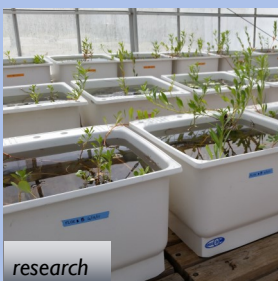


Since 1961

Organized as a forum to share water hyacinth control experiences, APMS also promotes research, monitoring and outreach for managing all species of aquatic plants and algae.



research



field evaluation



outreach



technical exchange

# Aquatic Plant News

The Newsletter of the Aquatic Plant Management Society, Inc.

7922 NW 71<sup>st</sup> Street, Gainesville, FL 32653

We're on the Web!  
[apms.org](http://apms.org)

Issue 119

October 2018

## Message from President Craig Aguillard

The 58<sup>th</sup> annual meeting of the Aquatic Plant Management Society at the Hyatt Regency Hotel in Buffalo, New York was a success. It was attended by more than 200 delegates, students, and guests. One of the high notes of the convention was



Mr. Craig Aguillard

the 16 oral presentations and 12 posters presented by the students. Congratulations to Greg M. Chorak and Ryan Thum of Montana State University for receiving the APMS Graduate Student Research Grant. This is the premiere education initiative award of \$40,000 that will run from January 2019 through December 2020. We also look forward to welcoming to the Board of Directors, Mirella Ortiz from Colorado State University, who was voted by her peers to a one-

year term as Student Director.

As I write this message, I would like to mention that my thoughts and prayers are with all those affected by Hurricane Florence. Last year Dr. Rodgers made mention of several hurricanes that affected many people in the aftermath of these storms, and I would hope that this is not the norm in writing this message. I have personally dealt with both hurricanes and floods, and I know that they are difficult to handle, but most are able to pull out of them with the help of caring people.

The Annual Meeting presentations were well-rounded with a variety of topics discussed. We had several presentations

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## Message from President Aguiard

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surrounding the invasive alga, Starry Stonewort, that has become a major problem in that region. We heard several presentations on hydrilla control in Lake Cayuga and the Erie Canal and talks on cyanobacteria just to mention a few. I would like to thank all the presenters as they made my duty as Program Chairman easy as so many informative talks were presented.

We concluded the meeting with the Awards Banquet where several awards were given to very worthy recipients. These people have given most of their careers to the society and I want to thank them and congratulate these individuals. I would also like to thank all the sponsors and volunteers who always make the APMS Annual Meeting special.

Part of the Annual Meeting is a post conference educational tour for all the student presenters. This takes a team effort from many groups of people. I would like to thank Dr. Chris Mudge who is the Chairman of this committee along with the help that he solicited to make this tour a tremendous success. The planning of such an event can be challenging, and Dr. Mudge has managed it to perfection.

Program Chair and President Elect Dr. Mark Heilman has begun planning the 59<sup>th</sup> Annual Meeting to be held at the Doubletree San Diego Mission Valley in San Diego, California on July 14-17th, 2019. I am positive that Dr. Heilman and his Program Committee, with the help of the Western Regional Chapter will have a variety of topics presented for your learning pleasure. I hope to see many of you in San Diego.

The Midyear Board of Directors meeting will be held in San Antonio, Texas on January 29th at the Hyatt Regency, home of the 2020 Annual Meeting. Normally we hold this meeting at the site of the annual convention, but we chose San Antonio because it is more central for all Board members who are attending. Last year we moved the meeting to New Orleans to avoid the New York snow. We unfortunately got

ice and snow in New Orleans and had to stay an extra day.

I plan to attend several of the Regional Chapter meetings throughout the year to meet and learn from the many incredible members and scientists in our society. In closing, my thoughts and prayers are with all those working to get their lives together from the damage caused by Hurricane Florence, and I look forward to and appreciate the challenges the society has placed in me as your President of APMS.

Best Regards,

Craig Aguiard

## Changes at Duke Energy Carolinas

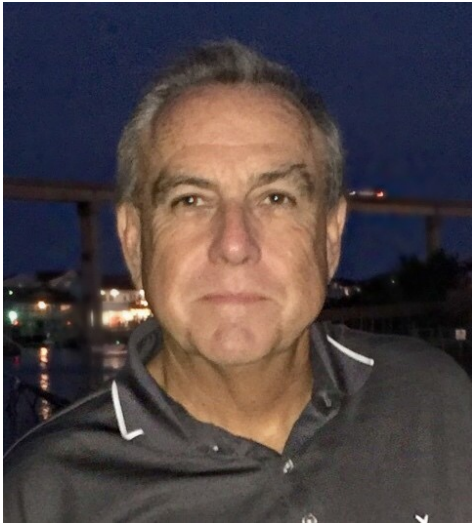
After 38 years, Ken Manuel is retiring at the end of October 2018 from his position of Duke Energy Reservoir Aquatic Plant Manager where he and Tommy Bowen coordinated the management of invasive species in Duke Energy's 44 power production reservoirs in the Carolinas. Ken is a 34-year member of APMS, serving on the Board and as President in 2004.

In preparation for the transition, Duke Energy launched a search to find the next leader for the Aquatic Plant Management team. The search resulted in Brett Hartis joining Duke Energy on September 24, as the next leader for this team. Brett is also an APMS member, just completing a three-year term as Director on the APMS Board.

Brett completed his doctorate work in Fisheries, Wildlife and Conservation Biology at North Carolina State University. He completed undergraduate studies at East Carolina University (BS Biology/Fisheries Management) and earned a Masters in Natural Resources from NCSU. Most recently, Brett led the aquatic plant management program for the Tennessee Valley Authority (TVA).

In accepting the job, Brett is returning to North Carolina. He and his wife Tara along with their sons Trait (age 4) and Teague (4 months) are relocating to the Lake Norman area from Grant, Alabama.

