

Aquatic Plant News

The Newsletter of the Aquatic Plant Management Society, Inc.
7922 NW 71st Street, Gainesville, FL 32653
Jeffrey D. Schardt, Newsletter Editor

Issue 114

March 2017

APMS Annual Meeting Returns to Florida

July 16-19, 2017

Hilton Daytona Beach Resort Ocean Walk Village



One visitor recently described the Hilton Daytona Beach Ocean Walk Resort as an “absolutely great place to have a meeting”. Behind the hotel, you’ll find the historic Daytona Beach Bandshell offering outdoor concerts and fireworks every Saturday. With the “World’s Most Famous Beach” just out the back door, the Ocean Walk Shoppes next to the hotel, an amusement park next door, water park across the street, and the countless restaurants within walking distance, you surely do not want to miss the 57th annual meeting of the Aquatic Plant Management Society. The entire hotel and conference center is being renovated as you read this note and will be completed by April 1.

This year, the Society will extend the meeting by a half day going to a three full

day format. The technical program will begin Monday morning and end before

Inside this Issue:

- 1 Annual Meeting Information**
- 3 Meeting Registration Form**
- 4 Call for Papers - Abstract Instructions**
- 6 Student Presentation Incentives**
- 7 Guest Tour - Sponsor/Exhibitor Forms**
- 8 SCAPMS Scholarship Award**
- 8 APMS Strategic Planning**
- 9 Starry Stonewort Request for Proposals**
- 10 Central Florida Tourism Ideas**
- 12 Washington Report**
- 17 Sustaining Membership**
 - APMS Chapter/Related Meeting Dates**
- 18 Officers, Directors, Committee Chairs, Special Representatives**
- 19 APMS Background and Mission**
 - Join / Renew Membership**

We're on the Web!
apms.org

Register Now for the 57th APMS Annual Meeting

5:00 pm on Wednesday. Our meeting will kick off with the President's Reception on Sunday evening at the famous Mai Tai Restaurant on the beach adjacent to the hotel. Casual dress is highly recommended. As the official welcoming event of the meeting, this reception is an excellent time to reacquaint with old friends, meet new friends, and just relax. Heavy hors d'oeuvres and your favorite beverages will be served. The Monday evening Poster Session and Reception presents a great opportunity to examine posters and exhibits while enjoying great food and beverage.

The APMS Reception and Awards Banquet on Tuesday evening will be another memorable event where we will recognize those who have served and contributed to our Society, welcome new officers and directors, and present student paper and other awards. These special events are open to all registered delegates, students, and guests. Non-registered guests may purchase individual tickets for these events at the registration desk.

Below is the link to reservations at the Hilton Daytona Beach:

http://www.hilton.com/en/hi/groups/personalized/D/DABDHF-APMS17-20170715/index.jhtml?WT.mc_id=POG

Reservations - Toll Free: (866) 536-8477
Reservations - Local Phone: (386) 254-8200

Please make your reservations early. Last year, we filled our room block at the host hotel one month before the meeting. When making your reservations by phone, be sure to mention that you are part of the Aquatic Plant Management Society. The cutoff date for reservations at the special group rate is June 24, 2017. Our special APMS guest room rate is \$139.00 for single and double occupancy per night plus applicable tax. These group rates are available three days prior to the conference and three days post conference subject to availability.

The Hilton Daytona Beach requires that all reservations be guaranteed with a major credit card or a deposit. Check in time is 4:00 pm and checkout time is 12:00 pm. If you choose to depart earlier than your reserved departure date, the hotel will charge one night room and tax.

The APMS Board continues a concerted effort to keep registration costs at a reasonable level. Registration fees this year are \$300.00 for a delegate and \$130.00 for a guest (spouse, partner, child over 12 years of age) if received by June 16, 2017. After this date, registration fees at the door will be \$375.00 for a delegate and \$155.00 for a guest. The meeting registration fee for a student competing in the student paper contest (oral or poster) is waived and the registration fee for a student not competing is \$75.00. Delegate and student registration includes all technical sessions, President's Reception, refreshment breaks, Poster Reception, and Awards Reception and Banquet. Guest registration includes President's Reception, refreshment breaks, Guest Tour, Poster Reception, and Awards Reception and Banquet. Non-registered guests may purchase individual tickets for these events.

This year's meeting may be one of the largest on record, so we want to make sure we give accurate attendance numbers to prepare for meeting events. We ask that family or guests who plan to attend APMS functions like the Banquet, President's Reception, Guest Tour, or Poster Reception please make sure to register for these events. You can also register for them with a single guest registration which includes all of the events.

The Hilton is a 15 minute drive from the Daytona Beach International Airport and is accessible by taxi, limousine, rental car or Uber. A typical taxi fee is \$25 one way, an Uber about \$15. Complimentary self-parking is available to all attendees of the conference.

57th Annual Meeting of the APMS Registration Form

Delegate/Student/Guest Information

Last Name: _____ First Name: _____ M.I: _____
 Affiliation: _____
 Address: _____
 City: _____ State/Province: _____ Zip/Postal Code: _____
 Country: _____ E-mail Address: _____
 Phone: _____ Fax: _____

Registration *(Includes Refreshment Breaks, President's Reception, Poster Reception, and Banquet)*

	Early <i>(by June 16, 2017)</i>	On-site	
<input type="checkbox"/> Delegate Registration	\$ 300.00	\$ 375.00	\$ _____
<input type="checkbox"/> Student Paper Competition Registration	\$ 0.00	\$ 0.00	\$ 0.00
<input type="checkbox"/> Regular Student Registration (non-competing)	\$ 75.00	\$ 75.00	\$ _____
<input type="checkbox"/> Guest Registration (spouse, partner, child over 12 years-of-age) <i>(also includes the Guest Tour)</i>	\$ 130.00	\$ 155.00	\$ _____
Name(s): _____			
<input type="checkbox"/> One-day Meeting Registration <i>(includes refreshment breaks on day of attendance only)</i>	\$ 100.00	\$ 100.00	\$ _____
Day of Attendance: _____			

