

# APMS 2016 Pre-Final Agenda

**Meeting-at-a-Glance** (See daily Agendas-at-a-Glance below for specific event times and locations)

## Sunday:

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

## Monday:

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

## Tuesday:

- Registration
- General Session – Student Presentations
- APMS Past Presidents' Luncheon
- Women in Aquatics Luncheon
- Awards Banquet Reception
- Awards Banquet – APMS Awards Presentations

## Wednesday:

- General Session – Updates
- General Meeting Adjourns – 12:35 pm
- Student Tour
- APMS Board of Directors Meeting

## Sunday, July 17

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

7:30 am	-	5:00 pm	APMS Board of Directors Meeting ( <i>Pearl Room</i> )
12:00 pm	-	5:00 pm	Exhibits Setup ( <i>Ambassador Ballroom East</i> )
12:00 pm	-	5:00 pm	Poster Setup ( <i>Ambassador Ballroom East</i> )
1:00 pm	-	5:00 pm	Registration ( <i>Crown Foyer – Ambassador Ballrooms</i> )
6:00 pm	-	7:00 pm	Student Meet and Greet ( <i>Garden Court – Lobby Level</i> )
7:00 pm	-	9:00 pm	President's Reception ( <i>Gerald R. and Betty Ford Presidential Ballroom Room</i> )

## Monday, July 18

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

7:00 am	-	8:00 am	Continental Breakfast ( <i>Ambassador Ballroom East</i> )
7:00 am	-	5:00 pm	Exhibits Open ( <i>Ambassador Ballroom East</i> )
7:00 am	-	5:00 pm	Posters Open ( <i>Ambassador Ballroom East</i> )
7:30 am	-	5:00 pm	Registration ( <i>Crown Foyer – Ambassador Ballrooms</i> )
8:00 am	-	11:40 am	Session I – Keynote Session ( <i>Ambassador Ballroom West</i> )
10:00 am	-	3:30 pm	Guest Tour – Pre-registered Guests meet at the Lyon Square entrance at 9:45 am
9:40 am	-	10:00 am	Refreshment Break ( <i>Ambassador Ballroom East</i> )
11:40 am	-	1:00 pm	Lunch on your own
11:40 am	-	1:00 pm	APMS Student Affairs Luncheon ( <i>Emerald A</i> )
11:40 am	-	1:00 pm	Regional Chapters Presidents' Luncheon ( <i>Emerald B</i> )
1:00 pm	-	5:00 pm	Session II – Midwest Session and Student Presentations ( <i>Ambassador Ballroom West</i> )
2:40 pm	-	3:00 pm	Refreshment Break ( <i>Ambassador Ballroom East</i> )
5:00 pm	-	5:30 pm	APMS Annual Business Meeting ( <i>Ambassador Ballroom West</i> )
6:00 pm	-	7:30 pm	Poster Session and Reception ( <i>Crown Foyer - Ambassador Ballroom East</i> )

**Session I – Symposium and General Presentations on Midwest Aquatic Plant Management Issues**

8:00 am - 11:40 am

*Ambassador Ballroom West*

**Moderator: Dr. John Madsen** - APMS President Elect, Program Committee Chair, Legislative Committee Chair  
*U.S. Department of Agriculture, Agriculture Research Service, Exotic and Invasive Weeds Research Unit, Davis, CA*