## In Remembrance of Tommy Wade Bowen - - June 2, 1954 - October 8, 2018



Tommy Wade Bowen, age 64, Passed away at Novant Presbyterian Hospital on October 8, 2018 surrounded by his family who loved him very much. Tommy was born on June 2, 1954 in Williamston, NC where he was raised and graduated from Martin Community College. He was hired by Duke Energy in 1974 where he worked 44 years as a biologist. His love for his job and fellow coworkers was incomparable; truly his second family.

Tommy is preceded in death by his father, William Thomas Bowen, his four sons; Brandon, Josh, Cole, and Brett Bowen, and his daughter-in-law, Taylor Bowen.

Tommy loved most importantly spending time with his family and friends. He was very active in everything his sons did, particularly sports, and had a passion for east Lincoln athletics where he worked in the press box every football Thursday and Friday night. Annual Beach trips to Holden Beach were a special time of year for him and the family where he enjoyed fishing, beach games, putt-putt, ice cream and good seafood. He truly was a water child whether it be driving in the Duke Energy airboat surveying for aquatic plants or trolling along the Holden Beach coastline fishing with his sons.

Christ played a large part in Tommy's life and he was very active in Mt. Zion United Methodist Church, from youth director, elementary church camp counselor to helping with the annual church BBQ. He loved to help in any way he could.

Tommy bled Carolina blue and he loved cheering on the Tar Heels and Panthers every game of the season. It was and will continue to be a loud living room every week as he continues to watch the games with his family.

A memorial service to celebrate his life will be held at 3:00 p.m. Saturday, October 13, 2018 at Mt. Zion United Methodist Church in Cornelius, NC. Receiving of friends to proceed the service at 1:00 p.m. The family will accept flowers or monetary donations made out to the Muscular Dystrophy Association (MDA) at [www.mda.org](http://www.mda.org) in memory of Christopher and Cameron Hallman whom Tommy and the family loved dearly.

*2 Timothy 4:7 – "I have fought the fight, I have finished the race, I have kept the faith."*

Donations may be made to:

Muscular Dystrophy Association  
Web: <https://www.mda.org/>

Tommy was also an important member of the APMS family since 1987. He excelled at coordinating the APMS annual meeting as Meeting Planning Committee Chair from 2011 through the 2018 meeting this summer in Buffalo, NY. He received the Max McCowen Friendship Award in 2014 for his outgoing and friendly demeanor, and the T. Wayne Miller Distinguished Service Award in 2017 for his long term service to the Aquatic Plant Management Society and to the field of aquatic plant management. We will deeply miss our friend and colleague, Tommy Bowen.

## APMS Honors Aquatic Plant Managers during the 2018 Annual Meeting

More than 200 members and guests attended the 58<sup>th</sup> Annual Meeting of the Aquatic Plant Management Society at the Hyatt Regency Hotel in Buffalo, New York on July 15-19, 2018.

APMS President, Dr. John Rodgers and Keynote speaker Dr. David Lodge set the tone for the conference addressing the importance of identifying, understanding, and managing invasive aquatic plants and algae. Both emphasized anticipating invasions, creating a responsible action plan, including research, and implementing the management plan before problems manifest. Catherine McGlynn brought the meeting from the conceptual level to regional

management efforts.

There were 17 presentations on assessment and management of aquatic plants and cyanobacteria in the Northeast. A breakdown of Program content follows: 27 algaecide and herbicide evaluation presentations; 23 presentations on assessing, mapping, and monitoring; nine presentations related to integrated plant management; and five on plant genetics and physiology. Twelve papers dealt exclusively with algae, with a focus on harmful algal blooms (9) and problems related to the macrophytic alga, starry stonewort (3).



Student presenters at the APMS Annual Meeting with Student Affairs Committee Chair, Chris Mudge – far right

### Awards

The feature social event during the APMS Annual Meeting is the Tuesday evening Awards Banquet. APMS honors long-term achievements in aquatic plant and algae management as well as ongoing and recently completed research. Following are award recipients for 2018.

### Student Presentations

APMS sponsors oral and poster competitions in which graduate and PhD-candidate students present current research. There were 28 student papers (16 oral and 12 poster) in the competition presented by 24 different students representing nine universities. Cash awards are presented for first (\$300), second (\$200),

and third (\$100) place in each presentation category.

Tyler Geer from Clemson University placed first in the



Chris Mudge, presents the first place Oral Presentation competition check to Tyler Geer (left)

Student Oral Presentations with his project: *Rapid Response to an Early Detection of Nitelopsis obtusa (Starry Stonewort) in Lake Sylvia, Minnesota, Using a Copper-Based Algaecide*. Jens Beets and Candice Prince, both of the University of Florida placed second and third, respectively.

*continued next page*

## 2018 APMS Award Presentations *(continued from page 3)*



Andrew Howell (left) receives the first-place check for Student Poster Presentation from Chris Mudge

Andrew Howell of North Carolina State University took first place in the Poster competition with his presentation: *Utilization of Dual Transducers Improves Hydroacoustic Survey Efficiency*. William Prevost of Louisiana State University and Eryn Molloy of North Carolina State University, placed second and third, respectively.

Thum of Montana State University. Their project submission: *Identifying Eurasian and Hybrid Watermilfoil Gene Expression Differences in Response to Frequently Used Herbicides for Improved Adaptive Management*, is awarded the two-year, \$40,000 GSRG that will run from January 2019 through December 2020.



Vice President Mark Heilman (left) awards the 2018 Graduate Student Research Grant to Dr. Ryan Thum (right) of Montana State University

### Outstanding Graduate Student Award

Andrew Howell of North Carolina State University also received the Outstanding Graduate Student Award for his dedication and commitment to scholarship and consistently going outside his comfort zone to push his skill set in pursuit of his doctoral degree.

### APMS Student Director

Mirella Ortiz from Colorado State University was voted by her peers to serve a one-year term as Student Director on the APMS Board of Directors for 2018-2019. The Student Director represents student issues and is a full voting member on the APMS Board.