Individual Special Event Tickets for Non-registered Guests

<input type="checkbox"/> President's Reception	Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Guest Tour	Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Poster Reception	Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Banquet	Name(s): _____	\$ 55.00	\$ 65.00	\$ _____

Membership Dues (2017)

<input type="checkbox"/> Individual	\$ 75.00	\$ _____
<input type="checkbox"/> Student	\$ 20.00	\$ _____
<input type="checkbox"/> Sustaining	\$500.00	\$ _____

Total Payment Amount: \$ _____

Payment Method (Check One)

Check *(Make Payable to APMS, Inc.)* Credit Card: Visa Master Card American Express

Credit Card Number: _____ Expiration Date: _____

Name as it Appears on Card: _____ Signature of Card Holder: _____

Send Completed Form and Payment to:

The Aquatic Plant Management Society, Inc.
7922 NW 71st Street
Gainesville, FL 32653
Fax: 352-392-3462

Early registration accepted if form and payment received by June 16, 2017. Registration questions, please phone: 662-617-4571 or E-mail: APMS14@Hotmail.com

Cancellation/Refund Policy: Registration fees are fully refundable prior to June 30, 2017, less a \$25.00 processing and handling fee. No refund of any fees will be issued if cancellation of participation is received after June 30, 2017. Notice of cancellation must be received by APMS via mail, fax, or e-mail. **Phone cancellations will not be accepted.**

Call for Papers—2017 APMS Annual Meeting

Present Your Original Research

You are invited to submit a title and abstract for the 57th Annual Meeting of the Aquatic Plant Management Society to be held July 16-19, 2017, at the Hilton Daytona Beach Resort/Ocean Walk Village in Daytona Beach, Florida. Both oral and poster presentations are solicited for original research on the biology or ecology of aquatic and wetland plants, control methods (biological, chemical, cultural, mechanical) for invasive, exotic or nuisance plant or algal species, and restoration projects involving wetland or aquatic plants and algae.

Presentation of original research will be given preference, and should be indicated by including results in the abstract. This year's meeting is in the region of the Florida Aquatic Plant Management Society, so regional presenters are strongly encouraged to submit an abstract.

Student Incentives

The Society also invites student abstracts for oral or poster presentations. This meeting presents an opportunity for students to network with key government, university and industry representatives, and peers with similar educational and professional interests. The society will provide all student presenters with room accommodations and complimentary registration. First, 2nd, and 3rd place prize money will be awarded in separate contests for both oral and poster presentations. In addition, all students are invited to attend a hands-on tour of aquatic plant management activities on Lake Toho in central Florida beginning Thursday morning following the meeting. Students may contact the APMS Student Affairs Committee Chair, Dr. Chris Mudge, with any questions at CMudge@agcenter.lsu.edu.

Interactive Presentation Format

Oral presentations will be allotted a total of 15 minutes with an additional five minutes for questions and discussion. Contributed oral presentations should be scientific or technical in nature, which will be determined from the submitted abstract. An LCD projector/computer and laser pointer will be available for oral presentations. Only PC-based PowerPoint presentations will be accepted. All presenters will be required to upload their final PowerPoint presentation to the abstract submission portal prior to the meeting. Note: All presentations that include externally run programs, models or special animation, must be reviewed and approved by the Program Chair prior to the meeting. You will not be allowed to set up a personal computer for your presentation.

A 90-minute poster reception is scheduled for Monday, July 17. Poster presenters discuss their research with attendees while enjoying hors d'oeuvres and beverages. Free-standing display boards (4' x 4') will be provided for posters.

Please submit your information online on the WSSA Title and Abstract Submission System at <https://wssaabstracts.com/>. Instructions for abstract submittal are on the following page in this Newsletter. Acceptance of contributed papers will not occur until after the abstract deadline, and will be confirmed by a separate e-mail.

The WSSA Title and Abstract Submission System is now active and will remain open until April 30, 2017.

<https://wssaabstracts.com/>

Navigating the WSSA Title and Abstract Submission System



The Aquatic Plant Management Society uses the Weed Science Society of America (WSSA) Title and Abstract Submission System, available at www.wssaabstracts.com.

Logging in to the WSSA System

If you have used this system before, enter your e-mail address and password to sign on to the system. If you cannot remember your password, there is a link on the right hand side to reset the password.

If you do not have an account with the WSSA abstract submission system, you can create a new account with a link on the right hand side of the webpage. Click on the “Setup New Account” link, and add your e-mail address (as the login), your name and affiliation, and contact phone number.

Once you are logged in, click “Join a Conference” to access the **2017 Aquatic Plant Management Society** meeting. Click “Enter” then “My Titles and Abstracts” to submit your information. Follow instructions to enter a title and abstract.

Entering a Title and Abstract

To enter a new title and abstract, click on the link on the left hand side of the 2017 Aquatic Plant Management Society conference webpage, “My Titles and Abstracts.” Then click on “Add New Title / Abstract.” Type in the title capitalizing key words (e.g., Response of Eurasian and Hybrid Watermilfoil to Five Auxin-mimic Herbicides). Please do not submit your title in bold typeface or all caps. Just capitalize the major words in the title.

Student Competition Presenters

Indicate whether or not you are a student and if you are planning on being judged in the poster or oral presentation contest. There are no sections to the APMS conference.

Program Information Format

Be sure to add the full names and contact information of all authors. Please be sure to enter all authors in the correct order, the author’s university or business entity, department, home city and state as you want these to appear in the program. Type the text of your abstract into the abstract box. It is probably easiest to type this in a word processor file, and copy and paste the abstract text into the abstract text box. Please limit your abstract to 300 words.