- 8:00 am      **Call to Order - Announcements**  
**John Madsen**  
*U.S. Department of Agriculture, Agriculture Research Service, Exotic and Invasive Weeds Research Unit, Davis, CA*
- 8:05 am      **Presidential Address**  
**Robert J. Richardson**  
*North Carolina State University, Crop Science Department, Raleigh, NC*
- 8:15 am      **Partnerships for Management: Practitioners, Regulators, Researchers, and Resource Managers**  
**Symposium Introduction – John Madsen**
- 8:20 am      **Minnesota’s Approach to Management of Invasive Aquatic Plants**  
**Chip Welling**  
*Minnesota Department of Natural Resources, Division of Ecological and Water Resources, Saint Paul, MN*
- 8:40 am      **Collaborative Research on Invasive Aquatic Plant Management, a Consultant’s Perspective**  
**Paul J. Hausler**  
*Progressive AE, Grand Rapids, MI*
- 9:00 am      **Aquatic Plant Management as a Collaborative Process from the Perspective of a Management Practitioner**  
**Jason Broekstra**  
*PLM Lake & Land Management Corporation, Alto, MI*
- 9:20 am      **Collaboration for Invasive Aquatic Plant Management, A Lakeshore Owner’s Perspective**  
**Scott Brown**  
*Executive Director, Michigan Lake & Stream Association, Grass Lake, MI*
- 9:40 am      **Refreshment Break** (*Ambassador Ballroom East*)
- 10:00 am     **Role of Government Research on Regional Aquatic Plant Management Issues: Demonstration Projects**  
**Michael D. Netherland<sup>1</sup>** and Kurt D. Getsinger<sup>2</sup>  
<sup>1</sup>*U.S. Army Engineer and Research Development Center, Environmental Laboratory, Gainesville, FL*  
<sup>2</sup>*U.S. Army Engineer and Research Development Center, Environmental Laboratory, Vicksburg, MS*
- 10:20 am     **The Role of a University Specialist in Regional Aquatic Plant Management Programs**  
**Robert J. Richardson** and Steve T. Hoyle  
*North Carolina State University, Crop Science Department, Raleigh, NC*
- 10:40 am     **Panel Discussion**
- 11:00 am     **The Michigan Aquatic Nuisance Plant Species Program**  
**Lisa Huberty**  
*Michigan Department of Environmental Quality, Water Resources, Division, Lansing, MI*
- 11:20 am     **The Michigan Aquatic Invasive Species Program**  
**Sarah LeSage**  
*Michigan Department of Environmental Quality, Water Resources Division, Lansing, MI*
- 11:40 am     **Morning Wrap-up and Announcements - Lunch on your own**

