

Aquatic Plant Management Society, Inc.
58th Annual Meeting
July 15-19, 2018
Hyatt Regency Hotel
Buffalo, New York

Draft Planning Program

Events-at-a-Glance

Sunday, July 15:

APMS Board of Directors Meeting
Exhibits and Poster Setup
Registration
Student Meet-and-Greet
Presidents' Reception

Monday, July 16:

Meeting Opens – 8:00 a.m.
Keynote, General Session I, and Student Presentations
Student Affairs Luncheon
Regional Chapters Presidents' Luncheon
General Session II, Student Presentations, and Chapter Updates
APMS Annual Business Meeting
Poster Session & Reception

Tuesday, July 17:

General Session III and Student Presentations
APMS Past Presidents' Luncheon
Women of Aquatics Luncheon
General Session IV and Student Presentations
Awards Reception
Awards Banquet - APMS Awards Presentations

Wednesday, July 18:

General Session V
General Meeting Adjourns – 12:20 p.m.
APMS Board of Directors Meeting

Thursday, July 19:

Student Tour

Agenda

Sunday, July 15

Sunday's Agenda-at-a-Glance

- 7:30 am - 5:00 pm APMS Board of Directors Meeting (*Executive Board Room*)
- 12:00 pm - 5:00 pm Exhibits and Posters Setup (*Grand Ballroom ABCD*)
- 1:00 pm - 5:00 pm Registration (*Foyer - Grand Ballroom ABCD*)
- 6:00 pm - 7:00 pm Student Meet-and-Greet (*Regency Ballroom A*)
- 7:00 pm - 9:00 pm President's Reception (*Regency Ballroom ABC*)

Monday, July 16

Monday's Agenda-at-a-Glance

- 7:00 am - 8:00 am Continental Breakfast (*Grand Ballroom ABCD*)
- 7:00 am - 7:30 pm Exhibits and Posters Open (*Grand Ballroom ABCD*)
- 7:30 am - 5:00 pm Registration (*Foyer - Grand Ballroom ABCD*)
- 8:00 am - 11:30 am Session I – Keynote, General Session (*Grand Ballroom EFG*)
- 9:20 am - 9:50 am Refreshment Break (*Grand Ballroom ABCD*)
- 11:30 am - 1:00 pm Lunch on your own
- 11:30 am - 1:00 pm APMS Student Affairs Luncheon (*Ellicott Room*)
- 11:30 am - 1:00 pm Regional Chapters Presidents' Luncheon (*Franklin Room*)
- 1:00 pm - 4:25 pm Session II - General Session, Student Presentations, Chapter Updates (*Grand Ballroom EFG*)
- 2:40 pm - 3:10 pm Refreshment Break (*Grand Ballroom ABCD*)
- 4:25 pm - 5:00 pm APMS Annual Business Meeting (*Grand Ballroom EFG*)
- 6:00 pm - 7:30 pm Poster Session and Reception (*Grand Ballroom ABCD*)

Session I – Keynote, General Session

8:00 am - 11:30 am
Grand Ballroom EFG

- 8:00 am **Call to Order - Announcements**
Craig Aguillard – Program Committee Chair
Winfield United, Ville Platte, LA
- 8:05 am **Presidential Address**
John H. Rodgers, Jr.
Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC
- 8:15 am **Knowledge to Action for Management of Aquatic Invasive Species**
David Lodge
Cornell University, Atkinson Center for a Sustainable Future, Ithaca, NY
- 8:40 am **Aquatic Plant Control Program Past and Present**
Jeremy Crossland
U.S. Army Corps of Engineers, Land Use and Natural Resources, Washington, DC
- 9:00 am **Circling the Wagons: Implementing New York State's Aquatic Invasive Species Management Plan**
Catherine A. McGlynn
New York State Department of Conservation, Albany, NY