Title and Abstract Submittal Deadlines

Abstracts must be submitted on the WSSA abstract system. Do not e-mail these to the Program Chair and expect to be included in the program.

The deadline for title and abstract submission is April 30, 2017. Please do not wait until the last minute. Abstracts will be accepted for oral presentations on a first come, first served basis. Poster presentations will also be accepted on a first come, first served basis. PowerPoint presentations for oral presentations should be uploaded to the WSSA Abstract Submission site no later than July 10, 2017.

If you have any questions, please contact:

Dr. John Rodgers
2017 APMS Program Chair
jrodger@clemson.edu



APMS Student Presentation Contests and Incentives for the July 2017 Meeting

The Aquatic Plant Management Society (APMS) is inviting student presentations for the upcoming 57th Annual Meeting. The meeting will be held July 16-19, 2017 at the Hilton Daytona Beach Resort, Ocean Walk Village in Daytona Beach, Florida.

Oral and Poster Presentations

Oral and poster presentations of original research are solicited on the biology or ecology of aquatic and wetland plants, harmful algal blooms, control methods (biological, chemical, cultural, mechanical) for invasive exotic or nuisance native plant species, and restoration projects involving wetland or aquatic plants. We had outstanding participation at the 2016 Annual Meeting in Grand Rapids, Michigan with 21 student presenters from six different universities and we hope to have strong student attendance and participation again this year.

Student Incentives

The APMS has a strong ethic of student support. This meeting provides an opportunity for students to develop their presentation skills, learn about the field of aquatic plant management, and network with key government, university and industry representatives and peers with similar educational and professional interests. The Poster Reception on Monday evening is a good opportunity for students to interact directly with meeting delegates. Authors present their research in a personal, face-to-face format during the 90 minute food and beverage reception, to university instructors as well as government administrators and industry reps.

The society will provide all student presenters with complimentary room accommodations and meeting registration. First, 2nd, and 3rd place prize money will be awarded in separate contests for both oral and poster presentations. Due to the limited number of spots available in the program, the society encourages students to consider presenting a poster, especially for those students that have given oral presentations at previous meetings.

During the conference, the Student Affairs

Luncheon will be held on Monday for all registered students to network with other attendees. Guest speakers answer questions and provide insight to career opportunities.

Following the conference, all students are invited to attend a hands-on tour of aquatic plant control on Lake Toho, south of Orlando. APMS will provide transportation for students who will travel with Drs. Bill Haller of UF and Chris Mudge of LSU, leaving the Hilton at 7:00 am on Thursday morning. Students will interact with plant, fishery, and water resource managers responsible for managing invasive plants in one of Florida's most complex multiple use waterbodies. Herbicides, harvesters, biocontrols, and water level manipulation are integrated to manage invasive plants like hydrilla, water hyacinth, and ludwigia to conserve attributes like flood control and navigation as well as endangered Everglades Kite habitat. Lake Toho is also a destination for world-class fishing and ecotourism. The tour will conclude early Thursday afternoon dropping students at the Orlando airport at about 2:00 pm for flights home.

Please log on to www.apms.org to learn more about the Aquatic Plant Management Society and this year's meeting. Students may register and submit an abstract by following the instructions under the "Annual Meeting" link.

The submission deadline for Title and Abstract submission is April 30, 2017.

For more information please contact:
 Christopher Mudge, PhD
 APMS Student Affairs Committee Chair
 U.S. Army Engineer Research & Development Center
 108 Sturgis Hall
 Baton Rouge, LA 70803
 225-578-1208

Christopher.R.Mudge@usace.army.mil
 or
CMudge@agcenter.lsu.edu

Explore Historic St. Augustine during the APMS Guest Tour

A Day in History....

Start your journey into St. Augustine with a most unusual beginning- pick up a hitchhiker! Don't be alarmed if your driver pulls over to allow this disoriented stranger to board the coach with all of your shocked participants! It's only crazy Ida Alice Shourd Flagler – the oil and hotel baron's second wife! Through the eyes of this colorful woman, you'll learn much about the area and its history as well as all the dirt on Mr. Flagler, of course!



Once in St. Augustine, the bus tour will continue as guests will have a chance to learn about the history and sites of St. Augustine. From Mission of Nombre de Dios, Castillo de San Marcos, Flagler College, Fountain of Youth and the Lightner Museum, guests will be wowed by amazing history and architecture within the Ancient City. Once the bus tour is complete, guests will be guided to dine at a



Lunch at the Columbia on St. George Street

delicious Spanish inspired restaurant, the famous Columbia, with wonderful offerings in a semi-private style. After lunch, the group will enjoy free time exploring St. Augustine for all it has to offer in shopping, unique boutiques, bars, restaurants, sweet treats, park sitting, and more! Guests will be given maps of the city to help in their adventure.

Round trip bus transportation from the Hilton Ocean Walk to St. Augustine will be provided with guests picked up at the Hilton South Tower Valet entrance at 9:00 am and return to the hotel by 4:00 pm. We only have 24 seats, so register as soon as possible if you will be attending.

Annual Meeting Sponsors and Exhibitors

Would you like to be a Meeting Sponsor and assist APMS in conducting an informative and successful meeting? Would you like to exhibit your products or services enhancing scientific and operational advancement of aquatic plant management? Information on Sponsorship and Exhibits at the annual meeting is available on the APMS website (www.apms.org) or contact Dean Jones (phone: 863-956-8730, email: kdjones@ufl.edu).

Sponsors: Sponsors are essential to the success of the Annual Meeting. After meeting with sponsors and conference attendees, APMS recently revised the benefits for the various sponsorship levels to acknowledge and show appreciation to Sponsors for their contributions. Please see the following link ([APMS Sponsorship](#)) for a complete list of benefits for each Annual Meeting Sponsorship Level.