## Session II – Midwest Session and Student Presentations

1:00 pm - 5:00 pm

Ambassador Ballroom West

**Moderator:** Michael D. Netherland, APMS Awards Committee Chair, Past President (2014)

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

- 1:00 pm     **Response of Aquatic Macrophytes to Removal of Invasive Common Carp in a Minnesota Shallow Lake (Student Presentation)**  
**Melaney Dunne<sup>1</sup>**, Raymond M. Newman<sup>1</sup>, Przemyslaw G. Bajer<sup>2</sup>, and Peter Sorensen<sup>1</sup>  
<sup>1</sup>*University of Minnesota, Department of Fisheries, Wildlife, and Conservation Biology, Saint Paul, MN*  
<sup>2</sup>*University of Minnesota, Minnesota Aquatic Invasive Species Research Center, Saint Paul, MN*
- 1:20 pm     **Water Soldier (*Stratiotes aloides*) in Ontario - Preventing Its Spread to the Great Lakes**  
**Holly I. Simpson**  
*Ontario Ministry of Natural Resources and Forestry, Peterborough, Ontario, Canada*
- 1:40 pm     **Response of Eurasian and Hybrid Watermilfoil to Five Auxin-mimic Herbicides (Student Presentation)**  
**Jens Beets<sup>1</sup>** and Michael D. Netherland<sup>2</sup>  
<sup>1</sup>*University of Florida, Agronomy Department, Gainesville, FL*  
<sup>2</sup>*U.S. Army Engineer and Research Development Center, Environmental Laboratory, Gainesville, FL*
- 2:00 pm     **Invasional Meltdown in Minnesota Lakes: Non-native Plants Are Winners and Native Plants Are Losers when Common Carp Invade**  
**Daniel J. Larkin<sup>1</sup>**, Marcus W. Beck<sup>2</sup>, and Przemyslaw G. Bajer<sup>1</sup>  
<sup>1</sup>*University of Minnesota, Minnesota Aquatic Invasive Species Research Center, Saint Paul, MN*  
<sup>2</sup>*U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory, Gulf Breeze, FL*
- 2:20 pm     **Biology and Management of Monoecious Hydrilla (*Hydrilla verticillata*) (Student Presentation)**  
**Joshua D. Wood<sup>1</sup>** and Michael D. Netherland<sup>2</sup>  
<sup>1</sup>*University of Florida, Center for Aquatic and Invasive Plants, Gainesville, FL*  
<sup>2</sup>*U.S. Army Engineer and Research Development Center, Environmental Laboratory, Gainesville, FL*
- 2:40 pm     **Refreshment Break (Ambassador Ballroom East)**
- 3:00 pm     **Evaluating the Sensitivity of Seven Aquatic Plants to Procellacor<sup>TM</sup> Herbicide (Student Presentation)**  
**Erika Haug<sup>1</sup>**, Robert J. Richardson<sup>1</sup>, Michael D. Netherland<sup>2</sup>, and Mark Heilman<sup>3</sup>  
<sup>1</sup>*North Carolina State University, Crop Science Department, Raleigh, NC*  
<sup>2</sup>*U.S. Army Engineer and Research Development Center, Environmental Laboratory, Gainesville, FL*  
<sup>3</sup>*SePRO Corporation, Carmel, IN*
- 3:20 pm     **Hydrilla (*Hydrilla verticillata*) Risk Assessment for the Great Lakes Basin**  
**Carl E. Mach<sup>1</sup>**, Kris Erickson<sup>1</sup>, Matthew A. Barnes<sup>2</sup>, Jonathan M. Bossenbroek<sup>3</sup>, Robert J. Richardson<sup>4</sup>, Christina Rockwell<sup>5</sup>, and Kathleen Evans<sup>1</sup>  
<sup>1</sup>*Ecology and Environment, Incorporated., Lancaster, NY*  
<sup>2</sup>*Texas Tech University, Natural Resources Management, Lubbock, TX*  
<sup>3</sup>*University of Toledo, Environmental Science, Toledo, OH*  
<sup>4</sup>*North Carolina State University, Crop Science Department, Raleigh, NC*  
<sup>5</sup>*Ecology and Environment, Incorporated, Buffalo, NY*
- 3:40 pm     **Potential Spread of Hydrilla (*Hydrilla verticillata*) to the Great Lakes Basin (Student Presentation)**  
**Kristen M. Hebebrand** and Jonathan M. Bossenbroek  
*University of Toledo, Environmental Science, Toledo, OH*

- 4:00 pm **Combining Multiple Species Distribution Modeling Approaches to Predict Suitable Habitat for the Invasive Aquatic Macrophyte *Hydrilla verticillata***  
**Sasha D. Soto**<sup>1</sup>, Matthew A. Barnes<sup>1</sup>, Carl Mach<sup>2</sup>, Carlos Portillo-Quintero<sup>1</sup>, Christina Rockwell<sup>2</sup>, and Kris Erickson<sup>2</sup>  
<sup>1</sup>*Texas Tech University, Natural Resources Management Department, Lubbock, TX*  
<sup>2</sup>*Ecology and Environment, Incorporated, Buffalo, NY*
- 4:20 pm **Competition of Select Submersed Aquatic Plants with Hydrilla in a Cool and a Warm Climate (Student Presentation)**  
**Amy Henry**, Tyler Harris, and Robert J. Richardson  
*North Carolina State University, Crop Science Department, Raleigh, NC*
- 4:40 pm **Development and Enhancement of the Michigan Invasive Aquatic Plant Citizen Monitoring Program**  
**Angela A. De Palma-Dow** and Jo Latimore  
*Michigan State University, East Lansing, MI*
- 5:00 pm **APMS Annual Business Meeting**
- 6:00 pm **Poster Session and Reception (Crown Foyer - Ambassador Ballroom East)**

**Poster Session**

6:00 pm - 7:30 pm

*Ambassador Ballroom East*

**Starry Stonewort: Using eDNA Technology to Address Identification Challenges Faced by Lake Monitoring Volunteers and Professionals**

