



Since 1961

The results of the 2018 APHIS Aquatic Weed Survey are in. Below are the four most troublesome weeds listed among all aquatic sites. Hydrilla also ranked as the most common aquatic weed in the U.S. (p. 14)



hydrilla



Eurasian watermilfoil



water hyacinth



alligatorweed

Aquatic Plant News

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

We're on the Web!
apms.org

Issue 120

February 2019

Join Us for the Joint APMS / WAPMS Annual Meeting



DoubleTree San Diego
Mission Valley
7450 Hazard Center Drive
San Diego, CA 92108
(619) 297-5466

The Western Chapter of the Aquatic Plant Management Society is hosting the 59th APMS Annual Meeting on July 14-17 at the DoubleTree San Diego Mission Valley.

The Meeting Planning Committee has secured a group rate of \$169 per night during the conference. The cutoff date for this rate is June 21, 2019. We encourage you to make reservations early since we anticipate this to be a well-attended meeting.

Hotel reservations:

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

You can also book over the phone at:

(800) 222-TREE - Group Code APM

Conference registration & information:

www.apms.org/2019-annual-meeting/

Please read on and check the APMS web site (www.apms.org) for more information on the 2019 Annual Meeting events and important deadlines. We hope to see you in July in San Diego.

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Make your Reservations NOW for the Joint APMS / WAPMS Annual Meeting!

59th APMS Annual Meeting

www.apms.org



Delegate **Registration** for the 2019 Annual Meeting includes an annual APMS Membership for 2020. Registration is \$395.00 for a delegate and \$130.00 for a guest (spouse, partner, child over 12 years of age) if received by June 14, 2019. After this date, registration fees at the door will be \$470.00 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 attendance at all technical sessions as well as the President's Reception, continental breakfasts, refreshment breaks, Poster Reception, and Awards Reception and Banquet. Guest registration includes President's Reception, continental breakfast and breaks, Poster Reception, and Awards Reception and Banquet. Non-registered guests may purchase individual tickets for these events.

The 2019 Annual Meeting will begin with the **President's Reception** on Sunday evening. As the official welcoming event of the meeting, this reception is an excellent time to re-acquaint with colleagues, meet new friends, and relax. Heavy hors d'oeuvres and beverages will be served. All students registered for the conference will have an opportunity to meet one another and become familiar with the conference format at the **Student Meet-and-Greet** scheduled one hour prior to the President's Reception. This reception is for students only!

The **Program** will commence at 8:00 am Monday, July 15 and adjourn at noon on Wednesday, July 17. The 2019 Annual Meeting site lies within the boundaries of the Western APMS Regional Chapter and we en-



38th WAPMS Annual Meeting

www.wapms.org

courage researchers and program managers to attend and share your latest findings or operational strategies via oral or poster presentations.

The Monday **Poster Reception** is scheduled for early in the evening with all poster presenters in attendance explaining their work and answering questions. The Poster Reception is held in the Exhibit Hall to enhance networking among vendors and sponsors along with researchers. Light hors d'oeuvres and beverages will be served. There is sufficient time afterwards to further discuss research or business on site or at a local venue.

The APMS **Reception and Awards Banquet** will be held on Tuesday evening. We will recognize those who have served and contributed to our Society, welcome new officers and directors, and present student paper and other awards.

Please make your hotel reservations early. When making reservations by phone, be sure to mention that you are part of the Aquatic Plant Management Society. Our special APMS guest room rate is \$169.00 while rooms last for single and double occupancy per night plus applicable tax. Afterwards room rates, if available, increase to \$280. The cutoff date for reservations at the special group rate is June 21, 2019. Check in time is 4:00 pm; checkout time is 12:00 pm. If you depart earlier than your reserved departure date, the hotel will charge one night room and tax.

We hope to see you and your family in San Diego as we celebrate the 59th Annual Meeting of the Aquatic Plant Management Society and the 38th Annual Meeting of the Western Aquatic Plant Management Society!