Exhibitors: The Annual Meeting provides an excellent forum to exhibit products and services and interact with key people involved in aquatic plant management across the country. The Exhibit Hall is also the site of daily continental breakfasts and refreshment breaks as well as the Monday evening Poster Reception to increase interactions and discussion among Exhibitors and meeting attendees.

SCAPMS 2017 Scholarship Award

The South Carolina Aquatic Plant Management Society (SCAPMS) is seeking applications for its annual Phillip M. Fields Scholarship Award. The Society intends to award a \$4,000 scholarship to the successful applicant in the fall of 2017.

Scholarship funds may be used by the recipient to cover costs associated with education and research expenses. Eligible applicants must be enrolled as full time undergraduate or graduate students in an accredited college or university in the United States. Course work or research in an area related to the biology, ecology or management of aquatic plants in the Southeast is also required.

Applications must be received no later than June 1, 2017 and will be evaluated on the basis of relevant test scores (ACT, SAT, GRE, etc.), college grades, quality and relevance of course work or research, a proposed budget, information obtained from references, and other related considerations.

Other factors being equal, preference will be given to applicants enrolled in Southeastern and South Carolina academic institutions. The successful applicant may be requested to present an oral report on research activities at the annual meeting of the Society.

Application forms and additional information are available at www.scapms.org/scholarship.html.

Note: All application information is to be submitted electronically.

SOUTH CAROLINA AQUATIC PLANT MANAGEMENT SOCIETY

Steven J. de Kozlowski
Chair, Scholarship Committee
SCAPMS
207 Canterfield Road
Columbia, SC 29212
803-600-7538
sdekoz2@gmail.com



APMS Undertakes Strategic Planning

On January 24, 2017, the APMS Board participated in a day-long strategic planning session. Seven APMS Past Presidents and key Committee Chairs joined the event, facilitated by Dr. Ed Osborne of the University of Florida, in Daytona Beach on the day prior to the APMS Midyear BOD Meeting.

APMS participates in Strategic Planning every five years. Objectives of this session included:

- revise the Society's vision and mission statements to address new challenges facing aquatic plant and resource managers;
- address long-term Society fiscal stability;
- design and implement a broad marketing and outreach plan;
- increase APMS membership and annual meeting attendance;
- enhance sustainability by sponsoring student initiatives and stimulating increased job opportunities in the field.



The APMS Board will also be asking Society Members to review and provide input to the draft Strategic Plan. The Strategic Planning Committee has developed a timeline for review of the draft Strategic Plan and ratification by the APMS Board of Directors prior to the Annual Meeting to be held in Daytona Beach on July 17, 2017. The timeline is addressed below:

- Mar 15 - Strategic Planning Committee reviews draft submitted by Dr. Osborne
- Apr 15 - Incorporate comments and circulate for final review
- May 15 - Forward revised draft to general membership for comments
- Jun 15 - Incorporate general membership comments into final document
- Jul 16 - Ratify Strategic Plan at Board meeting

APMS Announces Starry Stonewort Joint Request for Proposals



THE AQUATIC PLANT MANAGEMENT SOCIETY, Inc.

7922 NW 71st Street
Gainesville, FL 32653
www.apms.org

ANNOUNCEMENT

APMS GRADUATE STUDENT RESEARCH GRANT 2017

A graduate student research grant on the biology, ecology, and management of starry stonewort (*Nitellopsis obtusa*) is being offered by the Aquatic Plant Management Society's research and education initiative, in cooperation with the Aquatic Ecosystem Restoration Foundation, Midwest APMS and the Northeast APMS. The RFP is also sponsored by Applied Biochemists, SePRO, and UPI.

Objective: To provide a grant to support a graduate student to conduct research on the biology, ecology, and/or management (used alone or integrated with other management approaches) of starry stonewort in the Midwestern or northeastern United States. While field work should focus on one or both of those two regions, individuals from institutions offering postgraduate degrees from anywhere in the United States may apply.

Applicants: Solicitation for proposals is open to any full-time faculty member of an accredited U.S. academic institution. A faculty sponsor must submit this proposal through the grants office of the University with which they are affiliated. While the intention is to support a graduate student in part, a student need not be identified by name.

Amount: \$60,000 (it is the policy of APMS not to pay overhead or indirect costs).

Duration: Two (2) years (\$30,000 per year).

Proposal Deadline: Applications must be postmarked no later than April 30, 2017. The grant awardee will be announced at the 2017 Aquatic Plant Management Society Annual Meeting.

Guidelines for Proposals: Proposals should contain a concise statement of the project, including its purpose and justification, as well as sections that discuss study objectives, methodology, schedule, budget, and planned publication of results. The résumé of the faculty applicant and graduate student (if known) should not exceed two (2) pages each. Proposals should not exceed ten (10) pages, and must be signed by the applicant (principal investigator) and an appropriate university official. Include copies of up to five (5) of your most recent peer-reviewed publications. Please submit a pdf file of your full application via email to Dr. John Madsen at jmadsen@ucdavis.edu. The grant proposal will be judged based on the quality of the scientific approach, applicability to management of starry stonewort, feasibility, and potential of applicants to continue in aquatic plant management activities or involvement in the future of the society.

Award: The award will be announced at the 2017 Aquatic Plant management Society Annual Meeting in July 2017. Notification of award will be provided to the faculty member in time to make arrangements to attend the APMS 57th Annual Meeting (July 16-19, 2017 – Daytona Beach, Florida). Payments will be made before January 31st of 2018 and 2019.