**Angela A. De Palma-Dow**<sup>1</sup>, Erick Elgin<sup>2</sup>, Maggie Williams<sup>3</sup>, and Jo Latimore<sup>1</sup>

<sup>1</sup>*Michigan State University, East Lansing, MI*

<sup>2</sup>*MiCorps Cooperative Lakes Monitoring Program, East Lansing, MI*

<sup>3</sup>*Michigan State University, Environmental Engineering, East Lansing, MI*

**An Evaluation of Past and Present Aeration Designs: An Ohio Case Study**

**Patrick M. Goodwin**

*Vertex Water Features, Ponte Vedra Beach, FL*

**Control of Dreissenid Mussels with a more Rational Use of Copper**

**David G. Hammond**

*Earth Science Labs, Incorporated, Greenbrae, CA*

**2,4-D Metabolism in Eurasian Watermilfoil (*Myriophyllum spicatum*) and Several 2,4-D Tolerant Milfoil Hybrid Populations (*M. spicatum* X *M. sibiricum*) (Student Presentation)**

**Kallie C. Kessler**, Mirella Ortiz, and Scott J. Nissen

*Colorado State University, Fort Collins, CO*

**Delta Region Areawide Aquatic Weed Project and the Adaptive Management of Invasive Weeds in the Sacramento / San Joaquin River System**

**John D. Madsen**<sup>1</sup>, Patrick J. Moran<sup>2</sup>, Paul J. Pratt<sup>2</sup>, David L. Bubenheim<sup>3</sup>, and Edward J. Hard<sup>4</sup>

<sup>1</sup>*U.S. Department of Agriculture, Agriculture Research Service, Exotic and Invasive Weeds Research Unit, Davis, CA*

<sup>2</sup>*U.S. Department of Agriculture, Agriculture Research Service, Exotic and Invasive Weeds Research Unit, Albany, CA*

<sup>3</sup>*National Aeronautics and Space Administration, Ames Research Center, Moffett Field, CA*

<sup>4</sup>*California Department of Parks and Recreation, Division of Boating and Waterways, Sacramento, CA*

**Integration of Prevention, Early Detection, and Suppression of Aquatic Invasive Species: An Example from Eurasian Watermilfoil Management**

**Alejandro Reyes**

*State University of New York, Oneonta Biological Field Station, Oneonta, NY*

## **Ecological Restoration Using Aquatic Mechanical Harvesting**

**Bruce A. Richards**

*Weedoo Shoreline Workboats, Incorporated, Hockessin, DE*

## **Incorporation of Biotype Alters Species Distribution Model Predictions of Suitable Habitat for the Invasive Aquatic Macrophyte, *Hydrilla verticillata* (Student Presentation)**

**Sasha D. Soto**<sup>1</sup>, Carl Mach<sup>2</sup>, Carlos Portillo-Quintero<sup>1</sup>, Christina Rockwell<sup>2</sup>, Kris Erickson<sup>2</sup>, and Matthew A. Barnes<sup>1</sup>

<sup>1</sup>*Texas Tech University, Natural Resources Management Department, Lubbock, TX*

<sup>2</sup>*Ecology and Environment, Incorporated, Buffalo, NY*

## **The Effects of the Contact Herbicide Diquat on Mixed Stands of Flowering Rush and Hardstem Bulrush in Lake Sallie, MN - a Pilot Study**

**Lee G. Turnage**<sup>1</sup>, Brent Alcott<sup>2</sup>, and Tera Guetter<sup>2</sup>

<sup>1</sup>*Mississippi State University, Geosystems Research Institute, Starkville, MS*

