

PROGRAM

41st Annual Meeting

of the

South Carolina
Aquatic Plant Management
Society, Inc.



October 2-4, 2019

Ocean Drive Beach & Golf Resort

North Myrtle Beach, South Carolina

Wednesday, October 2, 2019
Afternoon Session

Moderator: Hugo Burbage, SCAPMS President, *Santee Cooper*

10:00 - 12:00 a.m. SCAMPS Board meeting

11:00 - 5:00 p.m. Registration Open

12:50 p.m. Presidential Address:

Hugo Burbage, *Santee Cooper, Moncks Corner, SC*

1:00 p.m. Keynote Address:

Remembering a Colleague and a Friend

Ken Manuel, *Retired Duke Energy, Huntersville, NC*

1:30 p.m. From Bench Scale Trials to Field Cyanobacterial Management with PAA + Peroxide

Tom Warmuth, *Biosafe Systems, Hartford, CT*

1:50 p.m. Uptake of Herbicides from the Hydrosoil by Hydrilla

William T. Haller, *Center for Aquatic and Invasive Plants-University of Florida, Gainesville, FL*

2:10 p.m. Break

**2:25 p.m. Platinum Level Sponsorship Updates
SePRO and Airmax**

2:45 p.m. Native Macrophyte Revegetation on the Santee Cooper Lake System

Judson Riser, *Santee Cooper, Moncks Corner, SC*

Wednesday, October 2, 2019
Afternoon Session (continued)

- 3:05 p.m. Student Paper: The Ecological Role of Water Willow (*Justicia americana*): Impacts of A Native Aquatic Plant on Wildlife and Game Species**
Jonathan Lopez, Thomas Parr and Caryn Vaughn
University of Oklahoma, Norman, OK
- 3:25 p.m. Student Paper: Nymphoides in Florida**
Ian J. Markovich, Lyn A. Gettys, Kyle L. Thayer, and Joseph W. Sigmon
University of Florida/IFAS, Fort Lauderdale Research and Education Center, Davie, FL
- 3:45 p.m. Vegetative Reproduction and Productivity of of Crested Floating Heart (*Nymphoides cristata*)**
Lyn A. Gettys, Ian J. Markovich, Kyle L. Thayer, and Carl J. Della Torre III.
University of Florida/IFAS, Fort Lauderdale Research and Education Center, Davie, FL
- 4:05 p.m. Platinum Level Sponsorship Updates**
Outdoor Water Solutions and UPL
- 4:25 p.m. Aquatic Vegetation and Algae Identification**
Aquatic Plant Exhibit provided by NCDEQ & NC State
Algae Identification Exhibit provided by SePRO
- 5:00 p.m. Student Mixer** *Professionals in the aquatics industry will meet with students for some informal networking and fun*
- 6:00 - 8:00 p.m. President's Reception, Sponsored by SePRO**

Thursday, October 3, 2019
Morning Session

Moderator: Ben Willis, *SePRO Corporation*

7:45 a.m. – 5:00 p.m. Registration Open

7:30 a.m. Continental Breakfast, Salon A.

**8:00 a.m. Welcome: Scholarship Raffle, Door Prize Drawing
Announcements**

8:15 a.m. Gold, Silver, Contributing Sponsor Updates

8:40 a.m. Student Paper: Influence of Substrate on *Hydrilla verticillata* Establishment in Lotic Systems

Kara Foley, Rob Richardson

North Carolina State University, Raleigh, NC

9:00 a.m. Student Paper: Non-Target Impacts of Hydrilla and Lyngbya Treatments on Waterwillow (*Justicia americana*)

Jens Beets, Erika Haug, and Rob Richardson

North Carolina State University, Raleigh, NC

9:20 a.m. Aquatics in Today's Political and Social Media Climate: Waters of the US, Glyphosate and FWC Ohhh My