Requirements: Semi-annual progress reports must be submitted to APMS prior to June 30th and December 31st for each year of the grant. The faculty member and student must participate in at least one APMS regional chapter meeting and attend the APMS Annual Meeting. The student must present results of the funded research at least one time over the duration of the grant, although it is preferred that presentations are made annually. Upon completion, a final report must be submitted to APMS.

Inquiries: Dr. John Madsen USDA - ARS, EIWRU, University of California-Davis, Mail Stop 4 - One Shields Avenue, Davis, CA 95616, Phone: 530-752-7870, Email: jmadsen@ucdavis.edu

Central Florida Adventures After the Annual Meeting

The Meeting Planning Committee considers several factors when selecting the APMS Annual Meeting site including cost, hotel amenities, accessibility, and local services and attractions for delegates and families. We hope that you will join us for the technical updates and interactive events that we have planned in the Program, and that you can set aside a couple days to relax and enjoy the surroundings.

The Hilton is offering the conference rate of \$139 per night for three days prior and three days after the conference (from July 14 – 21). This should allow plenty of time to relax at the Hotel pool or beach, or use the Hilton as a base for daily excursions into central Florida.

Most visitors are familiar with the multitude of theme parks in and around Orlando. The central/north Florida coast also has plenty of attractions and natural areas. The Daytona Beach Boardwalk and Pier are next door to the Hilton, and across the street is the Daytona Lagoon waterpark.



Daytona Beach Boardwalk Amusement Area and Pier — View from the Hilton

If adrenalin is your thing, the Daytona International Speedway is just five miles from the Hilton. On-site activities range from tours of the facilities to a 160-mph ride along at the Richard Petty Driving Experience. For a lower energy tour, you can drive on the beach with access next to the Hilton. Remember to be aware of the tides if you get out of

the car - don't wander too far for too long.

Other outdoor activities include fishing and golf. There are more than two dozen charter fishing boats that depart from Daytona Beach or nearby towns, and over 50 golf courses within 50 miles of the Hilton. A little farther up the road at mile marker 323 on I95 is the World Golf Hall of Fame. This is July in Florida, so consider an early tee time to avoid the afternoon heat and possible thunder.

Back on the pavement, you can head south on Atlantic Avenue about 12 miles for some vertical hiking at Ponce de Leon Lighthouse. The Ponce Lighthouse is the tallest in Florida with 203 steps taking you to the top of the 175-foot tall tower. Afterwards, several boardwalks and vehicle access lead you to the beach. If you head north from the Hilton up the avenue known as A1A for about 35 miles, you will come to Washington Oaks State Garden. On the east side of A1A is a hidden treasure known locally as the Rocks — one of Florida's few rocky beaches. Arrive at low tide and walk north from the boardwalk for the best experience.



The Rocks on the east side of A1A at Washington Oaks State Park

If you can't make this year's APMS Guest Tour, or if the Tour whets your appetite for more history, set aside a couple days in St. Augustine. Ponce de Leon first landed in Florida in 1513. For years, that site was figured to be near St. Augustine. Now others argue that the landing was some 150 miles south near current day Melbourne. Regardless of the debate, St. Augustine, officially founded in 1565, has ancient history as the capital of Spanish Florida for more than 200 years. You can walk the walls of the Castillo de San Marcos, built in 1695, and through the City Gate to historic St. George Street, with its mix of shops, chocolatiers and restaurants.

Central Florida Adventures After the Annual Meeting



Castillo de San Marcos and the City Gates across the street in Historic St. Augustine



More recent history and architecture is viewed at the Lightner Museum, Flagler College and historic churches. Go it on your own or try a tour that lets you hop on and hop off at your own pace throughout the day.

Afterwards, take the Bridge of Lions across the Matanzas River to the St. Augustine lighthouse.



With 219 steps ascending 165 feet, the 3rd tallest lighthouse in Florida opens to great



View from St. Augustine Light

views of the old city and fort to the west and the Atlantic Ocean to the east. Just down the street are the dunes and white sand beaches of Anastasia State Park.

If modern technology is more to your interest, the Kennedy Space Center is about 65 miles south of the Hilton. There are several daily tours available. Check the Center's calendar for the possibility of a launch while you are there.

Florida has 5 cruise ports. Two are near the Hilton; Jacksonville and Port Canaveral. For a break from the salt water, Blue Springs or De Leon Springs State Parks, or both, may be for you. These first magnitude springs are each about 45 minutes (30 miles) from the Hilton; west on I4, in Orange City for Blue Springs, and west on US 92 to Deland for De



Old Spanish Sugar Mill at De Leon Springs State Park

Leon Springs. Swim, snorkel, or SCUBA in the year-round 73 degree clear waters. Consider arriving at De Leon Springs State Park after 9:00 am to make breakfast at your table at the Old Spanish Sugar Mill Grill and Griddle House. Then work off the calories in the swimming area right outside the door.

We hope you enjoy the outstanding 2017 APMS Annual Meeting and all of the associated events that the Meeting Planning and Program Committees are assembling. We also hope that you can bring along your family and find time to relax and enjoy Florida while you are here.

Washington Report - Lee VanWychen - WSSA Science Policy Director

Pruitt Confirmed as EPA Administrator

On February 17, 2017, the United States Senate confirmed Scott Pruitt as the 14th Administrator of the U.S. Environmental Protection Agency. The 49 year old Pruitt was born and raised in Kentucky where he graduated from Georgetown College in 1990. After that, he moved to Oklahoma where he earned his law degree at the University of Tulsa specializing in constitutional law. Most recently,



Pruitt served as the Attorney General for Oklahoma. He worked with his Democratic counterpart in Arkansas to reach agreement to study the water quality of the Illinois River, which crosses the border between the two states. The Statement of Joint Principles provides for a best science study using EPA-approved methods, with both states agreeing for the first time to be bound by the outcome.