<sup>2</sup>*Pelican River Watershed District, Detroit Lakes, MN*

## **Tuesday, July 19**

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

- 7:00 am - 8:00 am Continental Breakfast (*Ambassador Ballroom East*)
- 7:00 am - 5:20 pm Exhibits Open (*Ambassador Ballroom East*)
- 7:00 am - 5:20 pm Posters Open (*Ambassador Ballroom East*)
- 7:30 am - 5:00 pm Registration (*Crown Foyer – Ambassador Ballroom*)
- 8:00 am - 11:40 am Session III – General Session and Student Presentations (*Ambassador Ballroom West*)
- 9:40 am - 10:00 am Refreshment Break (*Ambassador Ballroom East*)
- 11:40 am - 1:00 pm Lunch on your own
- 11:40 am - 1:00 pm APMS Past Presidents' Luncheon (*Vandenberg A*)
- 11:40 am - 1:00 pm Women in Aquatics Luncheon (*Vandenberg B*)
- 1:00 pm - 5:20 pm Session IV – General Session and Student Presentations (*Ambassador Ballroom West*)
- 2:40 pm - 3:00 pm Refreshment Break (*Ambassador Ballroom East*)
- 6:30 pm - 7:00 pm Awards Reception (*Center Concourse*)
- 7:00 pm - 10:00 pm Awards Banquet (*Pantlind Room*)
- 8:30 pm - 10:00 pm APMS Awards Presentations (*Pantlind Room*)

### **Session III – General Session and Student Presentations**

8:00 am - 11:40 am

*Ambassador Ballroom West*

**Moderator:** Christopher R. Mudge – APMS Student Affairs Committee Chair

*U.S. Army Corps of Engineers, Engineer Research and Development Center, Baton Rouge, LA*

8:00 am **Translocation of <sup>14</sup>C-Endothall in Eurasian Watermilfoil and Two Hydrilla Biotypes (Student Presentation)**

**Mirella Ortiz**<sup>1</sup>, Kallie C. Kessler<sup>1</sup>, Scott J. Nissen<sup>1</sup>, and Cody J. Gray<sup>2</sup>

<sup>1</sup>*Colorado State University, Fort Collins, CO*

<sup>2</sup>*UPI, Peyton, CO*

8:20 am **AERF Update**

**Carlton Layne**

*Aquatic Ecosystem Restoration Foundation, Marietta, GA*

8:40 pm **Identifying Morphological Differences and Herbicide Efficacy of the Uruguay Water Primrose Complex (*Ludwigia uruguayensis*) in Florida (Student Presentation)**

**Afsari Banu**, Stephen F. Enloe, and Colette Jacono

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

- 9:00 am **At the Front of a Storm: What Emerging Federal Processes for Endangered Species Risk Assessment Will Mean to the Registration**  
**Bernalyn D. McGaughey**  
*Compliance Services International, Lakewood, WA*
- 9:20 am **A Novel High-throughput Genotyping Assay for Distinguishing *Myriophyllum* spp. and their Hybrids (Student Presentation)**  
**Kallie C. Kessler<sup>1</sup>**, Eric L. Patterson<sup>1</sup>, Margaret B. Fleming<sup>2</sup>, Scott J. Nissen<sup>1</sup>, and Todd A. Gaines<sup>1</sup>  
<sup>1</sup>*Colorado State University, Fort Collins, CO*  
<sup>2</sup>*U.S. Department of Agriculture, Agriculture Research Service, National Center for Genetic Resources Preservation, Fort Collins, CO*
- 9:40 am **Refreshment Break (Ambassador Ballroom East)**
- 10:00 am **Effects of Aquatic Herbicides on Brazilian Pepper Tree (*Schinus terebinthifolius*) (Student Presentation)**  
**Cody A. Lastinger** and Stephen F. Enloe  
*University of Florida, Agronomy Department, Gainesville, FL*
- 10:20 am **Washington Update**  
**Lee VanWychen**  
*Weed Science Society of America, Alexandria, VA*
- 10:40 am **Influence of Copper Algaecide Concentration and Formulation on Aqueous Microcystin-LR Degradation (Student Presentation)**  
**Kyla J. Iwinski<sup>1</sup>**, Ciera M. Kinley<sup>2</sup>, Alyssa Calomeni<sup>2</sup>, Tyler Geer<sup>2</sup>, and John Rodgers, Jr.<sup>2</sup>  
<sup>1</sup>*Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC*  
<sup>2</sup>*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*
- 11:00 am **Control of Taste and Odor Producing Algae in Source Water for Anderson Regional Joint Water System**  
**John H. Rodgers, Jr.<sup>1</sup>**, Alyssa Calomeni<sup>1</sup>, Kyla J. Iwinski<sup>2</sup>, Tyler Geer<sup>1</sup>, Matt Huddleston<sup>3</sup>, Scott Willett<sup>4</sup>, Jennifer Barrington<sup>4</sup>  
<sup>1</sup>*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*  
<sup>2</sup>*Clemson University, Department of Wildlife and Fisheries Biology, Clemson, SC*  
<sup>3</sup>*SynTerra, Greenville, SC*  
<sup>4</sup>*Anderson Regional Joint Water System, Anderson, SC*
- 11:20 am **Influence of Dissolved and Particulate Organic Carbon on Exposures of an SCP Algaecide and Consequent Responses of *Microcystis aeruginosa* (Student Presentation)**  
**Tyler Geer**, Ciera M. Kinley, Kyla J. Iwinski, Alyssa Calomeni, John H. Rodgers, Jr.  
*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*
- 11:40 am **Morning Wrap-up and Announcements - Lunch on your own**