59th 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 14, 2019)</i>	On-site	
<input type="checkbox"/> Delegate Registration	\$ 395.00	\$ 470.00	\$ _____
<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) Name(s): _____	\$ 130.00	\$ 155.00	\$ _____
<input type="checkbox"/> One-day Meeting Registration <i>(includes refreshment breaks on day of attendance only)</i> Day of Attendance: _____	\$ 100.00	\$ 100.00	\$ _____

Individual Special Event Tickets for Non-registered Guests

<input type="checkbox"/> President's Reception	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 (2019)

<input type="checkbox"/> Individual	\$ 95.00	\$ _____
<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 14, 2019. Registration questions, please phone: 662-617-4571 or E-mail: APMS14@Hotmail.com

Cancellation/Refund Policy: Registration fees are fully refundable prior to June 28, 2019, less a \$25.00 processing and handling fee. No refund of any fees will be issued if cancellation of participation is received after June 28, 2019. Notice of cancellation must be received by APMS via mail, fax, or e-mail. **Phone cancellations will not be accepted.**

Call for Papers—2019 APMS / WAPMS Joint Annual Meeting

Present Your Original Research

You are invited to submit a title and abstract for the 59th Annual Meeting of the Aquatic Plant Management Society, to be held jointly with the Western Aquatic Plant Management Society, July 14-17 at the DoubleTree San Diego Mission Valley, San Diego, California. Oral and poster presentations are solicited for original research informing management practices for invasive and nuisance aquatic plants and harmful algal blooms (HAB including cyanobacteria).

Special topics of interest for the program include:

- Management of invasive aquatic plants in sensitive aquatic environments
- Eradication programs for invasive aquatic plants: history, successes, challenges, economic and ecological impacts
- HAB management in drinking water supply systems and large lakes/reservoirs, and integrating watershed and in-lake nutrient mitigation with targeted control of bloom events
- Irrigation canal management
- Management techniques for flowering rush and other recent Western U.S. aquatic weed threats
- Education, outreach, and prevention strategies, particularly in the Western U.S.
- Classic biocontrols for aquatic invasive plants
- Novel monitoring and assessment methods



General papers relevant to management are also invited on the biology, ecology, and control methods (biological, chemical, cultural, mechanical) of aquatic and wetland plants or algae/cyanobacteria, and restoration projects.

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

or regulatory programs, particularly those implementing novel management or organizational approaches, are also welcome.

Interactive Presentation Format

Oral presentations will be allotted a total of 15 minutes with an additional five minutes for questions and discussion. 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 approved by the Program Chair prior to the meeting. You will not be allowed to use a personal computer.

A 90-minute Poster Reception is scheduled for Monday evening. Poster presenters discuss their research with attendees in the Exhibit area while enjoying hors d'oeuvres and beverages. Free-standing display boards (4' x 4') will be provided by APMS for posters.

Please submit your information online on the WSSA Title and Abstract Submission System at:

www.wssaabstracts.com

Abstract Submittal Deadline—April 15, 2019

Instructions for abstract submittal are on the following page in this Newsletter. The WSSA Abstract Submission System is active and will remain open until April 15, 2019. Acceptance of contributed papers will not occur until after the April 15, 2019 abstract deadline, and will be confirmed by a separate e-mail.

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, accessible at:

www.wssaabstracts.com

Logging in to the WSSA System

If you have used the WSSA 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 Title and 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 phone number.

After you log in, click "Join a Conference" to access the **2019 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 2019 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.

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.** A short biography of 100-250 words is also required to facilitate securing continuing education credits for the conference 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 15, 2019. Please do not wait until the last minute. Abstracts will be accepted for oral and poster presentations on a first come, first served basis.

PowerPoint presentations for oral presentations should be uploaded to the WSSA Abstract Submission System no later than July 8, 2019. If not uploaded by this date, it will be the responsibility of the presenter to provide their final presentation on site to Conference Planner Bill Torres sufficiently in advance of the presentation.