Also during his tenure as Oklahoma's Attorney General, Pruitt led an historic water rights settlement between Oklahoma, Oklahoma City, and the Choctaw and Chickasaw Tribal Nations that preserved the ecosystems of scenic lakes and rivers on native lands. The agreement, which required Congressional approval, provides a framework that fosters intergovernmental collaboration on significant water resource concerns with the settlement area, while at the same time protecting existing water rights and affirming the state's role in water rights permitting and administration. More on Administrator Pruitt at: <https://www.epa.gov/aboutepa/epas-administrator>

Zinke Awaiting Confirmation as Secretary of Interior

On December 13, 2016, Ryan Zinke was nominated to serve as Secretary of Interior. The 55 year old former Navy Seal has a B.S. in Geology from Oregon and Masters in Business Finance and in Global Leadership



from the University of San Diego. In November, Zinke had won his second term as Montana's sole Representative in the U.S. House. He is known both as an avid sportsman and conservationist.

On January 31, 2017 he was approved by the Senate Committee on Energy and Natural Resources by 16-6 vote. However, due to Democratic delays, it will be over a month before he gets a confirmation vote from the full Senate. More info about Ryan can be found at: https://en.wikipedia.org/wiki/Ryan_Zinke and <http://www.ryanzinke.com/>

Less Federal Regulations Expected: The last couple of years have been daunting for the sheer number of rules and regulations that have required comments from the weed science societies. It used to be rare if the federal register reached 80,000 pages of proposed rules, regulations, and executive orders in a calendar year. In 2016 that benchmark was obliterated when the federal register reached 97,000 pages.

One primary area of concern is how Endangered Species Act (ESA) assessments are grinding the FIFRA registration process to a halt. There have been decades of dysfunction among the EPA, Fish and Wildlife Service, and National Marine Fisheries Service over how to integrate the requirements of both FIFRA and ESA. New leadership at EPA, Interior, and Commerce can take the steps necessary to implement existing FIFRA/ESA Counterpart Regulations to fix this situation without the need for new regulations or statutes.

Federal Government Funded on CR Through April 28

Congress passed a continuing resolution (CR) just before midnight on Dec. 9, 2016 funding the government at FY 2016 levels through April 28, 2017. The new 115th Congress of the United States will have to deal with the remainder of FY 2017 funding as well as start on FY 2018 federal funding where sequestration will kick back in for discretionary spending. There will be much debate over how those recessions will be distributed between defense and non-defense programs or if there will be another budget deal to "raise the (spending) caps". Most federal research dollars depend on non-defense discretionary funding.

Washington Report - Lee VanWychen - WSSA Science Policy Director

WIIN Act Becomes Law

Just after midnight on December 10, 2016, the Senate passed the Water Infrastructure Improvements for the Nation (WIIN) Act on the last vote of the 114th Congress. The Senate vote was 78-21 and the House vote was 360-61. The legislation was signed into law on December 16, 2016.

The WIIN Act provides funding for water infrastructure improvements and research, reauthorizes the Great Lakes Restoration Initiative, Lake Tahoe Restoration Act, the Delaware River Basin Conservation Program, and the Columbia River Basin Restoration Initiative; disburses critical resources to help communities provide safe drinking water, including grant financing to remove lead service lines; and provides funding to help communities expand water supply through investments in water recycling and desalination programs.

The **Aquatic Plant Control Research Program** (APCRP) authorization remains unchanged at \$40 million, with \$20 million designated for watercraft inspection stations on the Columbia River in the Northwest.

The **Great Lakes Restoration Initiative** (GLRI) will provide \$1.5 billion over five years to strengthen fish and wildlife protection, Great Lakes navigation systems, and updates to freshwater infrastructure. Some 3,000 projects have been completed across the eight-state basin since the inception of GLRI in 2010.

The **Lake Tahoe Restoration Act** (LTRA) authorizes up to \$415 million over the next seven years in federal funding for projects in and around Lake Tahoe, which includes:

- \$150 million for fire risk reduction and forest management programs,
- \$113 million for storm water management and watershed restoration projects,
- \$80 million for environmental restoration projects,
- \$45 million for lake-wide aquatic invasive species control and a watercraft inspection program.

Calfed Bay-Delta Invasive Species Control Projects

The WIIN Act also directs the Secretary of the Interior, in collaboration with the Secretary of Commerce, the Director of the California Department of Fish and Wildlife, and other relevant agencies and interested parties, to establish and carry out pilot projects to implement an invasive species control program to benefit threatened and endangered species in the Calfed Bay-Delta. Specifically, the pilot projects shall:

- seek to reduce invasive aquatic vegetation (such as water hyacinth), predators, and other competitors that contribute to the decline of native listed pelagic and anadromous species that occupy the Sacramento and San Joaquin Rivers and their tributaries and the Delta; and
- remove, reduce, or control the effects of species including Asiatic clams, silversides, gobies, Brazilian water weed, largemouth bass, smallmouth bass, striped bass, crappie, bluegill, white and channel catfish, zebra and quagga mussels, brown bullheads.

The full text of the WIIN Act is at:

<https://www.congress.gov/bill/114th-congress/senate-bill/612/text>

Judicial and Legislative Action on WOTUS Rule:

On November 1, 2016, opening briefs to the 6th U.S. Circuit Court were filed by 31 states, plus various organizations and companies opposed to the expanded federal jurisdiction over streams and wetlands. The challengers argue that the WOTUS rule undermines state authority and take particular issue with what they say is the federal government's disregard for whether a body of water is considered "navigable," which they say should be key in determining where it can regulate. A 6th Circuit Court hearing is unlikely to occur before April 2017.