### APMS Graduate Student Research Grant

The Graduate Student Research Grant (GSRG) is the premier education initiative offered by APMS. The objective is to provide a grant for a full-time graduate student to conduct research in an area involving aquatic plant management techniques (used alone or integrated with other management approaches) or in aquatic ecology related to the biology or management of regionally or nationally recognized nuisance aquatic vegetation.

There were eight submissions for the 2018 GSRG. Eight judges, representing APMS and each of the seven APMS Chapters evaluated proposals and selected the project submitted by Greg M. Chorak and Ryan A.

### Outstanding Research / Technical Contribution

Dr. Scott Nissen of Colorado State University received the 2018 Outstanding Research / Technical Contribution Award. He is honored for his leadership and research related to uptake and translocation of aquatic herbicides and his ability to communicate this information to plant managers. He is also recognized for his scientific publication record, commitment to aquatics, and encouraging graduate students to participate in the field of aquatic plant management.



Scott Nissen receives the Outstanding Research / Technical Contribution Award from 2015 APMS President, Cody Gray

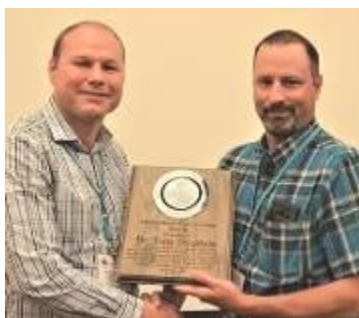
### Outstanding Journal Article

The Outstanding Journal Article Award is presented to an author (and co-authors), recognizing research published in the Journal of Aquatic Plant Management during the previous year that is unique and will further the science of aquatic plant management. The APMS Editor and Associate Editors vote on this award. A paper by Ryan A. Thum, *continued next page*

## 2018 APMS Award Presentations *(continued from page 4)*

Syndell Parks, James N. McNair, Pam Tying, Paul Hausler, Lindsay Chadderton, Andrew Tucker, and Anna Monfils from Montana State University was selected: *Survival and vegetative regrowth of Eurasian and hybrid watermilfoil following operational treatment with auxinic herbicides in Gun Lake, Michigan.*

### Outstanding International Contribution Award



Tony Dugdale (left) receives the Outstanding International Contribution Award presented by 2016 APMS President, Rob Richardson

Dr. Tony Dugdale of the Department of Economic Development, Melbourne, Australia, received the Outstanding International Contribution Award for developing numerous science-based approaches to managing noxious aquatic plants. He is also acknowledged for assembling a great team of researchers that continue to innovate aquatic plant management strategies.

### Max McCowen Friendship Award

Mr. John Gardner of Vertex Water Features in Pompano Beach, Florida received the 2018 Max McCowen Friendship Award. This award is a special recognition given to an APMS member whose demeanor and actions display sincerity and friendship in the spirit of being an ambassador for the APMS. Criteria include warmth and outgoing friendship, sincerity and genuine concern, gracious hospitality, and positive attitude.



John Gardner (left) receives the Max McCowen Friendship Award from Awards Committee Chair, Jay Ferrell

John has been a mentor and role model to numerous people in the aquatic plant

management industry for more than 41 years and has been a long-term contributor within APMS as well as the Florida APMS Chapter.

### T. Wayne Miller Distinguished Service Award

Dr. Tyler Koschnick of SePRO Corporation, Carmel, Indiana received the 2018 T. Wayne Miller Distinguished Service Award, presented to an individual to recognize "Service to the Society and the Profession." Tyler has been an APMS member since 1997, Serving on the Board and as President in 2012. He is a frequent advocate for science-based aquatic plant management and has always been an effective ambassador for the aquatic Plant Management Society.



Tyler Koschnick (left) receives the T. Wayne Miller Distinguished Service Award from Jay Ferrell (right)

### President's Award

Two President's Awards were presented in 2018. Ms. Sherry Whitaker was honored for her many years of service to APMS and Regional Chapters. She served on the APMS Board as Treasurer and has organized and worked the registration desk at the APMS Annual Meeting for many years. Sherry has also served the Midsouth APMS Chapter as President, Treasurer, Director and general caretaker.



Sherry Whitaker receives the President's Award from President John Rodgers

*continued next page*

## 2018 APMS Award Presentations *(continued from page 5)*

### President's Award

Dr. Robert Blackburn of Hastings, Florida received the President's Award for more than 50 years of scientific, organizational, and management contributions to aquatic plant control. He served on the APMS Board



*Robert Blackburn (left) receives the President's Award from President John Rodgers (right)*

during the Society's formative years as Director, Editor, Secretary-Treasurer and as President in 1968. As a USDA researcher, Dr. Blackburn developed products and pioneered aquatic plant management strategies that were applied for decades. Robert Blackburn is founder and President of Future Horizons, Inc., where he continues to solve water resource problems.

### Honorary Membership

Honorary Memberships were granted in 2018 to two long-term aquatic plant managers. Honorary Members must have been an APMS Member for at least 10 years, be retired from their major field, and have contributed significantly to APMS and aquatic plant control. Thirty-four Honorary Memberships have been bestowed in the 58-year history of APMS.

Mr. David Isaacs of Seymour, Indiana was awarded APMS Honorary Membership for his 40+ years of supporting aquatic plant research and operations in Indiana and throughout the Midwest. David is a 17-year member and former Director of APMS. He is a long-term member and supporter of the Midwest APMS Chapter. His insight, reasoning, and business sense made him a valuable resource during recent APMS strategic planning.



*David Isaacs celebrates his APMS Honorary Membership with wife Laurinda*

Dr. Vernon Vandiver of Gainesville, Florida received APMS Honorary Membership for more than 30 years of exemplary education and outreach efforts. Vernon dedicated his career to transferring new technologies, equipment, and herbicide products into instructional formats for program administrators and herbicide applicators. He developed training programs and strategies that increased professionalism and raised the standard of the entire aquatic plant management industry.



