
- 8:00 am - 12:00 pm Session V – Special Session on Algae and General Session (*Coquina FGH*)
- 9:40 am - 10:00 am Refreshment Break (*Coquina DE*)
- 12:00 pm - 1:00 pm Lunch on your own
- 1:00 pm - 3:40 pm Session VI – Special Session on Evolving Management Strategies in Florida (*Coquina FGH*)
- 2:20 pm - 2:40 pm Refreshment Break (*Coquina DE*)
- 2:40 pm - 3:40 pm Poster and Exhibit Breakdown (*Coquina DE*)
- 3:40 pm Wrap-up and Adjourn 57th Annual Meeting
- 4:00 pm - 7:00 pm APMS Board of Directors Meeting (*Coquina A*)

Session V – Special Session on Algae and General Session

8:00 am - 12:00 pm
Coquina FGH

Moderator: Jason Ferrell, APMS Editor

University of Florida, Agronomy Department, Gainesville, FL

- 8:00 am **Managing *Nitellopsis obtusa* (Starry Stonewort) in Lake Koronis, MN: A Pilot Project Using an Integrated Approach**
John Rodgers, Jr.¹ and Kevin Farnum²
¹*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*
²*Koronis Lake Association Board, Delano, MN*
- 8:20 am **Investigating Invasive Aquatic Plant and Toxic Cyanobacteria Management to Improve Wildlife Habitat for Threatened and Endangered Species**
Susan B. Wilde¹, Brigette Haram², Kenneth D. Jones³, and Michael D. Netherland⁴
¹*University of Georgia, Warnell School of Forestry and Natural Resources, Athens, GA*
²*University of Georgia, Athens, GA*
³*University of Florida, Center for Aquatic and Invasive Plants, Lake Alfred, FL*
⁴*U.S. Army Engineer Research Development Center, Environmental Laboratory, Gainesville, FL*
- 8:40 am **A Risk-based Decision Matrix for Managing Noxious Algae**
West M. Bishop
SePRO Corporation, Whitakers, NC
- 9:00 am **Algal Turf Scrubbers for Phycoremediation**
Dail Laughinghouse
University of Florida, Agronomy Department, Florida Research and Education Center, Davie, FL
- 9:20 am **Targeting the "Bad Players": Effective Cyanobacteria Management with Liquid Activated Peroxygen algacide/cyanobacteriacide**
Tom Warmuth¹, Hugh Dalton², and Tom McNabb³
¹*BioSafe Systems LLC, Winston Salem, NC*
²*Santa Cruz Water Laboratory, Santa Cruz, CA*
³*Clean Lakes, Incorporated, Martinez, CA*
- 9:40 am **Refreshment Break (Coquina DE)**
- 10:00 am **Intervening in Major Algal "Blooms" in Florida**
John Rodgers, Jr.¹, Tyler Geer¹, Alyssa Calomeni², Kyla Iwinski³, Ciera Kinley¹
¹*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*
²*Clemson University, School of Agricultural, Forest and Environmental Sciences, Clemson, SC*
³*Applied Polymer Systems, Woodstock, GA*
- 10:20 am **Revegetation of Giant Bulrush (*Schoenoplectus californicus*) on Lake Tohopekaliga, Florida**
Craig T. Mallison¹ and Tim Coughlin²
¹*Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Lakeland, FL*
²*Florida Fish and Wildlife Conservation Commission, Aquatic Habitat Conservation and Restoration Section, Kissimmee, FL*
- 10:40 am **Introduction Pathways for Florida's Dirty Dozen Aquatic Weeds**
Lyn A. Gettys
University of Florida, Fort Lauderdale Research and Education Center, Davie, FL
- 11:00 am **Identification of *Ludwigia hexapetala* and *Ludwigia grandiflora* from Creeping Water Primrose in Florida**
Colette C. Jacono, Afsari Banu, and Stephen F. Enloe
University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL
- 11:20 am **Florida Invasive Plant Education Initiative**
Dehlia Albrecht

University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL

11:40 am **Do Daylength and Desiccation Affect Sprouting of Crested Floatingheart Ramets?**

Lyn A. Gettys and Ian J. Markovich

University of Florida, Research and Education Center, Davie, FL

12:00 pm **Morning Wrap-up and Announcements - Lunch on your own**

Session VI – Special Session on Evolving Management Strategies in Florida

1:00 pm - 3:40 pm

Coquina FGH

Moderator: Brett Hartis, APMS Director

Tennessee Valley Authority, Guntersville, AL

1:00 pm **Florida's Adaptive Aquatic Plant Management Program**

Matt V. Phillips

Florida Fish and Wildlife Conservation Commission, Invasive Plant Management Section, Tallahassee, FL

1:20 pm **Screening and Development of New Aquatic Herbicides, 2002-2013**

William T. Haller¹, Michael D. Netherland², and Lyn A. Gettys³

¹*University of Florida, Center for Aquatic and Invasive Plants, Gainesville FL*

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

³*University of Florida, Fort Lauderdale Research and Education Center, Davie, FL*

1:40 pm **Can Reduced Rates of Glyphosate or Imazapyr Improve Torpedograss Control with Graminicides?**

Stephen F. Enloe¹ and Michael D. Netherland²

¹*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*

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

2:00 pm **Technology Transfer from Ten Years of Monitoring Large-Scale Operational Treatments for Control of Aquatic Invasive Plants in Florida**

Michael D. Netherland¹, Kenneth D. Jones², Matt V. Phillips³, Jeffrey D. Schardt⁴

¹*U.S. Army Engineer Research Development Center, Environmental Laboratory, Gainesville, FL*

²*University of Florida, Center for Aquatic and Invasive Plants, Lake Alfred, FL*

³*Florida Fish and Wildlife Conservation Commission, Invasive Plant Management Section, Tallahassee, FL*

⁴*Florida Fish and Wildlife Conservation Commission (retired), Thomasville, GA*

2:20 pm **Refreshment Break (Coquina DE)**

2:40 pm **Mesocosm Evaluations of PROCELLACOR, a Novel Herbicide Technology for Aquatic Plant Management**

Mark A. Heilman¹, Michael D. Netherland², Jens Beets³, Robert J. Richardson⁴, Erika J. Haug⁵, Ben Willis⁶, and Chetta Owens⁷

¹*SePRO Corporation, Carmel, IN*

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

³*University of Florida, Agronomy Department, Gainesville, FL*

⁴*North Carolina State University, Crop and Soil Science, Raleigh, NC*

⁵*North Carolina State University, Fish and Wildlife Program, Raleigh, NC*

⁶*SePRO Corporation, Whitakers, NC*

⁷*U.S. Army Engineer Research Development Center, Environmental Laboratory, Lewisville, TX*

3:00 pm **Technology for Mapping and Managing Florida's Aquatic Vegetation**

Alex Dew and Matt V. Phillips

Florida Fish and Wildlife Conservation Commission, Invasive Plant Management Section, Tallahassee, FL

- 3:20 pm **The Impact of Sequential Applications of Sethoxydim for Torpedograss Control in Aquatic Settings**
Stephen F. Enloe¹ and Michael D. Netherland²
¹University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL
²U.S. Army Engineer Research Development Center, Environmental Laboratory, Gainesville, FL
- 3:40 pm **Wrap-up and Adjourn 57th Annual Meeting**
- 4:00 pm **APMS Board of Directors Meeting** (*Coquina A*)