On Jan. 12, 2017, Senators Joni Ernst (R-IA) and Deb Fisher (R-NE) resurrected a resolution calling for the WOTUS rule to be scrapped. The nonbinding resolution would put the Senate on record as calling for the water rule to be withdrawn or vacated. The

Washington Report - Lee VanWychen - WSSA Science Policy Director

Senate fell just short of the 60 votes necessary to kill it last year, but with multiple moderate Democrats facing tough reelections in 2018, that could change. The new resolution could offer a test vote to see where lawmakers stand on the water rule.

On Jan. 13, 2017, the Supreme Court agreed to hear a challenge by the National Association of Manufacturers (NAM) to a lower court ruling because of a provision in the Clean Water Act that lays out when challenges are allowed to leapfrog lower courts. NAM's petition argues that challenges to the water rule should be first heard by district courts, rather than by appellate courts, as the 6th Circuit Court decided, because they are closer to concerns on the ground. The debate over proper venue could have renewed importance with President Trump vowing to kill the rule - a move that would likely bring a ripple effect of litigation.

NPDES "Fix" Legislation Introduced in 115th Congress

New NPDES fix legislation has been re-introduced in both the House and Senate in the 115th Congress. The Reducing Regulatory Burdens Act of 2017 (HR 953) was introduced on Feb. 7, 2017 by Rep. Bob Gibbs (R-OH) and currently has 31 cosponsors. The House Agriculture Committee has already passed HR 953 by a voice vote on Feb. 16th.

The companion bill in the Senate is S. 340 and was also introduced on Feb. 7 by Sen. Mike Crapo (R-ID) and Sen. Claire McCaskill (D-MO). S. 340 is titled the "Sensible Environmental Protection Act of 2017" and has 15 cosponsors. The NPDES-fix legislation has been passed by the House of Representatives in each of the last three sessions of Congress in 2011, 2013, and 2016.

Comments on Glyphosate Carcinogenicity:

WSSA fully supports the EPA's Cancer Assessment Review Committee's (CARC) report on glyphosate and appreciates the scientific rigor and thoroughness of the CARC's review of all available epidemiology and carcinogenicity studies. WSSA agrees with the CARC's assessment that the few studies that the

International Agency for Research on Cancer (IARC) selectively chose for its glyphosate review suffered from small sample sizes of cancer cases related to glyphosate exposure and had risk/odds ratios with large data variance beyond acceptable limits. Furthermore, WSSA feels that the IARC review process for glyphosate was flawed and represents a case of gross scientific negligence. There is no question that IARC arrived at their conclusion due to their inclusion of the positive findings from a selection of studies with known limitations, a lack of reproducible positive findings, and the omission of the negative findings from credible and reliable research.

Finally, WSSA commented on the ongoing importance of glyphosate as a weed management tool and submitted information developed surrounding some common misconceptions about glyphosate and herbicide resistance management. Comments are at:

<http://wssa.net/wp-content/uploads/WSSA-comments-to-FIFRA-SAP-on-glyphosate.pdf>

National Invasive Species Awareness Week (NISAW)

NISAW was held February 27 to March 3, 2017 in Washington DC. Hopefully you had a chance to participate in some of the many events in DC or online via the webinars. Please see www.nisaw.org for details.

The first ever **NISAW in the Field** will be held this summer from July 9 – 15, 2017. Stay tuned for more information on state-led weed pulls, field days, seminars, and more. Finally, the Congressional Invasive Species Caucus has a new co-chair: Rep. Elise Stefanik (R-NY) who was first elected to Congress in 2015 and is the youngest member in the House of Representatives at 32. She represents the northern 1/3 of New York. Mike Thompson (D-CA), first elected to Congress in 1998 from California's wine country just north of San Francisco, will remain as the other co-chair of the Congressional Invasive Species Caucus.

Washington Report - Lee VanWychen - WSSA Science Policy Director

Invasive Species Executive Order Amended

On December 5th, President Obama issued an Executive Order amending President Clinton's Executive Order 13112 issued in 1999. This new order:

- directs actions to continue coordinated Federal prevention and control efforts related to invasive species,
- maintains the National Invasive Species Council (NISC) and the Invasive Species Advisory Committee (ISAC),
- expands the membership of NISC,
- clarifies the operations of NISC,
- incorporates considerations of human and environmental health, climate change, technological innovation, and other emerging priorities into Federal efforts to address invasive species; and
- strengthens coordinated, cost-efficient Federal action.

For details, please see:

<https://www.whitehouse.gov/the-press-office/2016/12/05/executive-order-safeguarding-nation-impacts-invasive-species>

Invasive Species Issues Farm Bill Task Force Team

Invasive species management stakeholders led by the Reduce Risks from Invasive Species Coalition (RRISC) is drafting invasive species management language for the 2018 Farm Bill. Stakeholders include: American Forest & Paper Association, American Hort, Center for Invasive Species Prevention, Davey Tree Expert Company, Kansas State, Lone Tree Cattle Company, Lost Coast Forest Products, National Association of Conservation Districts, National Association of State Departments of Agriculture, National Cattlemen's Beef Association, National Wooden Pallet & Container Association, Noble Foundation, Northeast-Midwest Institute, Pacific States Marine Fisheries Commission, Society for Range Management, Society of American Foresters, State of Colorado, Syngenta, TNC, University of Georgia, U.S. Chamber of Commerce, Vermont Woodlands Association, and WSSA.

Some examples of the invasive species management language the coalition is working on include:

- adding weed treatment area designations under Healthy Forest Restoration Act,
- promoting Areawide IPM language and funding through USDA NIFA,
- preventing NRCS program participants from planting "invasive plant species" on "reserve" lands,
- pilot projects for landscape-scale testing of grazing as a tool for rangeland invasive species control,
- adding invasive species to the Foundation of Food and Agricultural Research's list of national priorities.