*Vernon Vandiver (left) receives Honorary Membership from Jay Ferrell*

*continued next page*

## 2018 APMS Award Presentations *(continued from page 6)*

### Other Presentations

Other acknowledgements given during the evening were Outstanding Non-Student Poster, presented to Patrick Goodwin of Vertex Water Features, and Exhibitor Excellence, presented to Jeff Suttner with Airmax, Inc.

### Outgoing Directors and the New Board

Outgoing Directors Dr. Brett Hartis of Tennessee Valley Authority and Dr. Ryan Thum of Montana State University were recognized for their three-year service on the APMS Board. Outgoing Student Director, Andrew Howell was also congratulated for his service on the Board during 2017-2018. The evening culminated with President, Dr. John Rodgers of Clemson University, transferring the ceremonial gavel to incoming President, Mr. Craig Aguillard of Winfield United, Villa Platte, Louisiana and introducing the 2018-2019 APMS Board of Directors.



*President John Rodgers (center) thanks outgoing Directors Brett Hartis (left) and Ryan Thum (right) for their service*



*Craig Aguillard (left) receives the Presidential gavel from John Rodgers (right)*



*2018-2019 APMS Board of Directors (left to right): Director Deborah Hofstra, President Craig Aguillard, Editor Jay Ferrell, Director Todd Olson, Director Amy Kay, Vice President Ryan Wersal, Treasurer Jeremy Slade, Director Amy Ferriter, President Elect Mark Heilman, Student Director Mirella Ortiz, Immediate Past President John Rodgers, Secretary Jeff Schardt, Director Scott Nissen (not in picture - Director Marc Bellaud)*

## 2018 Annual Meeting Sponsors

The APMS Annual Meeting is the most ambitious education and outreach event organized by the Society. This meeting would be impossible without the generous contributions of the Meeting Sponsors. We sincerely thank the following Sponsors for contributing to the 2018 Annual Meeting in Buffalo, New York.

### Platinum Level



**UPI**

Exton, Pennsylvania

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### Gold Level



**SePRO Corporation**

Carmel, Indiana



**Syngenta**

Greensboro, North Carolina

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### Silver Level



**Alligare, LLC**

Davidson, North Carolina



**Winfield United**

Ville Platte, Louisiana



**Helena Chemical Company**

Collierville, Tennessee

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### Bronze Level



**Brewer International**

Vero Beach, Florida



**Lonza**

Alpharetta, Georgia



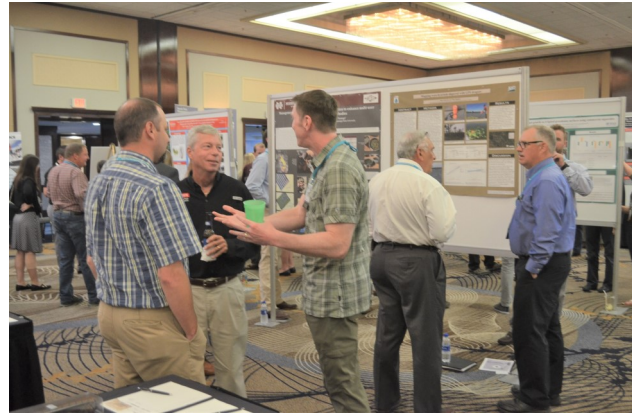
**Crop Production Services, Inc.**

Oviedo, Florida

## Scenes from the 58<sup>th</sup> APMS Annual Meeting



## Scenes from the 58<sup>th</sup> APMS Annual Meeting



## APMS Members Approve Individual Membership Dues Increase for 2019

The APMS membership unanimously approved a \$20 Individual Membership dues increase at the 2018 Annual Business Meeting in Buffalo, New York. Beginning January 1, 2019, APMS Individual Membership dues will increase from \$75 to \$95 per year, with 20% of these funds deposited into the APMS Scholastic Endowment Account.

APMS participated in strategic planning in January 2017. After soliciting comments from the APMS membership, the Board ratified the 2017-2021 APMS Strategic Plan in July 2017. A key action step under Goal 1 of the [Strategic Plan](#) is to create a stand-alone account and secure funding for a sustainable [Graduate Student Research Grant](#) (GSRG). The Board rec-

ommended revising the APMS Bylaws to restrict use of Scholastic Endowment Account funds to the GSRG only. A corresponding Bylaws amendment was approved unanimously by the APMS membership at the July 2018 Annual Business Meeting along with the \$20 increase in Individual Membership dues to help fund the GSRG. (see excerpt from the amended APMS Bylaws below).

This is the first dues increase since 2010. There are no dues increases for Student or Sustaining Members that will remain at \$20 and \$500 respectively. Fifty percent of Sustaining Membership dues and 20% of Individual Memberships will be deposited into the APMS Scholastic Endowment Account.

### ARTICLE XVI. SCHOLASTIC ENDOWMENT

**Section A. The Aquatic Plant Management Society Scholastic Endowment shall be used to fund the Aquatic Plant Management Society Graduate Student Research Grant program.**

**Section B. The Aquatic Plant Management Society Scholastic Endowment fund shall be maintained in a separate account, administrated by the Aquatic Plant Management Society Board of Directors, and shall be used in perpetuity solely to fund the Aquatic Plant Management Society Graduate Student Research Grant program. Payments shall be made to Graduate Student Research Grant recipients following recommendation by the Aquatic Plant Management Society Vice President and the Vice President's Graduate Student Research Grant Review Committee, with the approval of the Aquatic Plant Management Society Board of Directors.**

View the complete APMS Bylaws at: <http://www.apms.org/member-login/>

**There are three regular classes for APMS membership applicants. Dues amounts beginning in 2019 are:**

Membership Class	Annual Dues	Membership Privileges
Sustaining	\$500.00	Membership for one designated representative Subscription to the <a href="#">Journal of Aquatic Plant Management</a> APMS <a href="#">Newsletters</a> Quarterly issues of <a href="#">Aquatics</a> magazine Recognition as a Sustaining Member in Newsletters, the APMS website, and the Annual Meeting Program
Individual	\$95.00	Entitles member to vote, hold office, serve on committees, and receive the above publications.
Student	\$20.00	Full time students receive the same privileges as Individual members.