Carlton Layne, AERF Foundation, Alpharetta, GA

Thursday October 3, 2019
Morning Session (continued)

- 9:40 a.m. Student Paper: Quantifying *Lyngbya wollei* Biomass Using Non-Destructive Echosounding Measures**
Andrew W. Howell, J. Tyler Harris, and
Rob J. Richardson
North Carolina State University, Raleigh, NC
- 10:00 a.m. Break**
- 10:20 a.m. Scholarship Raffle Door Prize Drawings**
- 10:30 a.m. Student Paper: Employing a Convolutional Neural Network for *Eichonria crassipes* and *Salvinia molesta***
Eric White and Rob Richardson
North Carolina State University, Raleigh, NC
- 10:50 a.m. Student Paper: An Efficacy Evaluation of Selected Algaecides on *Lyngbya wollei* Control**
Emily Vulgamore and Rob Richardson
North Carolina State University, Raleigh, NC
- 11:10 a.m. Using Less Copper to Get Harmful Algae Blooms Under Control, More Bang for Your Buck: Less Copper Means Less Algae**
Patrick Simmsgeiger, *DWI Inc, Laguna Niguel, CA*
- 11:30 a.m. Annual Business Meeting**
- 12:00 p.m. Lunch on your own**

Thursday October 3, 2019
Afternoon & Evening Sessions

- 1:00-6:00 p.m. Scholarship Golf Tournament (Larry Feller)**
Sponsored by Syngenta, Mountain Lake and
Pond and Carolina Aquatic Management
- 1:00-6:00 p.m. Fishing Tournament (Cory Heaton)**
Sponsored by Clemson Extension and Vertex
Water Features
- 5:45 p.m. Hospitality: Pool Side**
- 6:00 – 6:45 p.m. Duck Race (Bo Burns)**
Sponsored by Solitude Lake Management,
Foster Lake & Pond Management
and Estate Management Services
- 7:00 – 10:00 p.m. Awards Banquet**

Friday, October 4, 2019
Morning Session

Moderator: Steve Hoyle, *North Carolina State University*

7:00 a.m. Continental Breakfast, Salon A.

8:00 a.m. Friday Registration

8:00 a.m. Welcome, Scholarship Raffle Door Prize Drawings

8:15 a.m. New Product Updates 5 Minutes per Member by Appointment Only

8:45 a.m. The Continued Spread of Yellow Floating Heart and Woolly Frogsmouth in North Carolina
Bridgette Lassiter, NC Dept. of Agriculture

9:05 a.m. Hydrilla and Human Dimensions – How Social, Cultural, and Economic Drivers Influence Regional Invasive Aquatic Plant Management
Brett Hartis, Duke Energy Corporation

9:25 a.m. Calibrating Hydrilla Mechanical Harvest Operations Performance on Lake Tohopekaliga
James Leary, Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL

9:45 a.m. Advanced Survey Techniques and Data Processing: UAVs, SONAR Surveys, GIS, Drones
Andrew W. Howell, J. Tyler Harris
North Carolina State University, Raleigh, NC

10:45 a.m. Break

11:00 a.m. Final Scholarship Raffle Door Prize Drawings

Friday October 4, 2019
Morning Session (continued)

- 11:20 a.m. APMS Update:** Mark Heilman,
SePRO Coporation
- 11:30 a.m. Duke Energy Update:** Brett Hartis
Duke Energy, Huntersville, NC
- 11:40 a.m. Santee Cooper Update:** Casey Moorer, Santee
Cooper Power, Moncks, Corner, SC
- 11:50 a.m. North Carolina Update:** Rob Emens,
NCDENR, Raleigh, NC
- 12:00 p.m. South Carolina Update:** Chris Page,
SCDNR, Columbia, SC
- 12:10 p.m. Adjourn**
- 12:30 p.m. SCAPMS Board of Directors Meeting**

Board of Directors

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Hugo Burbage
Santee Cooper

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