Invasive Mussels Found in Montana

The first evidence of zebra or quagga mussels has been found in the upper Missouri River basin in central Montana. In late 2016, water samples collected from Tiber Reservoir on the Marias River confirmed the presence of larvae of this invasive aquatic species. Samples from Canyon Ferry Reservoir on the Missouri River near Helena showed "suspected" presence. State authorities are developing a comprehensive response strategy to be in place prior to the next boating season to prevent further spread of the mussels. Further information, including weekly updates on progress, is available online at <http://musselresponse.mt.gov/> from the Montana Mussel Response Team.

CISP Wants Grass Carp and Tilapia Listed as "Injurious Wildlife"

The Fish and Wildlife Service (FWS) authority to list species as "Injurious Wildlife" is derived from the Lacey Act which was passed in 1900 to regulate hunting of wild game to supply commercial markets and prohibit the importation of nonnative Injurious Wildlife. "Injurious Wildlife" are defined as being "mammals, birds, fish (including mollusks and crustacea) amphibians, and reptiles" that are "injurious to human beings, to the interests of agriculture, horticulture, forestry, or to wildlife or wildlife resources of the United States." Upon listing as Injurious Wildlife these live animals and their

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gametes, viable eggs or hybrids may not imported or transported interstate. Just last year, FWS used this provision to list 11 species as Injurious Wildlife: <https://www.fws.gov/injuriouswildlife/index.html>.

In September, the Center of Invasive Species Prevention (CISP) announced that they had submitted a petition to list another 43 species as Injurious Wildlife. The petitioned species included blue catfish, common carp (i.e., koi), grass carp, guppies, red swamp crawfish, and the three tilapia (i.e., blue, Mozambique and Nile). Their petition was based solely upon an Ecological Risk Screening Summary (ERSS) conducted by FWS. The ERSS is a quick environmental risk analysis to assess nonnative and native species impacts on the environment and likely locations that they might colonize the U.S. More info on the ERSS reports is at: https://www.fws.gov/injuriouswildlife/Injurious_prevention.html.

Aquatic weed managers are very concerned about the potential listing of grass carp and tilapia that they deem critical for biological control of several federal and state-listed noxious weeds like hydrilla and curly leaf pondweed. Since the 1980's the use of sterile grass carp has been widely researched and used as a method of aquatic weed control, especially as part of an integrated aquatic weed management program for long-term control and prevention of many submersed weed problems.

Most states have restrictions in place and only allow the release of triploid sterile grass carp from certified dealers. APMS Past President Rob Richardson has agreed to draft a response to FWS opposing listing of triploid sterile grass carp under the "Injurious Wildlife" clause of the Lacey Act.

The Rise of Predatory Publishing: How To Avoid Being Scammed!

This last news item is a little bit off the beaten path, but still very relevant to aquatic plant researchers. I want to specifically highlight an article in *Weed Science* written by WSSA's Director of Publications,

Dr. Sarah Ward from Colorado State University. The issue of predatory publishing is a rapidly growing concern among **ALL** disciplines of science and many seasoned scientists have already been duped.

Prospective authors must ultimately decide for themselves whether an unfamiliar on-line open access journal is legitimate and of sufficient quality to be trusted with a manuscript submission. A useful first step is to find out whether the publisher belongs to the Open Access Scholarly Publishers Association (<http://oaspa.org>), and whether the journal is listed in the Directory of Open Access Journals (<http://doaj.org>), which has taken stronger recent action to filter out predatory publications.

Here is the abstract from Sarah's article (DOI: <https://doi.org/10.1614/WS-D-16-00080.1>):

The rise of on-line open access (OA) has profound implications for academic publishing, not least the shift from subscribers to authors as the primary transactional partners for peer-reviewed journals. Although OA offers many benefits, it also paves the way for predatory publishers, who exploit the author-as-customer model to obtain revenue from author fees while providing few of the editorial services associated with academic publishing. Predatory journals publish papers with little or no peer review, and often disguise their real geographical location while exaggerating their scope and editorial expertise. Such journals also attempt to attract authors by promising unrealistically rapid editorial decisions while falsely claiming peer review, and fabricating impact factors and inclusion in academic indexes. The explosive increase in predatory OA journals is not only a risk to inexperienced authors, but also threatens to undermine the OA model and the legitimate communication of research.

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APMS Chapter and Related Annual Meetings

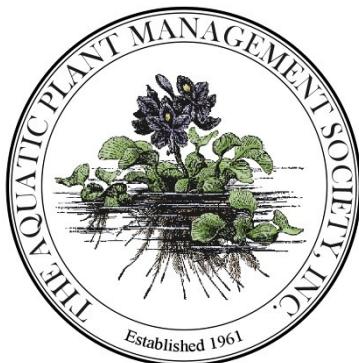
Date	Meeting	Location
2017		
January 18-20	South Carolina Aquatic Plant Management Society	Myrtle Beach, South Carolina
January 10-12	Northeast Aquatic Plant Management Society	Portsmouth, New Hampshire
Feb 27 - Mar 2	Midwest Aquatic Plant Management Society	Milwaukee, Wisconsin
March 13-16	Western Aquatic Plant Management Society	Coeur D'Alene, Idaho
July 16-19	Aquatic Plant Management Society	Daytona Beach, Florida
August 20-24	American Fisheries Society	Tampa, Florida
September 11-13	MidSouth Aquatic Plant Management Society	Birmingham, Alabama
TBD	Texas Aquatic Plant Management Society	TBD
October 16-19	Florida Aquatic Plant Management Society	Lake Buena Vista, Florida
November 6-9	North American Lake Management Society	Denver, Colorado
2018		
Jan 29—Feb 1	Weed Science Society of America	Arlington, Virginia
February 18-23	15th International Symposium on Aquatic Plants	Queensland, New Zealand

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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. The membership reflects a diversity of federal, state, and local agencies; universities and colleges around the world; corporations; and small businesses.

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