## Start Planning for the 59<sup>th</sup> Annual Meeting in San Diego, California



**Save the Date** and start planning now to attend the 59<sup>th</sup> Annual Meeting of the Aquatic Plant Management Society in southern California at the DoubleTree San Diego Mission Valley - July 14-17, 2019. The Meeting Planning Committee has negotiated a \$169 room rate for the conference.

The 59<sup>th</sup> Annual Meeting will be a joint gathering with the Western Chapter of the APMS. The Program Committee is already assembling sessions pertinent to western aquatic plant and water management issues as well as research and operational reports from across the country. Information will be presented in both oral and poster formats. Bring your students!

San Diego is known for its beautiful climate, beaches and parks, and the DoubleTree is in the center of it all. The trolley stop adjacent to the DoubleTree offers a ride to the city's top attractions including Old Town, Little Italy and Gaslamp Quarter. A pedestrian bridge links the hotel to Hazard Center's eclectic mix of shops and restaurants, and we are within walking distance of the famed Fashion Valley Mall.

The DoubleTree is about 15 minutes from the San Diego Airport. Attractions within 20 minutes of the DoubleTree are the San Diego Zoo (15 min.), Sea World (15 min.), Scripps Institute of Oceanography (20 min.), Torrey Pines Golf Course – site of the 2021 U.S. Open (20 min.), and Coronado Beach (25 min.)

Below is the link to reservations at the DoubleTree San Diego Mission Valley:

<https://book.passkey.com/go/APM2019ANNUALMEETING>

You can also book over the phone by calling (800) 222-TREE with the Group Code APM.

DoubleTree San Diego Mission Valley  
7450 Hazard Center Drive  
San Diego, CA, 92108

This should be a wonderful meeting, so plan to attend July 14-17, 2019. Bring your family and explore all San Diego and the surrounding area have to offer. More meeting information will be coming soon to the APMS website at [www.apms.org](http://www.apms.org) and in future Newsletters.



## 4<sup>th</sup> Annual Society of Lake Management Professionals Summit & Conference

**“Getting Better Together”  
January 22 – 24, 2019  
Memphis, Tennessee**

The Society of Lake Management Professionals (SLMP) will hold its Fourth Annual Summit at the Holiday Inn Downtown Memphis on January 22- 24, 2019. The program committee has developed an interactive diverse and educational agenda that includes interesting topics focused on:

**BUSINESS OWNERS  
TECHNICIANS  
VEGETATION MANAGEMENT  
BUSINESS OPERATIONS & GROWTH  
STORMWATER MANAGEMENT  
LAKE BEAUTIFICATION  
FISHERIES MANAGEMENT**

SLMP has secured a guest room rate of \$139 at the Holiday Inn for the summit and based on availability, you can take advantage of the same great rate three days before or after the summit to enjoy Memphis. You can easily reserve your guest room now at the link below:

[Society of Lake Management Professionals](http://lakeprofessionals.org/2019-summit-information/about/)

Reservations must be made by December 29, 2018 in order to receive this special rate.



Reservations are based on hotel availability.

Don't miss the opportunity to share ideas with top lake managers and register now for the Fourth Annual Society of Lake Management Professionals Summit using the link below:

<http://lakeprofessionals.org/2019-summit-information/about/>

## 38<sup>th</sup> International Symposium of the North American Lake Management Society

**“Innovations in Lake Management”  
October 30—November 2, 2018  
Cincinnati, Ohio**

The Ohio Lake Management and Indiana Lakes Management societies are excited to welcome NALMS to the Midwest's "Queen City," Cincinnati, Ohio. On the shores of the mighty Ohio, the river was impounded to serve modern navigation; those impoundments now function like a series of lakes.



Our region is bordered by the Great Lakes to the north, and our conference theme is well served by recent efforts to understand and mitigate western Lake Erie's press-grabbing eutrophication issues.

Proposed Symposium issues include:

*Monitoring Technologies, Autonomous Sampling, Remote Sensing, Large Data Sets, Toxins in Source Waters, Nutrient and Water-quality Management, Utilizing Citizen Science, Harmful Algal Blooms, Great Lakes, Interbasin Water Management, Combatting Invasive Species, Riverine Impoundments as Lakes, Environmental DNA, Geospatial Applications*

Open since 1931, the Hilton Cincinnati Netherland Plaza hotel is one of the world's finest examples of French Art Deco design. Take the hotel skywalk to various shops and restaurants and walk to the Duke Energy Convention Center.

Visit the NALMS web site:

<https://www.nalms.org/>

38<sup>th</sup> International Symposia information:

<https://www.nalms.org/nalms2018/>

## SCAPMS 2018 Annual Meeting

The 40<sup>th</sup> annual SCAPMS meeting was held in North Myrtle Beach just two weeks after hurricane Florence moved through the area. Attendance was on par with previous years, but sponsorship was the highest it has ever been. This is due to the efforts of JJ Ferris (Cygnets) who was recognized with the Member of the Year award.



JJ Ferris (right) receives the Member of the Year Award from Steve DeKozlowski

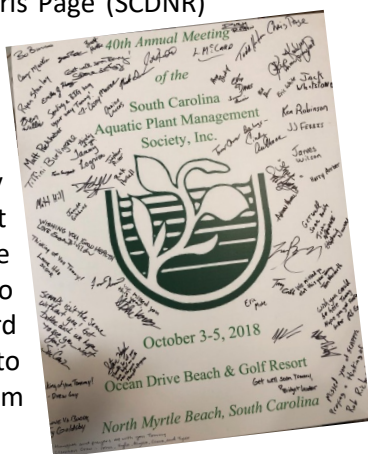
Ken Manuel (Duke Energy) was awarded Honorary Member and Steve Hoyle (NCSU) received the Distinguished Service Award. Five students representing Clemson, NCSU, and UGA competed in the student paper contest with Kara Folley (NCSU) winning 1<sup>st</sup>, Tyler Geer (Clemson) and Andrew Howell (NCSU) tied for 2<sup>nd</sup>



and Eric White (NCSU) and Amanda Howard (UGA) tied for 3<sup>rd</sup>. Amanda also won the Phillip M. Fields scholarship worth \$4,000. We had great attendance with our golf and off shore fishing outings which helped raise scholarship funds.