**Session IV – General Session and Student Presentations**

1:00 pm - 5:20 pm

*Ambassador Ballroom West*

**Moderator:** Ryan M. Wersal – APMS Director

*Lonza, Alpharetta, GA*

- 1:00 pm **Field Monitoring and Sampling of Chemically Treated Giant Salvinia in Louisiana and Texas**  
**Christopher R. Mudge<sup>1</sup>** and Bradley T. Sartain<sup>2</sup>  
<sup>1</sup>*U.S. Army Engineer and Research Development Center, Baton Rouge, LA*  
<sup>2</sup>*Louisiana State University, School of Plant, Environmental, and Soil Sciences, Baton Rouge, LA*

- 1:20 pm **Bald Cypress (*Taxodium distichum* (L.) Rich.) Survival and Re-leafling Success in Response to Low GPA Winter Herbicide Applications for Managing Giant Salvinia (*Salvinia molesta* D.S. Mitchell) (Student Presentation)**  
**Bradley T. Sartain<sup>1</sup>** and Christopher R. Mudge<sup>2</sup>  
<sup>1</sup>Louisiana State University, School of Plant, Environmental, and Soil Sciences, Baton Rouge, LA  
<sup>2</sup>U.S. Army Engineer and Research Development Center, Baton Rouge, LA
- 1:40 pm **The Corps of Engineers Aquatic Plant Control Research Program – An Update**  
**Linda Nelson<sup>1</sup>** and Jeremy Crossland<sup>2</sup>  
<sup>1</sup>U.S. Army Engineer Research and Development Center, Vicksburg, MS  
<sup>2</sup>U.S. Army Corps of Engineers, Headquarters, Washington, DC
- 2:00 pm **Evaluation of an Integrated Pest Management Approach using Herbicide Treatments and the Giant Salvinia Weevil (*Cyrtobagous salviniae*) to Control Giant Salvinia (*Salvinia molesta*) (Student Presentation)**  
**Allie Cozad<sup>1</sup>** and Christopher R. Mudge<sup>2</sup>  
<sup>1</sup>Louisiana State University, Natchitoches, LA  
<sup>2</sup>U.S. Army Engineer and Research Development Center, Baton Rouge, LA
- 2:20 pm **The State of the State of Old World Climbing Fern in Florida**  
**Stephen F. Enloe**  
University of Florida, Agronomy Department, Gainesville, FL
- 2:40 pm **Refreshment Break (Ambassador Ballroom East)**
- 3:00 pm **Monoecious Hydrilla Management in a Lotic System: Target and Non-target Responses to Fluridone (Student Presentation)**  
**Shannon Auell<sup>1</sup>**, Greg Cope<sup>2</sup>, Steve T. Hoyle<sup>1</sup>, and Robert J. Richardson<sup>1</sup>  
<sup>1</sup>North Carolina State University, Crop Science Department, Raleigh, NC  
<sup>2</sup>North Carolina State University, Applied Ecology Department, Raleigh, NC
- 3:20 pm **The Challenges and Techniques of Managing Monoecious Hydrilla in Flowing Water Systems**  
**Justin J. Nawrocki** and Robert J. Richardson  
North Carolina State University, Crop Science Department, Raleigh, NC
- 3:40 pm **Integrated Management of Waterhyacinth (*Eichhornia crassipes*) (Student Presentation)**  
**Samantha Sardes<sup>1</sup>**, Lyn A. Gettys<sup>1</sup>, Carl J. Della Torre III<sup>1</sup>, Carey Minter<sup>2</sup>, and Philip Tipping<sup>2</sup>  
<sup>1</sup>University of Florida, Ft Lauderdale Research and Education Center, Davie, FL  
<sup>2</sup>U.S. Department of Agriculture, Agriculture Research Service, Invasive Plants Research Laboratory, Davie, FL
- 4:00 pm **Monitoring and Research Advancements of Invasive Milfoil Control**  
**Eddie J. Heath<sup>1</sup>**, Michelle Nault<sup>2</sup>, John Skogerboe<sup>3</sup>, and Tim Hoyman<sup>1</sup>  
<sup>1</sup>Onterra LLC, De Pere, WI  
<sup>2</sup>Wisconsin Department of Natural Resources, Green Bay, WI  
<sup>3</sup>Retired - U.S. Army Corps of Engineers, Engineer Research and Development Center, Lake Elmo, MN
- 4:20 pm **Correlation of Hydroacoustic Biovolume Estimation to Submersed Plant Biomass (Student Presentation)**  
**Andrew Howell** and Robert J. Richardson  
North Carolina State University, Crop Science Department, Raleigh, NC
- 4:40 pm **Factors Affecting Curlyleaf Pondweed Frequency of Occurrence and Relative Density in Managed and Unmanaged Systems: An Analysis of Results from 60 Lakes**  
**Raymond M. Newman** and Adam R. Kautza  
University of Minnesota, Department of Fisheries, Wildlife, and Conservation Biology, Saint Paul, MN