- 9:20 am **Refreshment Break** (*Grand Ballroom ABCD*)
- 9:50 am **Status of Aquatic Plant Management in the Northeast U.S.**
Meg Modley
Lake Champlain Basin Program, and NEAPMS Chapter President, Grand Isle, VT
- 10:10 am **Hydrilla Management in the Croton River (Westchester County, NY): Results from Year 1 of a 5-Year Control Program**
Chris J. Doyle
SOLitude Lake Management, Washington, NJ
- 10:30 am **Evaluating ProcellaCOR for Control of Five Target Aquatic Weeds in New Zealand**
 Andrew Howell¹, **Deborah E. Hofstra**², Robert J. Richardson¹, Mark A. Heilman³, and Paul Champion²
¹*North Carolina State University, Crop and Soil Sciences, Raleigh, NC*
²*National Institute of Water and Atmospheric Research, Freshwater and Estuaries Centre, Hamilton, NZ*
³*SePRO Corporation, Carmel, IN*
- 10:50 am **Absorption and Translocation of Florpyrauxifen-benzyl (Procellacor™) in Selected Aquatic Plant Species**
Erika J. Haug¹, Mark A. Heilman², Travis Gannon¹, and Robert J. Richardson¹
¹*North Carolina State University, Crop and Soil Sciences, Raleigh, NC*
²*SePRO Corporation, Carmel, IN*
- 11:10 am **Invasive Aquatic Plants in Connecticut, USA: The State of the State**
Greg Bugbee
Connecticut Agricultural Experiment Station, Department of Environmental Sciences, New Haven, CT
- 11:30 am **Morning Wrap-up and Announcements - Lunch on your own**

Session II – General Session, Student Presentations, Chapter Updates

1:00 pm – 4:25 pm

Grand Ballroom EFG

- 1:00 pm **Nozzle and Speed Selection for Site-Specific Herbicide Applications Using an Unmanned Aerial Sprayer (Student Presentation)**
Joseph Hunter¹, Travis Gannon¹, Robert J. Richardson¹, Joe Neal², and Ramon Leon¹
¹*North Carolina State University, Crop and Soil Sciences, Raleigh, NC*
²*North Carolina State University, Horticulture, Raleigh, NC*
- 1:20 pm **Incorporating Advanced Robotics into Aquatic Plant Management: Development of an Autonomous Aquatic Application System**
Robert J. Richardson¹, Greg Buckner², Scott Ferguson², Staphan Jernigan², Steve T. Hoyle¹, and Justin J. Nawrocki³
¹*North Carolina State University, Crop and Soil Sciences, Raleigh, NC*
²*North Carolina State University, Mechanical and Aerospace Engineering, Raleigh, NC*
³*UPI Incorporated, Holly Springs, NC*
- 1:40 pm **Efficacy of Twelve Non-aquatic Herbicides for Managing Giant Salvinia (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 **Field Demonstration of Improvements to Salvinia Weevil Establishment and Giant Salvinia Management as a Result of Nitrogen Amendments**
Julie G. Nachtrieb¹, William Finkbeiner², and Wesley Maddox³
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX*
²*Louisiana Department of Wildlife and Fisheries, Inland Fisheries Aquatic Plant Division, Monroe, LA*
³*Louisiana Department of Wildlife and Fisheries, Inland Fisheries Aquatic Plant Division, Forest Hill, LA*
- 2:20 pm **Mechanical Control of Flowering Rush (*Butomus umbellatus* L.) (Student Presentation)**
Lee G. Turnage¹, John D. Byrd², Ryan M. Wersal³, and John D. Madsen⁴
¹*Mississippi State University, Geosystems Research Institute, Starkville, MS*
²*Mississippi State University, Plant and Soil Sciences, Starkville, MS*
³*Lonza, Alpharetta, GA*
⁴*U.S. Department of Agriculture, Agricultural Research Service, Exotic and Invasive Weed Research Unit, Davis, CA*
- 2:40 pm **Refreshment Break** (*Grand Ballroom ABCD*)
- 3:10 pm **Chemical Control of Two Grass Species Under Different Salinity Regimes (Student Presentation)**
Candice Prince and Gregory MacDonald
University of Florida, Agronomy Department, Gainesville, FL
- 3:30 pm **Field Evaluation of Graminicides on *Hymenachne amplexicaulis*, West Indian Marsh Grass: Control and Non-target Effects (Student Presentation)**
Stephen Enloe and **Kaitlyn Quincy**
University of Florida, Agronomy Department, Center for Aquatic and Invasive Plants, Gainesville, FL
- 3:50 pm **APMS Regional Chapters: An Update on Key Initiatives within Each Region**
- | | | | |
|---------|----------------|----------|---------|
| Western | South Carolina | Midwest | Florida |
| Texas | Northeast | MidSouth | |
- 4:25 pm **Adjourn Session II**
- 4:25 pm **APMS Annual Business Meeting** (*Grand Ballroom EFG*)
- 5:00 pm **Adjourn Annual Business Meeting**
- 6:00 pm **Poster Session and Reception** (*Grand Ballroom ABCD*)