If you have any questions, please contact:

Mark Heilman
2019 APMS Program Chair
markh@sepro.com
Ph: 317-775-3309



Student Presentation Contests and Incentives for the July 2019 Meeting

The Aquatic Plant Management Society (APMS) is inviting student presentations for the 59th Annual Meeting. The meeting will be held July 14-17, 2019 at the DoubleTree San Diego Mission Valley, San Diego, California.

Student Incentives

The APMS and WAPMS especially invite student abstracts for oral and poster presentations. APMS has a strong ethic of student support. The Annual Meeting presents an opportunity for students to develop presentation skills, learn more about the field of aquatic plant management, and network with key government, university and industry representatives and peers with similar educational and professional interests.

Students attending and presenting from a WAPMS state (AK, AZ, CA, CO, HI, ID, OR, NV, NM, MT, UT, WA, and WY) are encouraged to apply for a travel stipend through the Barbra H. Mullin Student Scholarship. Details at:

<https://wapms.org/Students>

Oral and Poster Presentations

Student 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. Twenty-four students from nine universities participated in the 2018 Annual Meeting in Buffalo, New York and we hope to have strong student attendance again this year.

APMS will provide all student presenters with room accommodations and complimentary registration. First, 2nd, and 3rd place prize money will be awarded in 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. 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 representatives.

Student Meet-and-Greet and Student Luncheon

All students registered for the meeting are invited to gather and get to know other students for an hour prior to the Sunday evening, July 14th Presidents' Reception. Beverages and light snacks will be provided. This students-only event is open to all students who are registered for the meeting. During the conference, the Student Affairs Luncheon will be held on Monday July 15th for all registered students to network with other attendees. Guest speakers from state and government agencies, as well as private industry will answer questions and provide insight to career opportunities.

Post-conference Student Tour

All students are invited to attend a hands-on tour of management activities on surrounding waters following the Annual Meeting. A unique experience on California waters tied into conference content is being planned with details available soon in advance of the April 15 abstract submission deadline.

Please log on to www.apms.org to learn more about the Aquatic Plant Management Society and this year's meeting. Students may register for the Annual Meeting and submit an abstract by following instructions under the [2019 Annual Meeting](#) page. The deadline for Abstract submission is April 15, 2019.

For more student information please contact:

Christopher Mudge, PhD
Student Affairs Committee Chair
U.S. Army ERDC
108 Sturgis Hall
Baton Rouge, LA 70803
225-578-1208

Christopher.R.Mudge@usace.army.mil

or

CMudge@agcenter.lsu.edu

Be a Sponsor or Exhibitor at the 2019 Annual Meeting

Sponsors: Sponsors are essential to the success of the Annual Meeting. After meeting with sponsors and conference attendees, APMS 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 APMS Annual Meeting offers an excellent opportunity to exhibit products and services and interact with key people 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 discussions among Exhibitors and meeting attendees.

For more information on Meeting Sponsorship and Exhibiting, please contact APMS Exhibits Committee Chair Dean Jones (kdjones@ufl.edu) or visit the web site at (www.apms.org/annual-meeting)

Call for 2019 APMS Award Nominations

It is time to recognize your colleagues for exemplary achievements and service. The Society provides a number of different awards in research and management for both long-time and short-term accomplishments and to established researchers and graduate students just beginning their journeys in aquatic plant control. Visit the [Awards](#) page on the APMS

website for more information on each Award and a list of past recipients. Criteria and Nomination Forms are at the end of the Awards page on the web site. The deadline for nominations is March 15, 2019.

Please send your Award Nominations to Jay Ferrell, Awards Committee Chair at: (jferrell@ufl.edu)



JOURNAL OF AQUATIC PLANT MANAGEMENT


RESEARCH METHODS

Weed management in aquatic environments presents unique challenges that are not commonly faced in weed science research. This publication contains 14 chapters from leading researchers to explain the difficulties and detail how to generate repeatable data in aquatic systems.

Cost \$35

Go to www.apms.org to order your copy today!