- 5:00 pm      **The Effects of Organic Matter Content, Nitrogen, and Phosphorus on Growth of Illinois Pondweed**  
*(Student Presentation)*  
**Jonathan R. Gosselin** and William Haller  
*University of Florida, Agronomy Department, Center for Aquatic and Invasive Plants, Gainesville, FL*
- 5:20 pm      **Adjourn General Session**
- 6:30 pm      **Awards Banquet Reception** *(Center Concourse)*
- 7:00 pm      **Awards Banquet** *(Pantlind Room)*

### Wednesday, July 20

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

- 7:00 am - 8:00 am    Continental Breakfast *(Ambassador Ballroom East)*
- 7:00 am - 10:00 am   Exhibits Open *(Ambassador Ballroom East)*
- 7:00 am - 10:00 am   Posters Open *(Ambassador Ballroom East)*
- 7:30 am - 12:00 pm   Registration *(Crown Foyer – Ambassador Ballroom)*
- 8:00 am - 12:35 pm   Session V – General Presentations and Updates *(Ambassador Ballroom West)*
- 9:40 am - 10:00 am   Refreshment Break *(Ambassador Ballroom East)*
- 10:00 am - 12:00 pm   Poster and Exhibit Breakdown *(Ambassador Ballroom East)*
- 12:45 pm -            Student Tour Begins
- 1:15 pm - 5:00 pm    APMS Board of Directors Meeting *(Grandview Room)*

#### Session V – General Presentations and Updates

8:00 am - 12:35 pm  
*Ambassador Ballroom West*

**Moderator: Dr. John H. Rodgers, Jr.** - APMS Vice President, Regional Chapters Committee Chair  
*Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC*