Poster Session

6:00 pm - 7:30 pm

Grand Ballroom ABCD

Control of Algal Growth on Irrigated Greenhouse Surfaces Using Commercial Algaecides (Student Presentation)

David E. Berthold¹, Ariel Elazar², Forrest Lefler², Chris Marble³, and Haywood D. Laughinghouse²

¹University of Florida, Fort Lauderdale Research and Education Center, Miami, FL

²University of Florida, Fort Lauderdale Research and Education Center, Davie, FL

³University of Florida, Mid-Florida Research and Education Center, Apopka, FL

Management of Problematic Native Aquatic Vegetation to Enhance Multi-user Benefits in Southeastern Waterbodies (Student Presentation)

Kennedy Calhoun¹, Gary N. Ervin², and Lee G. Turnage¹

¹Mississippi State University, Geosystems Research Institute Starkville, MS

²Mississippi State University, Department of Biological Sciences, Starkville, MS

A Cryptic Introduction of *Trapa* in the Northeastern United States

Greg M. Chorak and Ryan A. Thum

Montana State University, Plant Science Plant Pathology, Bozeman, MT

Investigations into Possible Mechanisms of Selectivity of Endothall Herbicide in Submersed Aquatic Macrophytes (Student Presentation)

Michael W. Durham and Gregory MacDonald

University of Florida, Agronomy Department, Gainesville, FL

Aeration of a Shallow Eutrophic Lake: What to Expect

Patrick M. Goodwin

State University of New York Oneonta, Jacksonville, Beach, FL

Monoecious *Hydrilla verticillata* Tuber Respiration

Erika J. Haug, Tyler J. Harris, and Robert J. Richardson

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

Potential Spread of *Hydrilla (Hydrilla verticillata)* in the Great Lakes Basin (Student Presentation)

Kristen M. Hebebrand and Jonathan M. Bossenbroek

The University of Toledo, Environmental Sciences, Toledo Ohio

Utilization of Dual Transducers Improves Hydroacoustic Survey Efficiency (Student Presentation)

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

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

Mapping Waterhyacinth (*Eichhornia crassipes*) Drift and Dispersal in the San Joaquin Delta Using GPS Drogues

John Miskella and **John D. Madsen**

U.S. Department of Agriculture, Agricultural Research Service, Invasive Species and Pollinator Health Research Unit, Davis, CA

Implementing Monitoring Techniques of *Hydrilla verticillata* in the New Jersey Delaware and Raritan Canal (Student Presentation)

Emily R. Mayer¹ and Amanda Mahaney²

¹Solitude Lake Management, (University of Florida, School of Forestry and Resource Conservation), Hackettstown, NJ

²Solitude Lake Management, Shrewsbury, MA

New Hampshire Variable Leaf Milfoil (*Myriophyllum heterophyllum*) Response to Florpyrauxifen-benzyl (Procellacor™) Concentration Exposure Times (Student Presentation)

Eryn Molloy, Kara J. Foley, Erika J. Haug, and Robert J. Richardson
North Carolina State University, Crop and Soil Sciences, Raleigh, NC

Field Evaluations of Herbicide Efficacy on Invasive *Scleria* Species (*S. lacustris* and *S. microcarpa*) in Florida (Student Presentation)

Alexandra L. Onisko¹, Gregory MacDonald², Candice Prince², Ellen Allen³, and LeRoy Rodgers³