The gavel was passed from Ben Willis (SePRO) to Hugo Burbage (Santee Cooper) who will preside over the 2019 SCAPMS annual meeting to be held back in Myrtle Beach. Newly elected board members include Directors JJ Ferris and Chris Page (SCDNR) and Justin Nawrocki (UPI) as Vice-President.

Tommy Bowen, a pillar of the SCAPMS society could not be present at this year's meeting due to medical issues so members signed a card to honor his service to SCAPMS and to wish him well.



## Joint Texas Plant / Fishery Symposium

The Texas Chapter of the American Fisheries Society is hosting the Southern Division of the American Fisheries Society meeting in Galveston, TX on January 24-27, 2019. There will be symposium at this year's meeting on aquatic vegetation management organized by the Texas Aquatic Plant Management Society.



Aquatic vegetation management of both native and non-native species is a continuous task for resource managers. Traditional uses of biological, chemical, and mechanical methods are included in many Integrated Pest Management (IPM) plans. However, IPM plans can be costly and may take years to reach desired goals. Nuisance plants may become problematic again in a short time or provide a separate challenge with emergence of a new problem species.

New herbicides and biological control agents as well as the development of endocides and use of innovative herbicide combinations provide resource managers with new tools to control nuisance aquatic vegetation. Some of these tools along with adaptive management techniques are showing promise with the control of targeted, problem vegetation while protecting valuable aquatic habitat by limiting collateral damage to non-target species. The purpose of this symposium is to share information on new or future vegetation management tools and adaptive management techniques for resource managers to implement in controlling problematic aquatic vegetation.

We will be accepting abstracts for oral presentation through October 30, 2018. This symposium is limited to 20 presentations. Abstracts may be emailed to John Findeisen at:

[john.findeisen@tpwd.texas.gov](mailto:john.findeisen@tpwd.texas.gov)

Specifics about the symposium can be found below:

<https://fisheries.org/events/southern-division-meeting/>

## Washington Report—Lee Van Wychen, WSSA Executive Director of Science Policy

### FY 2019 Energy-Water Spending Bill Enacted

There will be no threat of a government shutdown for the Army Corp of Engineers (ACOE) this fall as the President signed a "minibus" appropriations package on September 21 that funds programs for Energy & Water, Legislative Branch, and Military Construction & Veterans Affairs for FY 2019. This marks the first time in many years that ACOE will have their budget approved in time for the next fiscal year, which begins on Oct. 1. The other 9 spending bills are in various stages of completion and will be funded under a Continuing Resolution at FY 2018 levels through December 7.

Included in the Energy and Water appropriations bill is \$6 million in funding for the ACOE Aquatic Plant Control Program. \$1 million "shall be for activities for the control of the flowering rush" and \$5 million "shall be for nationwide research and development to address invasive aquatic plants." There is also \$6 million in funding for the watercraft inspection stations in the Pacific Northwest.

### Farm Bureau Seeks National WOTUS Injunction

The American Farm Bureau Federation and other business groups are asking a Georgia district court for a nationwide injunction on the Obama administration's Waters of the United States (WOTUS) rule. There is a shifting patchwork of states where the 2015 WOTUS Rule is currently at play. As of September 28, there are 22 states plus the District of Columbia not covered by one of three different district courts' injunctions (federal courts in North Dakota, Georgia, and Texas). States not covered by a stay of 2015 WOTUS rule are: CA, CT, DE, HI, IL, ME, MD, MA, MI, MN, NH, NJ, NY, OH, OK, OR, PA, RI, TN, VT, VA, WA

### 2018 Water Infrastructure Bill Nears Finish Line

The Senate is expected to pass and send to the president for signature a compromise measure for the 2018 Water Resources Development Act, S. 3021. There is no change to existing authority that authorizes up to \$20 million annually for the ACOE Aquatic Plant Control Program. However, there are some additional stipulations:

*(a) IN GENERAL.—As part of the ongoing activities of the Engineer Research and Development Center to address the spread and impacts of aquatic invasive species, the Secretary shall undertake research on the management and eradication of aquatic invasive species, including Asian carp and zebra mussels.*

*(b) LOCATIONS.—In carrying out subsection (a), the Secretary shall work with Corps of Engineers district offices representing diverse geographical regions of the continental United States that are impacted by aquatic invasive species, such as the Atlantic, Pacific, and Gulf coasts and the Great Lakes.*

*(c) REPORT.—Not later than 180 days after the date of enactment of this section, the Secretary shall submit to the Committee on Transportation and Infrastructure of the House of Representatives and the Committee on Environment and Public Works of the Senate a report recommending a plan to address the spread and impacts of aquatic invasive species.*

There is language in the bill directing ACOE to conduct a "Harmful Algal Bloom Technology Demonstration":

*(a) IN GENERAL.—The Secretary, acting through the Engineer Research and Development Center, shall implement a 5-year harmful algal bloom technology development demonstration program under the Aquatic Nuisance Research Program. To the extent practicable, the Secretary shall support research that will identify and develop improved strategies for early detection, prevention, and management techniques and procedures to reduce the occurrence and effects of harmful algal blooms in the Nation's water resources.*

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Finally, the bill widely expands funding and jurisdictions for watercraft inspection stations for invasive species management. Existing law authorizes up to \$20 million per year for watercraft inspection stations on the Columbia River basin. The new compromise legislation would authorize up to \$30 million per year for the Columbia River basin, plus add \$30 million per year for both the “Upper Missouri River Basin” and the “Upper Colorado River Basin and the South Platte and Arizona River Basins”.