- 8:00 am      **PROCELLACOR™ – A Novel Herbicide Technology in Development for Aquatic Plant Management**  
**Mark A. Heilman**  
*SePRO Corporation, Carmel, IN*
- 8:20 am      **Mesocosm Evaluations on Hybrid Milfoil from Three Wisconsin Lakes**  
**Ryan M. Wersal**<sup>1</sup>, Scott M. Provost<sup>2</sup>, Brenda Nordin<sup>3</sup>, and Bill Ratajczyk<sup>4</sup>  
<sup>1</sup>*Lonza, Alpharetta, GA*  
<sup>2</sup>*Wisconsin Department of Natural Resources, Wisconsin Rapids, WI*  
<sup>3</sup>*Wisconsin Department of Natural Resources, Green Bay, WI*  
<sup>4</sup>*Lonza, Jackson, WI*
- 8:40 am      **Vegetative Reproductive Ability of Crested Floating Heart** *(Nymphoides cristata)*  
**Lyn A. Gettys**, Carl J. Della Torre III, and Kyle Thayer  
*University of Florida, Ft Lauderdale Research and Education Center, Davie, FL*
- 9:00 am      **Strategic Management of Aquatic Weeds in New Zealand**  
**Paul D. Champion**  
*National Institute of Water and Atmospheric Research, Hamilton, New Zealand*
- 9:20 am      **Eradicating Aquatic Weeds - Success and Progress**  
**Deborah E. Hofstra**<sup>1</sup>, John S. Clayton<sup>2</sup>, and Paul D. Champion<sup>2</sup>  
<sup>1</sup>*National Institute of Water and Atmospheric Research, Freshwater and Estuaries Centre, Hamilton, New Zealand*  
<sup>2</sup>*National Institute of Water and Atmospheric Research, Hamilton, New Zealand*
- 9:40 am      **Refreshment Break** *(Ambassador Ballroom East)*



- 10:00 am     **Evaluation of EcoAnalytics and Canopeo: Tools to Assist with Aquatic Plant Surveys and Impacts of Herbicide Treatments**  
**Dean Jones<sup>1</sup>**, Ryan Moore<sup>2</sup>, and Michael D. Netherland<sup>3</sup>  
<sup>1</sup>*University of Florida, Center for Aquatic and Invasive Plants, Lake Alfred, FL*  
<sup>2</sup>*Gator Creek Technologies, LLC, Lakeland, FL*  
<sup>3</sup>*U.S. Army Engineer and Research Development Center, Environmental Laboratory, Gainesville, FL*
- 10:20 am     **Total Lake Vegetation Mapping Utilizing Sonar Plus Other Sensing Technologies**  
**Steve T. Hoyle**, Andrew Howell, and Robert J. Richardson  
*North Carolina State University, Crop Science Department, Raleigh, NC*
- 10:40 am     **Data Deluge from Automated Sensors: A Problem for Aquatic Plant Management or an Opportunity?**  
**Ray D. Valley**  
*Navico (BioBase), Digital Marine Division, Minneapolis, MN*
- 11:00 am     **The Potential for Cryptic Taxa in Aquatic Systems**  
**Syndell Parks**  
*GenPass LLC, Muskegon, MI*
- 11:20 am     **Effective Management of Starry Stonewort**  
**Ben E. Willis** and West M. Bishop  
*SePRO, SePRO Research & Technology Campus, Whitakers, NC*
- 11:40 am     **Sediment and Nutrient Reduction Using Bacteria**  
**Clarence E. Timmer<sup>1</sup>** and Trace Wolfe<sup>2</sup>  
<sup>1</sup>*Aquatic Vegetation Control, Incorporated, Port Saint Lucy, FL*  
<sup>2</sup>*Clear Waters, Incorporated, New Smyrna Beach, FL*
- 12:00 pm     **APMS Regional Chapters: An Update on Key Initiatives within Each Region**  
**John H. Rodgers, Jr.**, Moderator  
          Western           South Carolina           Midwest           Florida  
          Texas            Northeast            MidSouth
- 12:35 pm     **Wrap-up and Adjourn 56<sup>th</sup> Annual Meeting**
- 1:15 pm     **APMS Board of Directors Meeting** (*Grandview Room*)