¹*University of Florida, Agronomy Department, Jensen Beach, FL*

²*University of Florida, Agronomy Department, Gainesville, FL*

³*South Florida Water Management District, West Palm Beach, FL*

A Workshop Summary: Prioritizing Research for Management of *Nitellopsis obtusa* (starry stonewort)

Kaytee L. Pokrzywinski¹, Kurt D. Getsinger¹, and Bradley Steckart²

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

²*Washington and Waukesha Counties, Land and Water Conservation Division, West Bend, WI*

Evaluation of a Foliar Endothall Use Pattern for Controlling Crested Floating Heart (*Nymphoides cristata*) and Giant Salvinia (*Salvinia molesta*) (Student Presentation)

William J. Prevost¹, Christopher R. Mudge², and Michael D. Netherland³

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*

³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL*

Efficacy of Waterhyacinth Weevils (*Neochetina* sp.) and the Herbicides Glyphosate, Diquat, and Carfentrazone for Integrated Management of Waterhyacinth (Student Presentation)

Sam Sardes¹, Lyn Gettys¹, Stephen Enloe², William H. Kern¹, and Carey Minter-Killian³

¹*University of Florida, Fort Lauderdale Research and Education Center, Davie, FL*

²*University of Florida, Agronomy Department, Gainesville, FL*

³*University of Florida, Entomology Department, Fort Pierce, FL*

A Comparison of Filamentous Algae Herbicide Treatments in Arkansas Ponds

George L. Seldon

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

New Stocking Rates for Triploid Grass Carp (*Ctenopharyngodon idella*)

Anita Kelly, Scott Jones, and **George L. Seldon**

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

Sequential Applications of Diquat to Control Flowering Rush (*Butomus umbellatus* L.) (Student Presentation)

Lee G. Turnage¹, John D. Byrd², Ryan M. Wersal³, and John D. Madsen⁴

¹*Mississippi State University, Geosystems Research Institute, Starkville, MS*

²*Mississippi State University, Plant and Soil Sciences, Starkville, MS*

³*Lonza, Alpharetta, GA*

⁴*U.S. Department of Agriculture, Agricultural Research Service, Exotic and Invasive Weed Research Unit, Davis, CA*

Short-term Control of Cuban Bulrush (*Oxycaryum cubense*) Through Submersed Herbicide Applications

Lee G. Turnage (Student Presentation)

Mississippi State University, Geosystems Research Institute, Starkville, MS

Tuesday, July 17

Tuesday's Agenda-at-a-Glance

- 7:00 am - 8:00 am Continental Breakfast (*Grand Ballroom ABCD*)
7:00 am - 5:00 pm Exhibits and Posters Open (*Grand Ballroom ABCD*)
7:30 am - 5:00 pm Registration (*Foyer - Grand Ballroom ABCD*)
8:00 am - 11:30 am Session III – General Session and Student Presentations (*Grand Ballroom EFG*)
9:40 am - 10:10 am Refreshment Break (*Grand Ballroom ABCD*)
11:30 am - 1:00 pm Lunch on your own
11:30 am - 1:00 pm APMS Past Presidents' Luncheon (*Franklin Room*)
11:30 am - 1:00 pm Women in Aquatics Luncheon (*Ellicott Room*)
1:00 pm - 5:00 pm Session IV – General Session and Student Presentations (*Grand Ballroom EFG*)
2:40 pm - 3:10 pm Refreshment Break (*Grand Ballroom ABCD*)
6:00 pm - 7:00 pm Awards Reception (*Foyer – Grand Ballroom EFG*)
7:00 pm - 10:00 pm Awards Banquet (*Grand Ballroom EFG*)
8:30 pm - 10:00 pm APMS Awards Presentations – Raffle (*Grand Ballroom EFG*)