### **Congress Punts Farm Bill Until After the Elections**

The Farm Bill conference committee composed of 47 House members and 9 Senators, could not reach agreement on a compromise between the House- and Senate-passed Farm Bills before the House adjourned on September 28. The House is scheduled to return to business on November 13, a week after the midterm elections.

There are parts of the House bill and parts of the Senate bill that we’d like to see make it into the final conference agreement. For the House bill, this includes a legislative fix for the duplicative National Pollutant Discharge Elimination System (NPDES) program permits, a Congressional repeal of the 2015 Waters of the United States (WOTUS) rule, legislative guidance to streamline the FIFRA-Endangered Species Act consultation process, and reauthorization of the Pesticide Registration Improvement Act (PRIA). A provision in the Senate bill we’d like to see passed that is not in the House bill is the reauthorization for the Foundation for Food and Agriculture Research (FFAR).

### **Hutchins Nominated as USDA Chief Scientist**



Dr. Scott Hutchins, the Global Head of Integrated Field Sciences for Corteva was nominated by the White House on July 16 for the role of USDA Under Secretary for Research, Education and Economics, which is also referred to as USDA’s Chief Scientist. If confirmed by the Senate, he will oversee the operations of ARS, NIFA, ERS and NASS. Hutchins has a Ph.D. in entomology from Iowa State University, where he studied the effect of insect-induced injury on alfalfa. Hutchins has bachelor’s degree in entomology from Auburn University and a master’s degree from Mississippi State University. Presently, he works on pest control chemicals at Corteva and is an adjunct professor at the University of Nebraska. He is a past President of the Entomological Society of America.

### **Angle Nominated as USDA NIFA Director**



The White House nominated Dr. J. Scott Angle to be Director of the National Institute of Food and Agriculture (NIFA) at USDA on August 31. Dr. Angle is currently President and CEO of the International Fertilizer Development Center (IFDC). He worked for 24 years as a professor of soil science and administrator for the Maryland Agricultural Experiment Station and Maryland Cooperative Extension at the University of Maryland. He also served as Dean and Director of the College of Agricultural and Environmental Sciences at the University of Georgia for 10 years. He is a Fellow at the American Society of Agronomy and the Soil Science Society of America. Dr. Angle earned his Ph.D. in soil microbiology

from the University of Missouri.

### **USDA NIFA, ERS Moving from DC**

On August 9, USDA announced that the National Institute of Food and Agriculture (NIFA) and Economic Research Service (ERS) will be moving from D.C. While the new location for the agencies has yet to be determined, the timeframe for the move is expected to occur by the end of 2019. USDA said it was under-

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taking the relocations for three main reasons:

- To improve USDA's ability to attract and retain highly qualified staff with training and interests in agriculture, many of whom come from land-grant universities. USDA has experienced significant turnover in these positions, and it has been difficult to recruit employees to the Washington, DC area, particularly given the high cost of living and long commutes.
- To place these important USDA resources closer to many of stakeholders, most of whom live and work far from the Washington, DC area.
- To benefit the American taxpayers. There will be significant savings on employment costs and rent, which will allow more employees to be retained in the long run, even in the face of tightening budgets.

USDA's announcement of intent to move the agencies has garnered concerns from the ag research community, including WSSA. Some of our concerns about moving NIFA out of the National Capitol Region (NCR) include:

- Isolating NIFA from stakeholders (commodity groups, agricultural leaders, university administrators, academic scientists). Stakeholder leaders routinely travel to the NCR to meet with legislators and many other agencies. If NIFA is located outside the NCR, it will become more difficult for many stakeholders to visit NIFA, and many stakeholders would incur additional travel expenses and inconvenience to do so, making these trips less frequent. How does USDA envision maintaining strong stakeholder input?
- Isolating NIFA from other research agencies (i.e. NSF, DOE). Increased inter-agency collaboration is needed in order to address the major scientific challenges facing agriculture. For example, herbicide-resistant weeds can now be found on over 100 million acres in the U.S. New technologies like robotics with computer vision and machine learning algorithms for intelligent weed removal are likely to play a role in addressing this challenge. Innovations like these will require transdisciplinary research in agriculture, engineering and computer sciences. How does USDA envision strengthening these needed collaborations if NIFA is located outside the NCR?
- Loss of NIFA personnel who are unable to move will likely disrupt productivity and take considerable time to fully re-staff. How long does USDA anticipate it will take to build back to full staffing? How will USDA assure program continuity and minimize disruption during this transitional period?
- Potential conflict of interest with land grant universities near the new location. For example, would a NIFA location in Missouri favor grants to agricultural commodities prevalent in Missouri?



### **Vela Nominated as NPS Director**

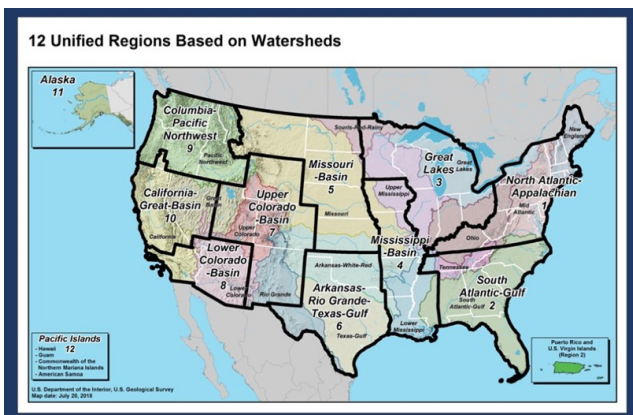
The White House nominated David Vela to be the Director of the National Park Service (NPS) at the Department of Interior (DOI) on August 31. Mr. Vela has worked at NPS for 28 years and currently serves as the Superintendent of Grand Teton National Park and the John D. Rockefeller, Jr. Memorial Parkway. He has held various park postings within NPS, including at San Antonio Missions National Historical Park, Lyndon B. Johnson National Historical Park, and the George Washington Memorial Parkway. He has also served as Director of the NPS' Southeast Region and Associate Director for Workforce, Relevancy, and Inclusion in the NPS headquarters in Washington, DC. Mr. Vela has a B.S. in recreation and parks from Texas A&M University.