59th Annual Meeting of the APMS

Exhibit Booth Form

Contact Information

Contract must be signed by the individual who is responsible for the exhibit.

Print Name: _____ Signature of Acceptance: _____

Exhibit Booth Information

Company: _____

Booth Staffer Name: _____

Exhibit booth fee includes one (1) free meeting registration.

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ E-mail Address: _____

Exhibit Booth Fees

☐ Single Exhibit Booth (8'x10') - \$800.00 \$ _____

Other Fees

☐ Non-profit Table - \$0 \$ _____

☐ Additional contribution (Sponsorship): _____ \$ _____

* *Optional:* Electricity – See attached hotel form. \$ pay hotel directly

Total Amount \$ _____

Type of Exhibit

☐ Table Top ☐ Screens ☐ 8 x 10 ☐ Other: _____

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: _____

Please Mail or Fax Completed Form and Payment by June 14, 2019 to:

The Aquatic Plant Management Society, Inc.

7922 NW 71st Street

Gainesville, Florida 32653

E-Mail: APMS14@Hotmail.com

Phone: 662-617-4571

Fax: 352-392-3462

In Memory of Michael D. Netherland - November 16, 1963 - October 16, 2018



Dr. Michael Dyer Netherland “Mike” passed away after a long battle with cancer in the Haven Hospice Care Center, Gainesville, Florida on Tuesday, October 16, 2018 at the age of 54. Mike is survived by his loving wife of 31 years, Marci Love Netherland, his son Luke Dyer Netherland and daughter Sarah Love Netherland.

Mike was born on November 16, 1963 in Huntington, Indiana to Lane and Joeline Netherland. He graduated from Eisenhower High School in 1982 (Lawton, OK); from Cameron University in 1986 (Lawton, OK) with a BS in Biology; from Purdue University (West Lafayette, Indiana) in 1989 with a MS in Botany and later earned his Ph.D. in Agronomy from the University of Florida (Gainesville, FL) in 1999.

Mike was accomplished as a research scientist, working for industry (SePRO) after graduating from Purdue and, for the U.S. Army Corps of Engineers at the University of Florida’s Center for Aquatic and Invasive Plants in Gainesville, FL after receiving his Ph.D. He was dedicated, and passionate about science and education, interacting with the scientific community across the U.S. and around the world. He led a research team at UF, working with managers, agencies and stakeholders to develop and incorporate new assessment and large-scale hydrilla management strategies after fluridone herbicide resistance was confirmed in multiple Florida lakes and reservoirs.

Mike joined APMS in 1996. He served on the Board for 11 years; as Editor and as President in 2014. He was also a Director, and President of FAPMS in 2009. Mike was a recipient of the first APMS Outstanding Research and Technical Contributor Award in 2010. Other APMS awards include: T. Wayne Miller Distinguished Service (2011), Outstanding JAPM Article (2014), and APMS President’s Award (2016).

Mike was a tireless supporter of APMS education initiatives; as a Florida Plant Camp volunteer instructor, a frequent instructor at technical exchange workshops, and authoring APMS White Papers on *A Manager’s Definition of Aquatic Plant Control* and *Herbicide Resistance Management*. He served as Editor of the *Journal of Aquatic Plant Management* and was a



Mike Netherland receives the Student Presentation Award from Secretary Bill Rushing at the 1988 APMS Annual Meeting

strong advocate for expanding the biannual APMS Graduate Student Research Grant to an annual award.

Toward this end, APMS has created a Scholastic Endowment Account and has named the award in Mike’s memory to the APMS *Michael D. Netherland Graduate Student Research Grant*.

All that knew Mike will miss his wit and ability to inject humor to any situation.

In lieu of flowers, Mike requested memorial contributions may be made to the Aquatic Plant Management Society Graduate Student Research Grant (APMS GSRG) or the Florida Aquatic Plant Management Society Scholarship & Research Foundation (FAPMS SRF). Please include Mike’s name and specify which society on the memo line. Mailing address for both is 7922 NW 71st Street, Gainesville, FL 32653; apms14@hotmail.com. Memorial donations may also be made to Haven Hospice in Gainesville, FL at www.beyourhaven.org/donate, or mailed to 4200 NW 90 Blvd., Gainesville, FL 32606.

APMS Offers Assistance to Florida Aquatic Plant and Algae Management

On January 10, 2019, Florida Governor Ron DeSantis signed Executive Order 19-12, implementing major reforms to ensure the protection of Florida's environment and water quality. *"The protection of water resources is one of the most pressing issues facing our state. That's why today I'm taking immediate action to combat the threats which have devastated our local economies and threatened the health of our communities."*

Part of Executive Order 19-12 includes the Establishment of a Blue-Green Algae Task Force, charged with focusing on expediting progress toward reducing the adverse impacts of blue-green algae blooms now and over the next five years.

APMS members have considerable experience researching and managing harmful algae blooms including blue-green algae. Accordingly, APMS sent a letter to Governor DeSantis on February 4, offering to participate on the Task Force and provide unbiased scientific review and development of management options that may be considered by the State.

Beginning January 28, the Florida Fish and Wildlife Conservation Commission (FWC) temporarily paused its aquatic herbicide treatment program throughout the state. During this pause, staff worked to collect public comments regarding the FWC's aquatic plant management program. Begun in 1899, Florida's program is one of the oldest, largest, and most emulated aquatic plant management initiatives in the U.S.

In pausing the program, FWC first advised that: "Invasive plants degrade and diminish Florida's waterways by displacing native plant communities. Some invasive aquatic plants pose a significant threat to human welfare and cause economic problems by impeding flood control and affecting recreational use of waterways."

The FWC held several public meetings to gather community input. The APMS Board sent a letter to FWC, citing Florida's aquatic plant management program as one of the most progressive, integrated, and adaptive programs in the country. APMS offered to assist in evaluating and responding to program comments.

In Memory of James Lankford



James Scott (Scotty) Lankford
June 12, 1941 - January 1, 2019

James Scott (Scotty) Lankford, age 77, passed away January 1, 2019 in his Huntsville, Alabama home after a valiant battle with cancer. Scotty was born in Hol-

lywood, AL on June 12, 1941. He graduated from Scottsboro High School in 1959, where he was a standout basketball and baseball player. Scotty was awarded a basketball scholarship to Florence State College and was one of the famous "Hustling Eight from Florence State" going to the first National Championship Tournament in school history.

In 1961, Scotty enlisted in the U.S. Air Force and ultimately became the USAF "Combative Measures" Judo Instructor; later winning the Mid-West 180lb Judo Championship. Honorably Discharged in 1965, he returned to Florence State to complete a degree in Biol-

ogy which served him well in his position with Alabama Power/Southern Company for 35 years. Scotty was a Charter Member and served as President of the Mid-South Aquatic Plant Management Society and the Alabama Vector Management Society. He was also a member of APMS from 1990-1999. Scotty was instrumental in developing management practices for aquatic weeds and noxious algae in Alabama water resources used by Alabama Power and the public.

Scotty especially enjoyed teaching and coaching young athletes. He stressed the importance of a strong work ethic, physical conditioning, mental sharpness and always portraying an example of what a positive attitude can achieve. Words used by friends and family to describe Scotty are hardworking, witty, humorous, animated, positive, uplifting, motivating, smart, teacher, mentor, coach, giving, loving, outdoorsman, and a rock. Some of Scotty's own last words: "I have been so lucky. I loved my wife and she loved me. I loved my children and they loved me. I loved my work. I had close friends. I love the life God gave me. I was so very blessed!"

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

Federal Agency Reorganization Plan

Under the Administration's proposal released on June 21, U. S. Army Corps of Engineers (USACE) navigation would be transferred to the Department of Transportation and the remaining USAEC civil works missions, which include flood and storm damage reduction, aquatic ecosystem restoration, regulatory, and all other activities, would be moved to the Department of Interior. None of this is going to happen. The USACE functions will remain under the Department of Defense.

FY 2019 Federal Budget

There was no government shutdown for the USACE as they were part of one of the five spending bills that passed Congress last year. These included: 1) Military Construction and Veterans Affairs; 2) Energy and Water; 3) the Legislative Branch; 4) Labor, Health and Human Services, and Education; and 5) Defense. However, funding for EPA, Interior, and USDA was suspended because they were part of the seven spending bills that did not pass Congress last year (i.e. partial government shutdown).

Selected Discretionary Appropriations Accounts

Program	2017 Final	2018 Final	FY 2019 House	FY 2019 Senate	FY 2019 Final
	----- Millions of Dollars -----				
Army Corp of Engineers - Civil					
Aquatic Plant Control Research Program	4	5	0	5	5
Flowering Rush Control	n/a	1	0	1	1
Watercraft Inspection Stations	5	5	6	6	6
Great Lakes Restoration Initiative (EPA)	300	300	300	300	?
National Sea Grant Program (NOAA)	63	65	68.5	71	?
USDA- ARS	1170	1203	1259	1301	?
USDA- NIFA	1363	1407	1447	1423	?
Hatch Act (Experiment Stations)	244	244	259	244	?
Smith-Lever 3(b) & (c) (Extension)	300	300	315	300	?
AFRI competitive grants	375	400	415	405	?
IR-4 Minor Crops	11.9	11.9	11.9	11.9	?
Crop Protection & Pest Management	20	20	20	20	?

2018 Farm Bill Signed Into Law

The House voted 369-47 on December 12 to pass the 2018 Farm Bill, after the Senate approved it 87-13 the day before. President Trump signed it on December 20th. A major reauthorization for the agricultural research community was funding for the Foundation for Food and Agriculture Research (FFAR) at \$185 million. The Farm Bill

Washington Report (continued from page 11)

also re-establishes competitive grants programs for the acquisition of research equipment for use in food and agricultural sciences programs that was not available in the previous Farm Bill. It stipulates grant amounts may not exceed \$500,000 to an eligible institution and authorizes \$5 million for fiscal years 2019 through 2023.

There was a provision in the House version that provided legislative guidance to streamline the FIFRA-Endangered Species Act (ESA) consultation process. While that language did not make it in the compromise agreement, the Farm Bill did create a “FIFRA Interagency Workgroup” that will be composed of representatives from USDA, Interior, Commerce, EPA and the Council on Environmental Quality (CEQ) that will “provide recommendations regarding, and to implement a strategy for improving, the consultation process required under section 7 of the Endangered Species Act of 1973 for pesticide registration and registration review”. In carrying out these duties, the Farm Bill directs this interagency workgroup to “...consult with, representatives of interested industry stakeholders and nongovernmental organizations (i.e. APMS, WSSA, etc.)”

2018 Water Resources Development Act

The 2018 Water Resources Development Act (WRDA) was signed into law by President Trump at the end of October and became Public Law 115-270. The 2018 WRDA keeps the \$20 million authorization for the USACE Aquatic Plant Control Program. The bill widely expands funding from \$20 million per year to \$110 million for watercraft inspection stations for invasive species management. Existing law authorized up to \$20 million per year for watercraft inspection stations on the Columbia River Basin. The 2018 WRDA law authorizes up to \$30 million per year for watercraft inspection stations on the Columbia River Basin, plus adds \$30 million per year for both the “Upper Missouri River Basin”, the “Upper Colorado River Basin, and the South Platte and Arizona River Basins”.

There is language in the 2018 WRDA for a “Harmful Algal Bloom Technology Demonstration.” It states: “The Secretary (of the Army), acting through the Engineer Research and Development Center (ERDC), 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. The Secretary (of the Army) shall ensure that technologies identified, tested, and deployed under the harmful algal bloom technology development demonstration program have the ability to scale up to meet the needs of harmful-algal-bloom related events”.

Finally, the 2018 WRDA also has language about aquatic invasive species research. As part of the ongoing activities of the ERDC to address the spread and impacts of aquatic invasive species, the Secretary of the Army shall undertake research on the management and eradication of aquatic invasive species, including Asian carp and zebra mussels. The Secretary of the Army shall work with USACE 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. Not later than 180 days after the date of enactment of this section, the Secretary of the Army 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.

EPA and Army Propose New WOTUS Definition

On December 12, the EPA and the USACE (the agencies) proposed a new definition of “waters of the United States” (WOTUS) in an attempt to provide clarity, predictability and consistency so that the regulated community can easily understand where the Clean Water Act applies—and where it does not. Under the agencies’ pro-

Washington Report (continued from page 12)

posals, traditional navigable waters, tributaries to those waters, certain ditches, certain lakes and ponds, impoundments of jurisdictional waters, and wetlands adjacent to jurisdictional waters would be federally regulated. It also details what are not “waters of the United States,” such as features that only contain water during or in response to rainfall (e.g., ephemeral features); groundwater; many ditches, including most roadside or farm ditches; prior converted cropland; stormwater control features; and waste treatment systems. The agencies’ proposal is the second step in a two-step process to review and revise the definition of WOTUS consistent with President Trump’s February 2017 Executive Order, which states that it is in the national interest to ensure that the nation’s navigable waters are kept free from pollution, while at the same time promoting economic growth, minimizing regulatory uncertainty, and showing due regard for the roles of Congress and the states under the Constitution. More information is at: <https://www.epa.gov/wotus-rule>.

EPA Re-Registers Dicamba Through 2020

On October 31, EPA extended the registration of Xtendimax with Vaporgrip, Engenia, and Fexapan through December 20, 2020. Details are at: <https://www.epa.gov/ingredients-used-pesticide-products/registration-dicamba-use-dicamba-tolerant-crops>. The New Dicamba Product labels are: Xtendimax with Vaporgrip (Updated since Nov. 1, 2018), Engenia, & Fexapan. EPA has also posted several documents on the regulations.gov website pertaining to dicamba: <https://www.regulations.gov/docket?D=EPA-HQ-OPP-2016-0187>. Under “Supporting Documents” there are two documents: 1) Dicamba Pesticide Use Limitation Areas - County list; and 2) The Scientific Basis for Understanding the Off-Target Movement Potential of Xtendimax, which is a 46-page document from Monsanto that explains why (a) vapor drift occurring due to volatilization should not result in impacts off the treated field; and (b) spray drift will not occur past the label’s required buffer distances in amounts that would have an adverse effect on plant height. Also, under the “Comments Section”, there is a post from October 31, 2018 titled “Dicamba 2018 Comments”, which is 553 pages of documents that EPA received from stakeholders asking them to re-register, not re-register, etc.



Alexandra Dapolito Dunn Approved for EPA’s Top Chemical Safety Spot

Dr. Dunn was approved by the Senate on January 3, 2019 to lead EPA’s Office of Chemical Safety and Pollution Prevention (OCSPP). This office oversees the Office of Pesticide Programs (OPP) that conducts the pesticide registration process. She is an environmental lawyer and law professor specializing in water quality issues. Alexandra was the Regional Administrator for EPA Region 1 (Northeast U.S.) and prior to that, served as executive director and general counsel for the Environmental Council of States (ECOS) as well as the Association of Clean Water Administrators.

Wild Spotter: Mapping Invasives in America’s Wild Places

A new nationwide citizen science volunteer capacity-building program called Wild Spotter (<https://wildspotter.org>) has been launched that is designed to help locate and map aquatic and terrestrial invasive species in Wilderness Areas, Wild & Scenic Rivers, and other wild places across the 193 million-acre National Forest System. The Aquatic Plant Management Society, along with the Weed Science Society of America and the four regional weed science societies are now partners in Wild Spotter.

National Invasive Species Awareness Week (NISAW): February 25 – March 1, 2019

This is the 20th year of national invasive species awareness events. For the first time, we’re looking at two additional NISAW events, one in April dealing with policy issues and one in June that will be “NISAW in the Field” for state and local organizations to host public hands-on invasive species management events. If you’re interested in helping, please let me know!

Washington Report (continued from page 13)

2018 Weed Survey of Aquatic Weeds

The 2018 survey results for weeds in aquatic and non-crop areas are now available at <http://wssa.net/wssa/weed/surveys/>. The most troublesome aquatic weed was hydrilla and most troublesome in the four non-crop areas was cogongrass. Not surprisingly, both weeds are on the federal noxious weed list. What was surprising is that hydrilla was also the most common aquatic weed in the U.S. (See Aquatic weed survey results below)

Top 10 Most Common Weeds Among Canals, Lakes, Reservoirs, Rivers, Ponds (combined)

(93 total survey respondents)

1 hydrilla (42)*	* number of survey respondents who listed the weed species as one of their top 5 weeds.
2 milfoil spp.(38)	
3 pondweed spp. (30)	- milfoil spp. included Eurasian, variable, northern, and hybrid watermilfoil, and parrotfeather
4 water hyacinth (26)	
T5 ludwigia spp. (18)	- pondweed spp. included curlyleaf, American, leafy, floatingleaf, small, variable, and waterthread pondweed
T5 naiad spp. (18)	
T7 algae spp. (17)	- ludwigia spp. included creeping water primrose and water primrose.
T7 coontail (17)	
9 alligatorweed (16)	- naiad spp. included southern and brittleleaf naiad
10 water lettuce (13)	- algae spp. included Spirogyra, Pithorophora, filamentous and planktonic algae

Top 10 Most Troublesome Weeds Among Canals, Lakes, Reservoirs, Rivers, Ponds (combined)

(93 total survey respondents)

1 hydrilla (43)*	* number of survey respondents who listed the weed species as one of their top 5 weeds
2 milfoil spp. (41)	
3 water hyacinth (28)	- milfoil spp. included Eurasian, variable and hybrid watermilfoil and parrotfeather
T4 alligatorweed (18)	
T4 crested floating heart (18)	- ludwigia spp. included creeping, Uruguay, and water primrose and primrose-willow
T6 Ludwigia spp. (16)	
T6 pondweed spp. (16)	- pondweed spp. included curlyleaf, American and variable pondweed
8 algae spp. (14)	
9 giant salvinia (13)	- algae spp. included Spirogyra, Pithorophora, filamentous and planktonic algae.
10 tie among 2 species (11)	

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APMS Sustaining Membership

The Aquatic Plant Management Society is grateful for our Sustaining Members whose generous annual contributions support 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](#), quarterly issues of *Aquatics* magazine; recognition as a [Sustaining Member](#) in Newsletters, the Annual Meeting Program, and on the APMS website. Learn more about APMS Sustaining Members by visiting their websites.

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APMS Chapter and Related Meetings

Date	Meeting	Location
2019		
February 25-28	Midwest Aquatic Plant Management Society	Chicago, Illinois
May 6-9	UF Aquatic Weed Short Course	Coral Springs, Florida
July 14-17	Aquatic Plant Management Society	San Diego, California
Joint Meeting APMS & WAPMS		
July 14-17	Western Aquatic Plant Management Society	San Diego, California
Sep. 29 - Oct. 3	American Fisheries Society	Reno, Nevada
October 2-4	South Carolina Aquatic Plant Management Society	North Myrtle Beach, SC
October 14-17	Florida Aquatic Plant Management Society	St. Petersburg, Florida
November 4-6	MidSouth Aquatic Plant Management Society	Baton Rouge, Louisiana
November 11-15	North American Lake Management Society	Burlington, Vermont
Fall - dates TBD	Texas Aquatic Plant Management Society	Bryan, Texas
2020		
TBD	Northeast Aquatic Plant Management Society	TBD
March 2-5	Weed Science Society of America	Maui, HI

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Bylaws and Resolutions	Vernon Vandiver	954-683-1764	University of Florida - Retired
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Director of Science Policy	Lee Van Wychen	202-746-4686	WSSA



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. 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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