Session III – General Session and Student Presentations

8:00 am - 11:30 am

Grand Ballroom EFG

- 8:00 am **Harmful Algal Blooms in New York Lakes: Monitoring and Research**
Rebecca Gorney
New York Department of Environmental Conservation, Division of Water, New York, NY
- 8:20 am **Microcystin-LR Degradation Following Copper-based Algaecide Exposures (*Student Presentation*)**
Maas Hendrikse¹, Ciera Kinley¹, Kyla Iwinski-Wood², Tyler Geer¹, Andrew McQueen³, Alyssa Calomeni¹, Jenny Liang⁴, Vanessa Friesen⁴, Monique Simair⁴, and John H. Rodgers, Jr.¹
¹*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*
²*Applied Polymer Systems, Woodstock, GA*
³*U.S. Army Corps of Engineers, Vicksburg, MS*
⁴*Contango Strategies Ltd., Saskatoon, Saskatchewan, Canada*
- 8:40 pm **Desiccation Tolerance of the Invasive Alga Starry Stonewort (*Nitellopsis obtusa*)**
Carli K. Wagner¹, Wesley Glisson¹, Michael Verhoeven¹, Rafael Contreras-Rangel¹, Ranjan Muthukrishnan¹, and Daniel J. Larkin²
¹*Minnesota Aquatic Invasive Species Research Center, University of Minnesota Twin Cities, Minneapolis, MN*
²*Department of Fisheries, Wildlife and Conservation Biology, University of Minnesota Twin Cities, Minneapolis MN*
- 9:00 am **Rapid Response to an Early Detection of *Nitellopsis obtusa* (Starry Stonewort) in Lake Sylvia, Minnesota, Using a Copper-Based Algaecide (*Student Presentation*)**
Tyler Geer¹, Steve McComas², and John H. Rodgers, Jr.¹
¹*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*
²*Blue Water Science, Saint Paul, MN*
- 9:20 am **Response of Native and Invasive Submersed Aquatic Macrophytes in Three Minnesota Lakes to Carp Removal and Management**
Raymond M. Newman and Melaney A. Dunne
University of Minnesota, Fisheries, Wildlife, and Conservation Biology, Saint Paul, MN
- 9:40 am **Refreshment Break (*Grand Ballroom ABCD*)**

- 10:10 am **Comparing Efficacy of Endothall + Diquat and Endothall + Copper Formulations for *Egeria densa* Control (Student Presentation)**
Kristen R. Tanz¹, Mirella F. Ortiz¹, Scott J. Nissen¹, and Cody J. Gray²
¹Colorado State University, Bioagricultural Sciences & Pest Management, Fort Collins, CO
²UPI Incorporated, Field Development, Peyton, CO
- 10:30 am **Evaluation of Diquat (Reward) for Submersed Flowering Rush Control in Lake Pend Oreille, ID**
Kurt D. Getsinger¹, John D. Madsen², John Skogerboe³, **Steve T. Hoyle⁴**, and Robert J. Richardson⁴
¹U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
²U.S. Department of Agriculture, Agricultural Research Service, Invasive Species and Pollinator Health Research Unit, Davis, CA
³Coldwater Environmental, Minneapolis, MN
⁴North Carolina State University, Crop and Soil Sciences, Raleigh, NC
- 10:50 am **Accuracy of Visual Identification of Hybrid Watermilfoil (Student Presentation)**
Ryan A. Thum¹, Raymond M. Newman², Jeff Pashnick¹, and **Jasmine A. Eltawely³**
¹Montana State University, Plant Sciences and Plant Pathology, Bozeman, MT
²University of Minnesota, Fisheries Wildlife Conservation Biology, Saint Paul, MN
³University of Minnesota, Water Resources Science, Saint Paul, MN
- 11:10 am **Platinum Level Sponsor Presentation – UPI**
- 11:20 am **Gold Level Sponsor Presentation – SePRO Corporation**
- 11:25 am **Gold Level Sponsor Presentation – Syngenta**
- 11:30 am **Morning Wrap-up and Announcements - Lunch on your own**