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### Interior Rolls Out Reorganization Plan

On August 29, Interior Secretary Ryan Zinke announced the Department of the Interior's (DOI) plan to reorganize its bureaus into 12 "unified regions." The proposed management re-design establishes new regional divisions based on the boundaries of states and watersheds (see map).



The proposal has been under development for several months. "Our new Unified Regions will allow important decisions to be made nearer to where our stakeholders and intergovernmental partners live and work, and will make joint problem-solving and improved coordination between our Bureau and other Federal, State, and local agencies easier," stated Secretary Zinke.

The 12 unified regions will replace the 49 individual Interior Bureau regional boundaries. Secretary Zinke said the reorganization will "reduce bureaucratic redundancy, will improve communication between our experts in the field and leaders in Washington, D.C., and will allow us to share our knowledge and resources more effectively."

Each new region will be managed under a "Regional Leadership Team", an idea outlined by Susan Combs, acting Assistant Secretary for Policy, Management and Budget for DOI. Combs described Alaska as a model for operations under the reorganization plan. "We started with a pilot in Alaska, because it's one state that has all the bureaus, it already has a legislative framework that requires federal and state agencies to work together," said Combs. "So, they are working away on inter-bureau collaboration."

The plan applies to all Interior agencies, except the Bureau of Indian Affairs, the Office of the Special Trustee for American Indians, and the Bureau of Indian Education. Whether these agencies are eventually aligned with the new regional boundaries will be determined after tribal consultation.

### APHIS PPQ Changing Plant Inspection Frequency

On September 30, 2018, APHIS' Plant Protection and Quarantine (PPQ) officials will adjust its inspection procedures and start selecting samples from incoming shipments of live plants based on pest risk. Since 2016, PPQ has been collecting pest interception data on incoming shipments to determine the pest risks associated with country of origin and the type of propagative materials, such as rooted plants, plant cuttings or tissue cultures. Using this data, PPQ will adjust sampling rates at its Plant Inspection Stations to better protect the U.S. against the introduction and spread of damaging plant pests and diseases.

Importers may notice changes in the number of samples selected for inspection at Plant Inspection Stations. For example, PPQ officers may pull fewer samples when inspecting commodities from countries that consistently have few or no pest problems. When inspecting commodities from countries that have more frequent pest problems, officers may pull more samples. When PPQ does not have sufficient risk data about a plant commodity, PPQ officers will sample at the highest rate until they collect enough data to make a statistically sound decision about its risk level.

Lee Van Wychen, Ph.D.  
Executive Director of Science Policy  
National and Regional Weed Science Societies  
Lee.VanWychen@wssa.net

## APMS Sustaining Membership

The Aquatic Plant Management Society is grateful for our Sustaining Members whose generous annual contributions sponsor our most important core values, especially education and outreach initiatives. Sustaining Membership costs \$500 and includes all membership privileges for one designated representative; subscription to the [Journal of Aquatic Plant Management](#), [APMS Newsletters](#), and access to

social media content; quarterly issues of [Aquatics](#) magazine; recognition as a [Sustaining Member](#) in Newsletters, the Annual Meeting Program, and on the APMS website. Please read about APMS Sustaining Members and learn more about them by visiting their websites.

Please join APMS as a Sustaining Member at [apms.org/society/membership/](http://apms.org/society/membership/)

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- Syngenta
- UPI
- Vertex Water Features

## APMS Chapter and Related Meetings

Date	Meeting	Location
<b>2018</b>		
October 3-5	<a href="#">South Carolina Aquatic Plant Management Society</a>	Myrtle Beach, South Carolina
October 15-18	<a href="#">Florida Aquatic Plant Management Society</a>	Daytona Beach, Florida
Oct 30 - Nov 2	<a href="#">North American Lake Management Society</a>	Cincinnati, Ohio
November 5-7	<a href="#">MidSouth Aquatic Plant Management Society</a>	Chattanooga, Tennessee
November 26-27	<a href="#">Texas Aquatic Plant Management Society</a>	San Antonio, Texas
<b>2019</b>		
January 8-10	<a href="#">Northeast Aquatic Plant Management Society</a>	Albany, New York
February 11-14	<a href="#">Weed Science Society of America</a>	New Orleans, Louisiana
February 25-28	<a href="#">Midwest Aquatic Plant Management Society</a>	Chicago, Illinois
July 14-17	<a href="#">Western Aquatic Plant Management Society</a>	San Diego, California
<b>Joint Meeting WAPMS &amp; APMS</b>		
July 14-17	<a href="#">Aquatic Plant Management Society</a>	San Diego, California
Sep 29 - Oct 3	<a href="#">American Fisheries Society</a>	Reno, Nevada

## 2018-2019 APMS Officers, Directors, Committee Chairs, and Special Representatives

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Exhibits	Dean Jones	860-514-6934	University of Florida
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Legislative	Rob Richardson	919-515-5653	North Carolina State University
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Website	Chris Mudge	225-578-1208	U.S. Army Corps of Engineers
	Ken Manuel	980-875-5424	Duke Energy Carolinas

<u>Special Representative</u>	<u>Name</u>	<u>Telephone</u>	<u>Affiliation</u>
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## ***The Aquatic Plant Management Society, Inc.***

The Aquatic Plant Management Society, Inc. is an international organization of scientists, educators, students, commercial pesticide applicators, administrators, and concerned individuals interested in the management and study of aquatic plants and algae. The membership reflects a diversity of federal, state, and local agencies, universities and colleges around the world, corporations, and small businesses.

### ***Vision***

The Vision of the Aquatic Plant Management Society is to be the leading international organization for scientific information on aquatic plant and algae management.

### ***Mission***

The Mission of the Aquatic Plant Management Society is to provide a forum for the discovery and dissemination of scientific information that advances aquatic plant and algae management policy and practice.

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Members can renew membership for 2019 at the

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