Session IV – General Session and Student Presentations

1:00 pm - 5:00 pm

Grand Ballroom EFG

- 1:00 pm **Aquatic Plant Management in the U.S. Army Corps of Engineers - Wilmington District Lakes (Student Presentation)**
Kara J. Foley, Steve T. Hoyle, Tyler J. Harris, and Robert J. Richardson
North Carolina State University, Crop and Soil Sciences, Raleigh, NC
- 1:20 pm **Marsh Madness: Lessons from a Swamp (Student Presentation)**
Sonja L. Wixom¹ and Jeffrey Heilveil²
¹State University of New York, Biology Department, Cooperstown, NY
²State University of New York, Biology Department, Oneonta, NY
- 1:40 pm **Laboratory and Mesocosm Evaluation of Growth and Herbicide Response in Eurasian Watermilfoil and Four Accessions of Hybrid Watermilfoil (Student Presentation)**
Jens Beets¹ and Michael D. Netherland²
¹University of Florida, Agronomy Department, Gainesville, FL
²U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL
- 2:00 pm **Temperature as a Driver of Waterhyacinth (*Eichhornia crassipes*) Growth in the Sacramento / San Joaquin River Delta**
John D. Madsen
U.S. Department of Agriculture, Agricultural Research Service, Invasive Species and Pollinator Health Research Unit, Davis, CA

- 2:20 pm **Effects of Repeated Herbicidal Control and Environmental Conditions on Curlyleaf Pondweed**
(*Student Presentation*)
Michael R. Verhoeven¹, Daniel J. Larkin², and Raymond M. Newman²
¹*University of Minnesota, Aquatic Invasive Species Research Center, Saint Paul, MN*
²*University of Minnesota, Fisheries, Wildlife and Conservation Biology, Saint Paul, MN*
- 2:40 pm **Refreshment Break** (*Grand Ballroom ABCD*)
- 3:10 pm **Consumer Available sUAS (Small Unmanned Aircraft Systems) for Macrophyte Mapping and Management** (*Student Presentation*)
Andrew Howell and Robert J. Richardson
North Carolina State University, Crop and Soil Sciences, Raleigh, NC
- 3:30 pm **Deep in the Weeds of Aquatic Plant Management in New Jersey's Delaware and Raritan Canal**
Jon Gosselin¹, Heather Desko², Chris J. Doyle³, and Mark A. Heilman⁴
¹*SePRO Corporation, Manchester, NH*
²*New Jersey Water Supply Authority, Clinton, NJ*
³*SOLitude Lake Management, Washington, NJ*
⁴*SePRO Corporation, Carmel, IN*
- 3:50 pm **Effectiveness of Canopeo in Quantification of Photosynthetic Colors for Macrophyte Monitoring**
(*Student Presentation*)
Eric White, Andrew Howell, Steve T. Hoyle, and Robert J. Richardson
North Carolina State University, Crop and Soil Sciences, Raleigh, NC
- 4:10 pm **Colorimetric Detection of Invasive Plant Species in Environmental DNA Samples**
Paul Czechowski¹, Jose Andres¹, and David Lodge²
¹*Cornell University, Department of Ecology and Evolutionary Biology, Ithaca, NY*
²*Cornell University, Atkinson Center for a Sustainable Future, Ithaca, NY*
- 4:30 pm **Integrated Weed Management Solution for the Invasive Aquatic Weed Hydrilla**
James P. Cuda¹, Emma Weeks¹, Jennifer Gillett-Kaufman¹, Mark Hoyer², and Mark Jackson³
¹*University of Florida, Entomology and Nematology Department, Gainesville, FL*
²*University of Florida, School of Forest Resources and Conservation, Fisheries and Aquatic Sciences, Gainesville, FL*
³*U.S. Department of Agriculture, Agriculture Research Service (Retired), Peoria, IL*
- 4:50 pm **Afternoon Wrap-up and Announcements**
- 6:00 pm **Awards Reception** (*Foyer – Grand Ballroom EFG*)
- 7:00 pm **Awards Banquet** (*Grand Ballroom EFG*)

Wednesday, July 18

Wednesday's Agenda-at-a-Glance

7:00 am	-	8:00 am	Continental Breakfast (<i>Grand Ballroom ABCD</i>)
7:00 am	-	10:00 pm	Exhibits and Posters Open (<i>Grand Ballroom ABCD</i>)
7:30 am	-	12:00 pm	Registration (<i>Foyer - Grand Ballroom ABCD</i>)
8:00 am	-	12:20 pm	Session V - General Session (<i>Grand Ballroom EFG</i>)
9:40 am	-	10:00 am	Refreshment Break (<i>Grand Ballroom ABCD</i>)
12:20 pm	-	12:30 pm	Wrap-up and Adjourn 58 th Annual Meeting
12:45 pm	-	1:30 pm	APMS Board of Directors Lunch (<i>Ellicott Room</i>)
1:30 pm	-	5:00 pm	APMS Board of Directors Meeting (<i>Ellicott Room</i>)

Session V – General Session

8:00 am - 12:20 pm

Grand Ballroom EFG

8:00 am **Comparing Efficacy Between Generic vs. Proprietary Aquatic Herbicides for Control of Floating Plants**

Christopher R. Mudge¹ and Kurt D. Getsinger²

¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Baton Rouge, LA*

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

8:20 am **Lake Cayuga Monoecious Hydrilla Demonstration Project, Aurora, New York**

Dean Jones¹, Richard J. Ruby², Michael J. Greer², and Michael D. Netherland³

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

²*U.S. Army Corps of Engineers, Buffalo District, Buffalo, NY*

³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL*

8:40 am **Erie Canal Monoecious Hydrilla Demonstration Control Project, Buffalo, New York**

Richard J. Ruby¹, Michael J. Greer¹, Dean Jones², and Michael D. Netherland³

¹*U.S. Army Corps of Engineers, Buffalo District, Buffalo, NY*

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

³*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Gainesville, FL*

9:00 am **Evaluation of Herbicides and Combinations for Management of the Submersed Weeds *Hygrophila* and *Fanwort***

Lyn A. Gettys, Kyle L. Thayer, Ian J. Markovich, and Mohsen Tootoonchi

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

9:20 am **Great Lakes Hydrilla Risk Assessment**

Carl E. Mach

Ecology and Environment, Inc., Lancaster, NY

9:40 am **Refreshment Break (*Grand Ballroom ABCD*)**

10:00 am **Evaluating Long-term Effectiveness of Phoslock[®] in Water Resource Restoration**

West M. Bishop¹, Tim S. Epe², Karin Finsterle², Said Yasseri²

¹*SePRO Corporation, Whitakers, NC*

²*Institut Dr. Nowak GmbH & Co. KG – Limnology, Ottersberg, Germany*

- 10:20 am **Fate of Microcystins in Nearshore and Upland Environments: A Dredged Material Management Perspective**
Andrew D. McQueen¹, Mike W. Habberfield², Karen G. Keil², and Burton C. Suedel¹
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
²*U.S. Army Corps of Engineers, Buffalo District, Buffalo, NY*
- 10:40 am **Assessing Physiological Stress and Changes in Toxin Quota in Harmful Cyanobacteria Using Hyperspectral Imaging**
Kaytee L. Pokrzywinski¹, Steven Everman¹, Kenneth Matheson¹, Gary Blakeney¹, Shea Hammond¹, Scott Bourne¹, Cliff Morgan¹, and Molly Reif²
¹*U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS*
²*Joint Airborne Lidar Bathymetry Technical Center of Expertise, Kiln, MS*
- 11:00 am **Cyanotoxins in Drinking Water Resources: Best Management Practices and Regulations**
Brad A. Bartelme
EnviroScience, Incorporated, Cleveland, OH
- 11:20 am **Biosecurity Partnership in Action**
Marcus Girvan
Boffa Miskell Ltd., Christchurch, NZ
- 11:40 am **Mapping of Emergent and Floating-leaf Aquatic Vegetation Using a Machine Learning Process with Satellite Imagery (EcoSat): Experiences in Florida**
Ray D. Valley¹, Marcus Bindel², Hendrik Bernert², and Kevin Johnson³
¹*C-MAP USA, BioBase, Minneapolis, MN*
²*EOMAP GmbH & Co. KG, Seefeld, Germany*
³*Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Gainesville, FL*
- 12:00 pm **Koronis Lake Association Fights Starry Stonewort “To Infinity and Beyond”**
Kevin Farnum
Koronis Lake Association, Delano, MN
- 12:20 pm **Wrap-up and Adjourn 58th Annual Meeting**
John H. Rodgers, Jr.
Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC