

The Aquatic Plant Management Society



**Annual Board of Directors Meeting
July 12, 2021
New Orleans, Louisiana
In-Person & Virtual**

APMS Board Book – March 2021

Table of Contents	Chair/Contact	Noticed?	Received?
Board Book Cover	Giannotti	--	complete
Contents	Giannotti	--	complete
Agenda	Wersal/Giannotti	--	complete
BOD Chairs & Contact Info	Giannotti	--	complete
Minutes			
	Draft	ALG	yes
Officer Reports			
	President	Wersal	yes
	Treasurer	Nawrocki	yes
	Secretary	ALG	yes
	Editor	Ferrell	yes
Committee Reports			
	Awards	Madsen	yes
	Bylaws	Leary	yes
Education/Outreach/Website	Hartis	yes	yes
	Exhibits	Jones	yes
	Finance	Fuhrman	yes
	Legislative	Richardson	yes
	Meeting Planning	Richardson	yes
	Membership	Bellaud	yes
	Nominating	Heilman	yes
Past Presidents' Advisory	Heilman	yes	--
	Program	Thum	yes
	Proposal Review	Heilman	yes
	Publications	Ferrell	yes
	Regional Chapters	Turnage	yes
Scholastic Endowment	Warmuth	yes	--
	Strategic Planning	Heilman	yes
	Student Affairs	Sardes	yes
Special Representatives			

AERF	Layne	yes	--
BASS	Slade	yes	yes
CAST	Gettys	yes	--
NALMS	McNabb	yes	--
RISE	Barrick	yes	--
WOA	Kay	yes	--
WSSA	Richardson	yes	--
Science Policy	Van Wychen	yes	yes

-- = No report at this time....but may present in the meeting.

AGENDA
Aquatic Plant Management Society, Inc.
Board of Directors Meeting

July 12, 2021

10 am – 4 pm Central

**Several BOD officers and members are joining this meeting virtually. Please state your name prior to motions and seconds so the minutes can be properly recorded.*

10:00 am Call to Order

12:00 pm Break

12:30 pm Reconvene Board Meeting

2:00 pm Afternoon Break

4:00 pm Adjourn

10:00 am CALL TO ORDER - President Ryan Wersal

ROLL CALL - Secretary Amy Giannotti

- Recognition of Visitors

MINUTES - Approval of Minutes:

- Midyear BOD Meeting & Subsequent BOD Meetings held via Email

REPORT OF THE PRESIDENT – Ryan Wersal

REPORT OF THE TREASURER – Justin Nawrocki

REPORT OF THE SECRETARY – Amy Giannotti

REPORT OF THE EDITOR - Jay Ferrell

Approval of Officer Reports

COMMITTEE REPORTS

Awards – John Madsen

Bylaws and Resolutions – James Leary

Education Outreach and Website

Exhibits - Dean Jones

Finance - Andy Fuhrman
Legislative - Rob Richardson
Meeting Planning - Rob Richardson
Membership – Marc Bellaud
Nominating – Mark Heilman
Past President’s Advisory – Mark Heilman
Program - Ryan Thum
Proposal Review – Mark Heilman
Publications - Jay Ferrell
Regional Chapters – Gray Turnage
Scholastic Endowment - Tom Warmuth
Strategic Planning - Mark Heilman
Student Affairs - Samantha Sardes

SPECIAL REPRESENTATIVE REPORTS

AERF - Carlton Layne
BASS - Jeremy Slade
CAST - Lyn Gettys
NALMS - Terry McNabb
RISE - Sam Barrick – no report
Women of Aquatics - Amy Kay
WSSA - Rob Richardson
Science Policy Director - Lee Van Wychen

Approval of Committee and Special Representative Reports

OLD BUSINESS

NEW BUSINESS

1. Strategic Planning Update
2. BASS Proposal Recommendation
3. Membership Dues

4. CAST Representative
5. Renewal of social media management contract with AquaSTEM Consulting 2021-2022
(\$2,000/year)

ADJOURN - President Ryan Wersal

The Aquatic Plant Management Society, Inc.
100 Winterberry Lane
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www.apms.org

2020 - 2021 Board, Committee Chairs, and Special Representatives

Officers

President

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Plant Sciences Department
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gregory.chorak@student.montana.edu

2020 - 2021 Committee Chairs and Special Representatives

<u>Committee</u>	<u>Chair</u>	<u>Phone and E-mail</u>
Awards	John Madsen	530-752-7870 jmadsen@ucdavis.edu
Bylaws and Resolutions	James Leary	808-352-8774 learyj@ufl.edu
Education and Outreach	Brett Hartis	256-426-3117 brett.hartis@duke-energy.com
Exhibits	Dean Jones	863-514-6934 dean.jones@upl-ltd.com
Finance	Andy Fuhrman	954-661-4015 afuhrman@allstatemanagement.com
Legislative	Rob Richardson	919-515-5653 rob_richardson@ncsu.edu
Meeting Planning	Rob Richardson	919-515-5653 rob_richardson@ncsu.edu
Membership	Marc Bellaud	508-865-1000 mbellaud@solitudelake.com
Nominating	Mark Heilman	317-388-3336 markh@sepro.com
Past President's Advisory	Mark Heilman	317-388-3336 markh@sepro.com
Program	Ryan Thum	406-994-4039 ryan.thum@montana.edu
Proposal Review	Mark Heilman	317-388-3336 markh@sepro.com
Publications	Jay Ferrell	352-392-7512 jferrell@ufl.edu
Regional Chapters	Gray Turnage	662-325-7527 gturnage@gri.msstate.edu
Scholastic Endowment	Tom Warmuth	336-402-4449 twarmuth@biosafesystems.com
Strategic Planning	Mark Heilman	317-388-3336 markh@sepro.com

Student Affairs	Sam Sardes	561-201-0713 sam.sardes@solitudelake.com
Website	Brett Hartis	828-442-7339 brett.hartis@duke-energy.com

Special Representative

AERF	Carlton Layne	678-773-1364 layn1111@bellsouth.net
BASS	Jeremy Slade	662-617-4571 jeremy.slade@upl-ltd.com
CAST	Lyn Gettys	954-577-6331 lgettys@ufl.edu
NALMS	Terry McNabb	360-527-1271 tmcnabb@aquatechnex.com
RISE	Sam Barrick	317-216-8073 samb@sepro.com
Women of Aquatics	Amy Kay	715-891-6798 akay@cleanlakesmidwest.com
WSSA	Rob Richardson	919-515-5653 rob_richardson@ncsu.edu
Science Policy Director	Lee Van Wychen	202-746-4686 lee.vanwychen@wssa.net

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting

March 18, 2021

Virtual Meeting via Zoom Platform

The Board of Directors of the Aquatic Plant Management Society, Inc. (APMS) met on Thursday, March 18, 2001, via virtual meeting platform. President Ryan Wersal called the meeting to order at 10:02 a.m., EDT.

Officers and Directors present at roll call were:

Ryan Wersal, President

Mark Heilman, Immediate Past President

Ryan Thum, President Elect

Brett Hartis, Vice President

Justin Nawrocki, Treasurer

Amy Giannotti, Secretary

Jason Ferrell, Editor

Marc Bellaud, Director

Amy Ferriter, Director

Lyn Gettys, Director

Chris Mudge, Director

Michael Greer, Director

Erika Haug, Director

Gregory Chorak, Student Director

There were no proxies and no visitors in attendance.

Committee chairs and special representatives in attendance for all or portions of the meeting included:

John Madsen, Awards Committee

James Leary, Bylaws and Resolutions Committee

Andy Fuhrman, Finance Committee

Rob Richardson, Legislative & Meeting Planning Committees

Marc Bellaud, Membership Committee

Mark Heilman, Nominating, Past President's Advisory, Proposal Review, & Strategic Planning Committees

Ryan Thum, Program Committee

Jay Ferrell, Publications Committee

Gray Turnage, Regional Chapters

Sam Sardes, Student Affairs Committee

Carlton Layne, AERF Representative

Jeremy Slade, BASS Representative

Lyn Gettys, CAST Representative
Amy Kay, WOA Representative
Rob Richardson, WSSA Representative
Lee Van Wychen, Science Policy Director

MINUTES

After Roll Call, President Wersal asked for the approval of three sets of meeting minutes from October 8, October 14, and November 6, 2020, all held virtually via Zoom.

Jay Ferrell motioned to approve the Draft Minutes as submitted in the Midyear Board Book. The motion was seconded by Lyn Gettys. The motion passed without dissenting vote.

PRESIDENT'S REPORT

President Wersal summarized the correspondence from 2020 where APMS was asked to be a co-signatory on several letters to Congress. President Wersal noted the importance of key meetings with congressional staffers in November 2020 to discuss upcoming legislation that would impact APM activities. Past Presidents Heilman, Richardson, and Layne participated along with President Wersal and Science Policy Director, Lee Van Wychen in these discussions. President Wersal expressed hope that APMS would be continuing to participate in these meetings in the future.

President Wersal acknowledged efforts by John Madsen who offered APMS presentations at the WAPMS And NEAPMS meetings. President Wersal thanked Erika Haug and Amy Giannotti for disseminating the surveys to gauge interest in the 2021 APMS Annual Meeting and possible strategies for attendance given the pandemic and restrictions on travel.

TREASURER'S REPORT

Treasurer Justin Nawrocki provided a summary of account information and noted the transition of duties from Jeremy Slade. Nawrocki presented the 2020 Income and Expense Report as well as the 2021 Income and Expense Report (through February 26, 2021). Reminders to renew Sustaining Memberships were sent out in January by Secretary Giannotti, and several of those have been received which helps. Nawrocki indicated that money may need to be transferred out of the investment account since APMS did not bring in money during 2020 because the Annual Meeting was not held.

{Balances below reflect April 16, 2021 – details specific to each account will be updated in July after the Annual Meeting and Membership Renewals coincide with the registrations.

Checking \$9,525.38 - 4/16/2021

Investment \$274,801.64 - 4/16/2021

Scholastic Checking \$31,574.28 - 4/16/2021

GSRG \$179,471.39 - 4/16/2021}

Nawrocki mentioned that dues to CAST, RISE, and WSSA are approximately \$9,000.00 and asked the Board for discussion.

SECRETARY'S REPORT

Secretary Amy Giannotti stated that annual renewal reminders for individual and student memberships will go out in summer 2021, prior to the July meeting. (Annual membership renewals were supposed to be tied to the registration for the 2020 Annual Meeting, but the 2020 Annual Meeting was not held.)

Two electronic surveys were administered to gauge anticipated attendance at the Annual Meeting in 2021. 59 respondents answered the first survey in January, and 89 answered the second in March. Results were inconclusive still as many travel restrictions have not been lifted by employers.

Giannotti presented the expenses incurred thus far and the proposed budget for the Secretary, with expected expenses including social media scheduling software and travel to the Annual Meeting.

The APMS Newsletter was published in November 2020 and the next issue will be published after the Midyear BOD Meeting in Spring 2021 once plans for the Annual Meeting have been decided.

Giannotti has been assisting libraries and subscribers with login access to the JAPM, which is now available at no cost online. Once the new website is complete (April 2021), electronic access will be available to the public.

EDITOR'S REPORT

Editor Jason Ferrell indicated that the pandemic has resulted in more submissions to the JAPM, with 33 received for 2020. For this last year, 64% of submissions were accepted. The last issue (Vol 59, 2021) incorporated eight papers and one note for a total of nine manuscripts. Printing has been suspended as the JAPM has moved to online delivery, and APMS is working with APEX for login access for subscribers and the public.

Ferrell also mentioned that the special issue of the JAPM focusing on The San Joaquin Delta Project has been slow to process through printing. This issue contains 13 papers and will be the last physically printed issue. John Madsen is the lead contact for this issue. Hardcopies will be

available for authors and for USDA, and page charges will be increased such that there is no cost to APMS.

Justin Nawrocki motioned to approve the Officer Reports as is. The motion was seconded by Mark Heilman. The motion passed without dissenting vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: No official report was provided by Chair John Madsen prior to the meeting; however, Madsen presented a slate of nominees during the meeting and documents are forthcoming.

John Madsen motioned to approve the slate of nominees presented by the Awards Committee. The motion was seconded by Mark Heilman. The motion passed without dissenting vote.

Bylaws and Resolutions Committee: No report at this time.

Education, Outreach, and Website Committee: Chair Brett Hartis provided an update on the status of the new APMS website. The launch of the new site is scheduled for April 19, 2021, with a much cleaner look and more user-friendly interface. Hartis, Heilman, and Giannotti are meeting weekly with APEX to cover all of the plans for the overhaul and ensure continuity of content.

Hartis mentioned that APEX would like Justin Nawrocki to secure a PO Box address for APMS.

Hartis announced that the herbicide resistance/stewardship outreach presentations have been upgraded by Jeff Schardt and posted to the website. Hartis has also been working with several regional chapters who have expressed an interest in hosting a Plant Camp in the future.

Hartis provided a summary of social media analytics for LinkedIn, Facebook, Instagram, and Twitter. Hartis acknowledged Madsen and Giannotti for their hard work and was pleased that the content was relevant, timely and the audience is growing.

Heilman offered thanks for efforts and expressed interest in expanding ongoing collaborations with other organizations with similar missions in natural resource management.

Exhibits Committee: No report at this time.

Finance Committee: Chair Andy Fuhrman provided an update on the investment accounts. APMS ended 2020 with a balance of \$272,755 in the Aquatic Plant Account, a decrease of \$2,654.84 from the previous year. The Aquatic Endowment had a balance of \$171,010.05, up \$17,891.06 from last year. As of January 1, 2021, the total was \$443,765.43, an increase of

\$15,236.22. (Fuhrman reported there had been a \$25,000 withdrawal from the Aquatic Plant account to offset losses by not having an Annual Meeting.)

As of February 28, 2021, the total investment account balance was \$448,279.84 (Aquatic Plant \$275,130.10 and Aquatic Endowment \$173,149.74). Fuhrman said the current investment strategy was safe and conservative.

Fuhrman asked the BOD to discuss the possibility of converting the society from a 501c5 to a 501c3. It was decided that since APMS is headquartered in Florida, the legal assistance needs to come from a Florida-based attorney. The most recent quote for this filing was \$10,000. The BOD suggested Fuhrman investigate to see if this can be accomplished for \$5,000 and report back.

Legislative Committee: Chair Rob Richardson mentioned that the recent change in administration at the federal level has called for a review of the WOTUS rule. Richardson also noted the significance of getting a weed scientist hired into the USDA ARS position. This, combined with the congressional staffer visits, bodes well for long-term relationships with respect to policymaking in weed science.

Richardson said over \$100 million has been authorized under the 2020 Water Resources Development Act (WRDA) for new aquatic invasive species efforts; however, support is needed for appropriations requests for USACE and USDOL invasive species management initiatives.

Meeting Planning Committee: Chair Rob Richardson said that New Orleans is “opening up” and easing restrictions. He said that Florida Event Planning and Meeting Service has reached a verbal agreement with the Hilton, whereby: “The Hilton will not hold APMS to a room block minimum and will reduce the food and beverage minimum in direct proportion to the reduction of the room block. If the group block consumes 70% of the room block, then the food and beverage minimum is 70% of the agreed \$40K food and beverage minimum. If the group block consumes 30% of the room block, then the food and beverage minimum is 30% of the agreed \$40K food and beverage minimum.”

Discussion centered on options for how to host the hybrid portion of the meeting. WSSA just held a virtual meeting and had double the number of attendees despite being virtual only.

Richardson motioned to recommend signing the contract amendment and recommended proceeding with a hybrid meeting approach (small in person plus a virtual component) for 2021. The motion was seconded by Mark Heilman. The motion passed without dissenting vote.

Richardson announced the Committee has reviewed the two options for 2023 – Indianapolis and Cleveland – and asked for discussion from the group. Concerns were expressed about the potential for student field trips if Indianapolis was selected, but the meeting space in Indianapolis seems a better alternative given proximity to leisure activities in the area.

Justin Nawrocki motioned to recommend that Florida Event Planning and Meeting Service explore the possibility of holding the 2023 Annual Meeting in Indianapolis. The motion was seconded by Brett Hartis. The motion passed without dissenting vote.

Richardson proposed offering compensation to Bill Torres after the 2021 Annual Meeting to recognize all of the work that he has done on behalf of APMS when meetings had to be cancelled. The discussion favored supporting this, but it will be revisited in July once the 2021 Annual Meeting has been fully decided.

Membership Committee: Chair Marc Bellaud reported there has not been any activity in the Membership Committee this year due to the uncertainty of the Annual Meeting Status for 2021. He emphasized the need to ramp-up the 2021 Annual Meeting Announcement and Membership reminders once a decision has been made. Several expressed concern that student participation may decline if the Annual Meeting is held in-person. Bellaud thanked the website and social media efforts for their efforts to retain and recruit members.

Membership Committee: Chair Mark Heilman reported that Directors Amy Ferriter and Marc Bellaud are rotating off after this year, and Heilman proposed the following slate of nominees to fill those positions on the Board:

- Jason Ferrell, nominated as Vice-President candidate
- Toni Pennington, has served as WAPMS Secretary & Treasurer
- Matthew Johnson, has served as Past-President of MAPMS

Ferrell's position as VP would mean replacing him as Editor of the JAPM. Discussions are in place to fill that position if necessary.

Ryan Thum motioned to recommend the slate of nominees. The motion was seconded by Chris Mudge. The motion passed without dissenting vote.

Past Presidents' Advisory Committee: No report at this time.

Program Committee: Chair Ryan Thum will work with the plan to develop a program for a hybrid meeting. Thum and APEX will coordinate the submission of abstracts with the new website design to capture options for presenting in-person or virtually. Sessions will be organized with themes once all submissions are received. A keynote speaker will likely come from Louisiana, and Thum will work with JJ Ferris (Program Chair of MSAPMS) as this is a joint meeting.

Proposal Review Committee: No report at this time.

Publications Committee: Chair Jason Ferrell reports APMS has never published meeting abstracts before and called for discussion regarding searchability, availability, and how far back

this should go. The abstracts in the Annual Meeting Program are posted on the website, but those are not searchable. Hartis said he will discuss with APEX in the next Website Committee meeting and report back.

Regional Chapters Committee: No report at this time, but they will meet prior to the July 2021 Annual Meeting.

Scholastic Endowment Committee: No report at this time.

Strategic Planning Committee: Chair Mark Heilman suggested Dr. Osborne is willing to assist as facilitator for the January 2022 Midyear Board Meeting as APMS is in the last year of the 2017-2021 Strategic Plan. Full plan is under the Documents section of the APMS website. Heilman will determine cost for this and bring summary of past discussions to the July 2021 Annual Meeting.

Student Affairs Committee: Chair Sam Sardes expressed concern that faculty and students are not likely to attend an in-person meeting in July, but all have expressed support for a virtual meeting option. Because of challenges associated with the pandemic, there will be no student tour at the 2021 Annual Meeting as transportation logistics, etc. are not possible given constraints of who is vaccinated and social distancing. Sardes suggested sponsoring a luncheon/happy hour for students with a Door Dash (or similar) gift card to encourage camaraderie and networking.

SPECIAL REPRESENTATIVE REPORTS

AERF: No report at this time.

BASS: Representative Slade provided an update on the Bassmaster Classic for 2021 and his correspondence with Gene Gilliland. There is still interest in co-sponsoring (with AERF) a minigrant for projects related to aquatic plant management and bass conservation, whereby APMS would send out the RFP and write criteria for the endeavor. Slade asked Giannotti to look for a previous RFP in the files.

Jeremy Slade motioned to provide up to \$1,500.00 APMS funding for the minigrant with the remainder coming from AERF. The motion was seconded by Mark Heilman. The motion passed without dissenting vote.

CAST: Representative Gettys reported that CAST is moving forward with the HABs white paper proposed in 2017. The paper will have 10 sections, and Gettys is serving as task force liaison. Dail Laughinghouse is the task force chair. The goal is to have this finished by fall. Gettys also reported that the first of the month CAST "Friday Notes" (weekly newsletter) will be disseminated to APMS members.

Lyn Gettys motioned to renew the current CAST membership for APMS at \$1,500.00. The motion was seconded by Chris Mudge. The motion passed without dissenting vote, and Gettys will send the invoice to Treasurer Nawrocki.

NALMS: No report at this time, but an update was provided in the Board Book.

RISE: No report at this time. Heilman mentioned that Megan Provost of RISE did indicate she would attend the 2021 Annual Meeting and may offer a presentation.

WOA: Representative Kay submitted a report to the Board Book and Secretary Giannotti summarized the goals, membership and mentoring theme, and sponsorships available during the meeting.

WSSA: Representative Richardson reported that the WSSA Annual Meeting was well attended with 303 presenters and 580 total registrants. Challenge was getting Sustaining Members to exhibit virtually. The virtual conference was recorded and hosted by Virtual Event Space. The 2022 Annual Meeting is planned for Vancouver, so status is unknown at this time.

Science Policy Report: Representative Van Wychen summarized the most recent Congressional visits, events of NISAW in February, and what is planned for NISAW in May. Van Wychen stressed the need for securing appropriations in the 2020 Water Resources Development Act. Van Wychen submitted a detailed report with other legislative updates for the Board Book.

Jay Ferrell motioned to accept the reports of the Committees and Special Representatives. The motion was seconded by Marc Bellaud. The motion passed without dissenting vote.

OLD BUSINESS: NONE

NEW BUSINESS:

Lee Van Wychen offered his support for NISAW's second week of outreach coming up in May. It was suggested that APMS could contribute a presentation to illustrate our expertise. It is estimated that NAISMA's social media reaches 8,0000 people during these key weeks.

Continued discussion on how APMS can expand strategic partnerships, attract new members, and expand the JAPM. Please contribute thoughts, ideas, and suggestions for the meeting in July 2021.

Lyn Gettys motioned the Board to adjourn the meeting. The motion was seconded by Jay Ferrell. The motion passed without dissenting vote.

The Board meeting adjourned at 1:54 pm EDT.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

**Minutes of the Pre-Midyear Board of Directors Meeting via Email
March 24-26, 2021 – via email**

Background: Mark Heilman and Ryan Wersal have been in communications with Belle Bergner, Executive Director of NAISMA, and NAISMA is interested in partnering with APMS as they have noticed their members are increasingly interested in aquatic plant management issues. They would like APMS to sponsor a session in their upcoming webinar on May 20, 2021. The total estimated reach is a minimum of 25,000 impressions.

Motion 1: APMS becomes a “Leader” level member of NAISMA. Cost is \$500 annually.

Motion 2: APMS sponsors the webinar session for \$1,500.

Motion: John Madsen

Second: Amy Ferriter

President Ryan Wersal called for discussion through March 26, 2021, via email. Period of discussion closed with call for a vote.

Date called for vote: March 26, 2021

The motion passed without dissenting vote.

Attachments: APMS and NAISMA 03232021

APMS Interactions with North American Invasive Species Management Association (NAISMA)
John D Madsen, March 23, 2021

Background: The North American Invasive Species Management Association is an organization that focuses on coordinating federal, state and local (e.g., county) groups on the prevention and management of invasive species. Originally organized as the North American Weed Management Association, it was founded primarily to coordinate the activities of the county and state Weed Management Areas with Federal agencies to manage primarily rangeland weeds. From their webpage, “NAISMA’s mission is to support, promote, and empower invasive species prevention and management in North America.”

While they have individual memberships, their primary funding and organization power comes from their Organizational Partnerships. These partnerships are at seven levels, and these dues are paid annually. The basic “Supporter” level is \$150, the “Advocate” level is \$300, and the “Leader” level is \$500. Other levels are, obviously, higher. More information is available at www.naisma.org.

NAISMA would be a strong collaborator with APMS, particularly in the western United States.

MOTION 1: APMS should join NAISMA as an Organization Partner at the “Leader” level for \$500.

Background: NAISMA has organized a series of webinars regarding invasive species management. Apparently, not all webinars are sponsored, but some are. Sponsors have their name and logo prominently displayed in the advertising announcements and on the opening slide. Webinar sponsorships cost \$1,500. More information is at www.naisma.org.

Dr. Mark Heilman (APMS Past President) has already been named on their webpage as giving a webinar on May 20 on “Aquatic Plant Management Priorities,” and event presented in partnership with the APMS. However, no sponsors are listed.

Dr. John Madsen (USDA ARS and APMS Past President) is also scheduled for a webinar “Flowering Rush Biology, Management, and Control,” for September 15. He is simply listed as USDA. Clearly, NAISMA has an appetite for aquatic plant management topics.

MOTION 2: APMS should sponsor the May 20 webinar on “Aquatic Plant Management Priorities” by Dr. Heilman, and allocate the cost of \$1,500.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

**Minutes of the Post-Midyear Board of Directors Meeting via Email
April 5, 2021 – via email**

Background: The upcoming APMS Annual Meeting is planned to be both a virtual and in-person platform, and discussion regarding reduction in sponsor costs was relevant in hopes that the tradeshow would still be well attended.

Motion: Dean Jones motioned to reduce the sponsor level amounts by 20% on a one-time basis as a Covid concession for the 2021 Annual Meeting in New Orleans, Louisiana.

***Motion:** The Exhibits Committee, Dean Jones, Chair*

***Second:** Brett Hartis*

President Ryan Wersal called for discussion through April 7, 2021, via email. Period of discussion closed with call for a vote.

Date called for vote: April 7, 2021

The motion passed without dissenting vote.

Attachments: Supporting Documents for APMS Meeting

APMS Board,

Recently the APMS Board decided to move forward with an in-person meeting in New Orleans in July. Following the announcement there have been questions concerning the meeting, tradeshow, sponsorship levels, registration and exhibitor fees, virtual meeting component, etc. While we do not have all the answers, we do have additional information concerning the tradeshow. Please refer to the attached email from Bill Torres. As indicated in his email, the hotel can accommodate a relatively normal tradeshow with the opportunity to move to a larger room if participation exceeds the calculated numbers. While we know a meeting and trade show is possible, how many will attend an in-person meeting remains unknown. We also know APMS annual meetings cannot occur without sponsor and exhibitor contributions as noted in Table 2. For this reason, the Exhibits Committee agrees to recommend reducing Sponsorship Level amounts by 20% as depicted in Table 1. We feel this demonstrates our willingness to work with participants concerned with meeting participation and uncertainties while protecting funding for the society. The benefits associated with the levels will remain unchanged as shown in Table 3.

<u>Level</u>	<u>Current</u>	<u>Covid Concession</u>
Platinum	\$10,000	\$8,000
Gold	\$7,500	\$6,000
Silver	\$5,000	\$4,000
Bronze	\$2,500	\$2,000
Contributor	\$500	\$400

Table 1

At this point, the committee does not feel compelled to reduce the Exhibitor Fee of \$800. We do not believe reducing the fee to \$700 will be a deciding factor in someone exhibiting at the show. We also cannot create specific sponsorship levels for the virtual meeting without knowing the details of that component of the meeting.

I'd like to thank Todd Olson and Carl Della Torre for their time and contributions with the Exhibit Committee discussions and recommendation.

Motion:

I, Dean Jones, motion the Board reduce the Sponsor Level amounts by 20% on a one-time basis as a Covid concession for the 2021 Annual Meeting in New Orleans, LA.

		Attend	Funding Source, Amount & Percentage for Meeting							Meeting Cost Analysis		
Year	Venue		Sponsor	%	Exhibitor	%	Registration	%		Income	Expense	Net
2019	San Diego	202	53,719	46	18,400	16	44,070	38		116,189	100,300	15,889
2018	Buffalo	201	57,140	56	14,400	14	31,315	30		102,856	85,549	17,307
2017	Daytona Beach	217	71,065	56	18,400	14	38,880	30		129,874	89,601	40,273
2016	Grand Rapids	172	45,360	52	15,400	17	27,021	31		88,706	65,892	22,814
2015	Myrtle Beach	248	47,712	43	18,200	16	45,620	41		114,058	125,133	-11,075
2014	Savannah	213	49,739	47	19,600	19	36,495	34		107,734	100,592	7,142
2013	San Antonio	208	52,472	48	18,900	18	37,180	34		108,552	78,844	29,708
Average		209	53,887	50	17,614	16	37,226	34		109,710	92,273	17,437

Table 2

Sponsor Levels and Benefits	Platinum	Gold	Silver	Bronze	Contributor	Silent Auction Contributor
Contribution	\$8,000	\$6,000	\$4,000	\$2,000	\$400	
Complimentary meeting registration(s)	4	3	2	1		
Complimentary booth space(s)	2	1				
Present current data on research / operations related to plant management	10 min	5 min				
Acknowledgement on APMS Website with direct link to your company's home page	✓	✓	✓	✓	✓	✓
Acknowledgement on APMS Meeting Sponsors Program Page	✓	✓	✓	✓	✓	
Acknowledgement on APMS Meeting Sponsors Signs	✓	✓	✓	✓	✓	
Acknowledgement on APMS Sponsor Sign for Refreshment Breaks	✓	✓	✓	✓		
Acknowledgement on APMS Sponsor Sign for Continental Breakfast	✓	✓	✓	✓		
Acknowledgement on APMS Sponsor Sign for Poster Session Reception	✓	✓	✓			
Acknowledgement on APMS Sponsor Sign for President's Reception	✓	✓	(✓)			
Acknowledgement on APMS Sponsor Sign for Awards Reception and Banquet	✓	(✓)	(✓)			
Acknowledgement in APMS newsletter following the annual meeting	✓	✓	✓	✓	✓	✓

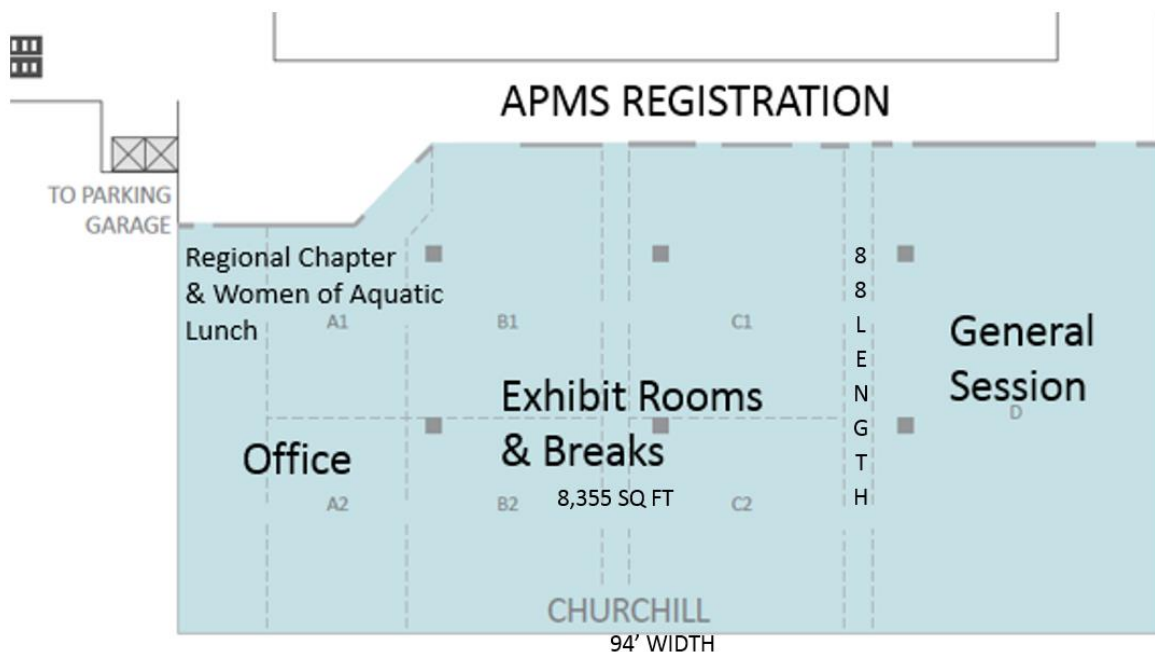
(✓) – Acknowledgement applied to Gold or Silver level sponsors if there is no Platinum sponsor

Table 3

Good evening Dean,

Here are the details on the meeting space that we currently have under contract which is for Churchill B1, B2, C1 & C2 for a total of 8,355 square feet. The room is 94' wide and 88' long. If each exhibit is provided 12' in width & length (144 sq.ft) to accommodate a 6' table & 3' of distance each side of the table (essentially placing 6' of distance between each table). This would allow for 8 tables along the 94' of width that does not have doors, and 7 tables on each side of the 88' of length. I believe we could place 4 tables along the top side where the doors are. Just having tables along the perimeter of the room would allow for 26 exhibit tables. If you needed to fit more exhibit tables, another 6 tables could fit down the center of the room. Room also needs to be left for the food and beverage tables.

So here are my calculations - 26 tables @ 144 sq. ft. each (3,744 sq. ft.), 3 food & beverage tables would take up 432 sq. ft. for a total of 4,176 sq. ft. allowed for all the tables. If we subtract 4,176 from the total square footage of the room (8,355), that leaves 4,179 sq. ft. of free space. If we incorporate social distancing of 36 sq. ft. of space per person and divide that into the remaining 4,179 square feet, it would allow for 116 attendees to be in the room all at 6 feet apart plus 26 representatives at each exhibit table for a total of 142 people in the room.



If registration turns out to be more than 140 attendees or you have more exhibitors, the exhibit area and general session could be moved into the Grand Ballroom that would offer 13,391 square feet.

Hope this information helps. Let me know if you need more information.

Bill Torres
FL Event Planning & Meeting Service
850-519-4310



THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

**Minutes of the Pre-Midyear Board of Directors Meeting via Email
April 8, 2021 – via email**

Background & Motion: *The APMS 2021 Annual Meeting shall comprise both an in-person and a virtual option for registrants. The budget for the virtual portion shall not exceed \$10,000.*

Motion: *The Planning Committee, Rob Richardson, Chair*

Second: *Amy Ferriter*

President Ryan Wersal called for discussion through April 9, 2021, via email. Period of discussion closed with call for a vote.

Date called for vote: April 9, 2021

The motion passed without dissenting vote.

Attachments: Supporting Documents for APMS Meeting

Supporting Documents for APMS 2021 Annual Meeting

All,

The Ad Hoc committee met yesterday:

Rob Richardson (APMS)

Ryan Thum (APMS)

JJ Ferris (MSAPMS)

Chris Mudge (APMS/MSAPMS)

Wes Anderson (MSAPMS)

Brett Hartis (APMS/MSAPMS)

Gray Turnage (MSAPMS)

Ryan Wersal (APMS)

As you can see below Rob Richardson has put forth a motion from the committee for Board consideration and vote (Please read Rob's email in its entirety). We need to move quickly on this so that Rob can confirm dates with NC State Extension for hosting the virtual portion of the meeting. Per Rob's comments below **Board members would only need to attend the July 29 portion live for business meeting and board meeting which are proposed to be on Thursday morning and then that afternoon (July 29).** So please hold that date and those times on the calendar. If there are specific questions please reach out to Rob or one of the Ryan's.

Do I have second on the motion?

Once there is a second please start discussion. I will call for a vote tomorrow afternoon.

Thank you,

Ryan

From: Rob Richardson <rob_richardson@ncsu.edu>

Sent: Wednesday, April 7, 2021 3:09 PM

To: Erika Haug <ejhaug@ncsu.edu>

Cc: Dean <dean.jones@upl-ltd.com>; Wersal, Ryan M <ryan.wersal@mnsu.edu>; Thum, Ryan <ryan.thum@montana.edu>; Hartis, Brett <Brett.Hartis@duke-energy.com>; Amy Giannotti <amy@aquastemconsulting.com>; Jason Ferrell (jferrell@ufl.edu) <jferrell@ufl.edu>; Mark Heilman <MarkH@sepro.com>; Justin Nawrocki <justin.nawrocki@upl-ltd.com>; Marc Bellaud <mbellaud@solitudelake.com>; Amy Ferriter <Amy.Ferriter@nutrien.com>; Christopher.R.Mudge@usace.army.mil; Chorak, Gregory <gregory.chorak@student.montana.edu>; Lyn Gettys <lgettys@ufl.edu>; Greer, Michael J CIV USARMY CELRB (USA) <Michael.J.Greer@usace.army.mil>

Subject: APMS Ad Hoc 2021 Meeting Committee Recommendation

President Wersal,

Please see the recommendation below from the ad hoc 2021 annual meeting committee that I would like you to consider as a formal motion. Supporting information follows, but is for reference and not part of the motion.

Recommendation: That the APMS 2021 annual meeting shall comprise both an in-person option as well as a virtual meeting option for registrants. The budget for the virtual portion shall not exceed \$10,000.

Supporting information. (Reference material only)

July 12 - Board Meeting 1 (in-person with conferencing ability for board members that cannot travel)

July 13 - APMS/MSAPMS in-person meeting. Talks presented live and recorded.

July 14 - APMS/MSAPMS in-person meeting. Talks presented live and recorded.

July 27 (proposed), Tuesday morning - Virtual meeting talks within 4 hour block.

July 28 (proposed), Wednesday morning - Virtual meeting talks within 4 hour block.

July 29 (proposed), Thursday morning - Virtual APMS business meeting (1 hr) followed by virtual talks (total 4 hour block)

July 29 (proposed), Thursday afternoon - Virtual APMS board meeting 2

- NCSU Extension IT has agreed to help with the virtual meeting. They will provide licensed zoom access for up to 300 attendees with background IT support which includes system set up and training of moderators at no cost. We may also solicit additional services from them for processing of presentations if needed. (I believe we should get some outside help with presentations so volunteers are not overburdened.)

- NCSU EIT is now holding the 27-29 dates for us. The license only allows 1 meeting per day with that attendee limit.

- Authors will record voice over powerpoint and upload via title/abstract platform by a hard deadline. Maybe July 9 for virtual deadline to allow processing time.

- Speakers at in-person meeting will be recorded, so they don't need to put any additional effort into the virtual component.

- Virtual program will consist of both recorded in-person as well as uploaded presentations.

- Virtual program will be available for a period of time (maybe 30 days) for on-demand streaming by registered attendees.

- Exact format will be determined based on total number of submissions. If a high number, in-person recorded talks could be packaged into an on-demand stream option to open virtual slots.

- No in-person poster submissions will be accepted, but a virtual poster session will be held in some format. This may be an on-demand viewing option rather than a live option.

- Virtual talks are legally required to include closed captioning. The NCSU contracted service charges \$1.25/minute. 12 hours of programming would translate to \$900.

- We will need someone to record the in-person meeting. I have asked Bill Torres if he has the capacity to do this. I believe this would fall outside our existing contract so some additional expense may be required.

- I expect virtual total costs to be under \$3,500, but I requested up to \$10,000 just in case. 40 virtual only attendees should more than cover this expense. The majority of IT will be provided at no cost.

- We will need around 3 moderators for the virtual meeting. I have at least 3 people that I can volunteer for this, but it would certainly be welcome for others to volunteer.

- There will be one registration fee. All registrations have access to all meeting components. However, registrants have until 2 weeks prior (need to determine exact deadline) to notify APMS that they will attend in-person.
- Registration form should include a check box to capture those that plan to attend in-person.
- Registration form should include a mandatory check box that in-person registrants understand and agree to comply with Covid restrictions/guidelines.
- One evening of the in-person meeting will be a reception with MSAPMS programming (awards, etc.). All meeting attendees are welcome. We will try to record any programming and offer for on-demand streaming as part of virtual.
- Graduate students will be encouraged to attend virtually. They may still attend in-person, but there will be no incentives for in-person attendance, no student tour, and no student contest. I need to discuss virtual specifics with student committee.
- Sustaining members can exhibit in-person and they will also be given recognition at the virtual meeting. At a minimum, each virtual session will include sponsor recognition.
- Board members would only need to attend the July 29 portion live for business meeting and board meeting.
- Ryan Thum will edit the call for papers based on board decision on this. We will provide about 30 days for title submission from release of CfP.

I'm sure I've missed something, but that's a good bit...

APMS Prospective 2021 Board Nominations and Status

Mark Heilman – APMS Immediate Past President and Nominations Chair

18 March 2021

Three Directors have terms ending this July:

- Immediate Past President Mark Heilman
- Director Marc Bellaud
- Director Amy Ferriter

Three director positions need to be filled therefore: Vice President (to begin 4-year Presidential cycle) and two open Director-at-Large positions. Candidates have been identified and confirmed for these positions.

- Vice President – Dr. Jason Ferrell – Director of the UF Center for Aquatic and Invasive Plants
- Director – Dr. Toni Pennington – Senior Aquatic Biologist with Environmental Science Associates, Bend, OR
- Director – Mr. Matthew Johnson – President of Aquatic Control, Seymour, IN

Dr. Pennington has worked in a variety of consultancy positions on the west coast since completion of her dissertation under the direction of Dr. Mark Sytsma. She has closely collaborated with many APMS scientists and managers over the years. She has been very active with Western APMS serving recently as Secretary and Treasurer.

Mr. Matt Johnson grew up in aquatics with his father, Bob Johnson, being one of the founders of Midwest APMS. Along with his leadership of Aquatic Control, a major aquatic resource management company in the Midwest, he is currently President of the Midwest APMS, his second term as President (2013), and also an active chair of the MAPMS Government Affairs Committee.

Dr. Ferrell is well known to the Board and no introduction is needed. Jay's recent success as Editor and strong contributions to the APMS and its Board of Directors make him a strong candidate for the APMS Presidential track. However, comment on his current term as Editor is required. Jay is scheduled to complete his term as Editor in July 2022. There have been active discussions with Dr. Stephen Enloe at University of Florida regarding his interest in serving as APMS Editor. Stephen is also current Associate Editor with the Journal of Invasive Plant Science and Management. Stephen is actively considering his future status with IPSM relative to possible service as APMS Editor. At this time, his status is uncertain but should be clarified shortly. If Stephen determines he cannot serve, work will continue with current Editor Ferrell to ascertain best alternative candidates for Editor to ensure a full candidate slate for July election.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

**Minutes of the Post-Midyear Board of Directors Meeting via Email
May 6, 2021 – via email**

Background: Dr. Ramon Leon was nominated to serve as Editor of the Journal of Aquatic Plant Management to replace Dr. Jason Ferrell who is entering the presidential preparation circuit.

Motion: Dr. Ramon Leon to be placed on the slate of nominees to serve as Editor.

***Motion:** Mark Heilman*

***Second:** Lyn Gettys*

President Ryan Wersal called for discussion through May 5, 2021, via email. Period of discussion closed with call for a vote.

Date called for vote: May 5, 2021

The motion passed without dissenting vote.

Attachments: Bio and headshot for Dr. Ramon Leon

Dr. Ramon Leon – Nominee for Editor of JAPM

Dr. Ramon Leon is an associate professor of Weed Biology and Ecology in the Department of Crop and Soil Sciences, North Carolina State University, USA. Previously, he was an associate professor of Weed Science at the University of Florida, USA, professor of Weed Science at EARTH University in Costa Rica, and assistant professor at California Polytechnic State University, San Luis Obispo, USA. Dr. Leon obtained a Ph.D. (2005) and M.S. in Crop Production and Physiology (2003) with emphases on Weed Science and Seed Science, and a Ph.D. in Genetics (2005) from Iowa State University, and a B.S. in Agronomy (2000) from the University of Costa Rica. His research has focused on understanding changes in weed dynamics in response to management and environmental factors. He has published over 112 peer-reviewed scientific articles, 2 book chapters, and 202 abstracts. He is an associate editor for Weed Science, Weed Research, Peanut Science, and previously for the journals Weed Technology and Agronomy.



President's Report

This will be submitted verbally at the Board Meeting and noted in the Minutes.

Ms. Brenda Mallory
Chair, Council on Environmental Quality
Executive Office of the President
730 Jackson Place NW
Washington DC 20503

June 15, 2021

Dear Ms. Mallory:

The North American Invasive Species Management Association (NAISMA) is a network of professionals who implement management programs to prevent the detrimental impacts of invasive species to North America's lands and waters. NAISMA and the partner organizations that are signatories to this letter urge you to promptly approve the Department of the Interior's request for a number of categorical exclusions under the National Environmental Policy Act for invasive species control.

NAISMA's mission is to support, promote, and empower invasive species prevention and management in North America. We have members and partners in all fifty states, as well as in Canada and Mexico. For twenty-eight years, NAISMA has been supporting invasive species managers and growing programs that bridge jurisdictional and geographic divides.

Invasive species create an estimated \$137 billion annual strain on the US economy, and have contributed to the need to list more than 42 percent of the organisms currently listed under the Endangered Species Act. As we have seen with COVID-19, invasive species can pose serious threats to human health.

The problem is a national one, with numerous local manifestations, from nutria degrading valuable wetlands from Delaware to California, to emerald ash borers threatening the fall foliage in West Virginia that attracts so many tourists each year. Eurasian watermilfoil and zebra or quagga mussels impair waterways and water infrastructure, while new variants of hydrilla plague the Connecticut River and water chestnut covers our riverbanks.

Invasive grasses and tree-killing pests also lead to greater and more severe wildfires across the West, introducing large quantities of greenhouse gases into the atmosphere and endangering human health, public safety, and infrastructure. As James Chapin observed in an Op Ed in the Washington Post on April 8, the warming associated with climate change is also allowing invasive species in Florida to not just spread East-West across the country, but to spread more easily northward. Control of invasive species must therefore be an essential part of the Biden Administration's climate change mitigation strategy if we are to truly protect America's ecosystems.

NAISMA requests that you promptly approve the Department of the Interior's request for a number of categorical exclusions under the National Environmental Policy Act for invasive species control. Interior has developed hundreds of pages of documentation that demonstrate a track record of no significant impact from these control activities. Without the ability to use categorical exclusions to promptly control invasive animals and plants, they will reproduce and spread, turning small, localized problems into geographically larger, more environmentally complex, and more expensive problems.

Thank you for your attention to this matter, so we can more effectively mitigate the effects of climate change and better protect America's ecosystems. Feel free to contact me with any questions at bbergner@naisma.org or 414.215.0221.

Sincerely,



Belle Bergner, Executive Director
North American Invasive Species Management Association

Ryan M. Wersal, President
Aquatic Plant Management Society

Doug Johnson, Executive Director
California Invasive Plant Council

John D. Byrd, Secretary
Mississippi Vegetation Management Association

John Reynolds, Executive Director
National Roadside Vegetation Management Association

Rick Otis, Executive Director
Reducing the Risks of Invasive Species Coalition

Jasmine Reimer, Chair
State Weed Coordinators Alliance

David Cornett, Executive Secretary
Vegetation Management Association of Kentucky (VMAK)

Lee Van Wychen, Executive Director of Science Policy
Northeastern Weed Science Society
North Central Weed Science Society
Southern Weed Science Society
Weed Science Society of America

Sandra K McDonald, President
Western Society of Weed Science

Larry Smith, President
Wyoming Weed and Pest Council

cc: The Honorable Thomas R. Carper, Chairman, Senate Committee on Environment and
Public Works

The Honorable Shelley Moore Capito, Ranking Member, Senate Committee on
Environment and Public Works

The Honorable Raul M. Grijalva, Chairman, House Natural Resources Committee

The Honorable Bruce Westerman, Ranking Member, House Natural Resources
Committee

The Honorable Deb Haaland, Secretary of the Interior

The Honorable Jaime Pinkham, Acting Assistant Secretary of the Army for Civil Works

July 5, 2021

To: Board of Directors of the Aquatic Plant Management Society (APMS)

From: Justin Nawrocki

Subject: Report of the Treasurer

Updates:

Winston, Williams, Creech, Evans and Co. have filed an extension for our taxes and I got word on 6/28/2021 the taxes were completed and being sent for me to sign. In addition David Kruger (Apex Web Studio) has helped weed through our credit card processing procedures and we were able to drop TSYS, which was charging 8% for processing credit card transaction whereas with Braintree we pay 3.2% and there are no monthly idle fees. If the charges run through the TSYS system last year would have been run through Braintree we would have saved just over \$1,400 in fees. The decision to switch from printed to online Journal of Aquatic Plant Management will be another significant cost savings moving forward. The first payment to Rob Richardson at NC State University for the Mike Netherland Graduate Student Grant has been made.

Balances:

General checking - \$77,395.76

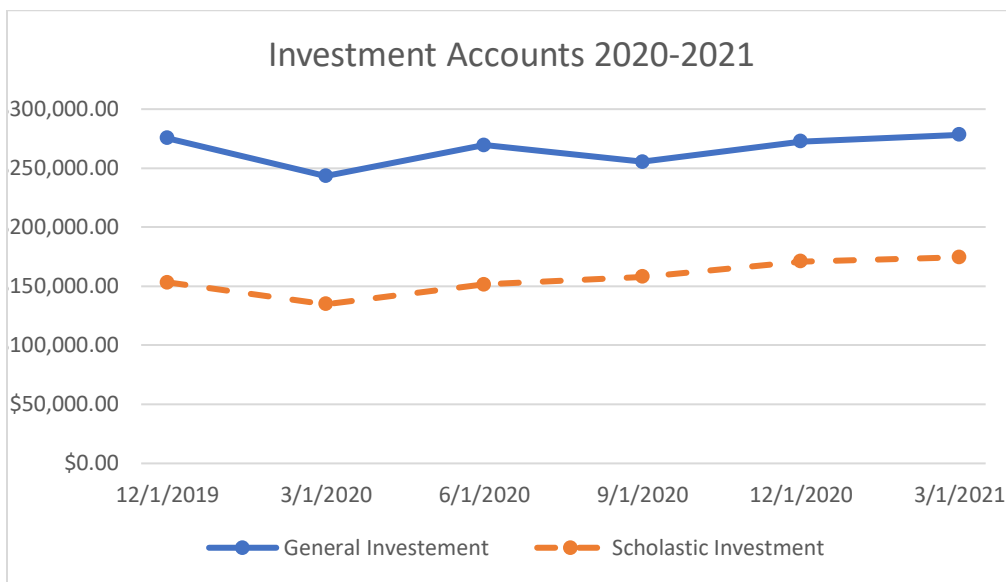
General Investment - \$281,001.44

Scholastic Endowment Fund – \$31,574.28

Scholastic Investment - \$184,302.43

Investments Over Time:

Date	General Investment	Scholastic Investment
12/31/2019	\$275,410.22	\$153,118.99
3/31/2020	\$243,363.57	\$134,724.94
6/30/2020	\$269,518.72	\$151,648.49
9/30/2020	\$255,320.58	\$157,966.47
12/31/2020	\$272,755.38	\$171,010.05
3/31/2021	\$278,196.50	\$174,520.54
2020-2021 Withdrawals	\$35,000.00	\$0.00



8:32 PM

July 2, 2021

Cash Basis

The Aquatic Plant Management Society, Inc.
2020 Income and Expense Report
 January through December 2020

	Jan - Dec 20
Ordinary Income/Expense	
Income	
Annual Meeting Income	
Delegate Pre-Registration	0.00
Total Annual Meeting Income	0.00
Journal Income	
Page Fees	6,680.00
Subscriptions	4,400.00
Total Journal Income	11,080.00
Membership Income	
Individual	6,462.00
Student	100.00
Sustaining	12,095.00
Total Membership Income	18,657.00
Miscellaneous Income	2.00
Scholastic Endowment Income	
Graduate Assistantship	11,100.00
Netherland Memorial	2,200.00
Total Scholastic Endowment Income	13,300.00
Secretary Award	86.46
Total Income	43,125.46
Expense	
American Express Annual Fee	140.00
Corporation Annual Report Fee	61.25
Credit Card Merchant Processing	
Card Fees	1,186.93
Credit Card Merchant Processing - Other	376.82
Total Credit Card Merchant Processing	1,563.75
Dues	
CAST	1,500.00
RISE	575.00
WSSA	6,565.00
Total Dues	8,640.00
Education/Outreach	8,500.00
Efax Subscription	60.85
Fiduciary Fees	896.81
Insurance	
Board of Dir. & Gen. Liability	509.00
Board of Directors Liability	828.00
General Liability	514.32
Total Insurance	1,851.32
Interest Expense	
Loan Interest	50,440.70
Total Interest Expense	50,440.70
Journal Expense	
Editor Stipend	6,000.00
Manuscripts	16,987.77
Printing & Postage	22.45
Total Journal Expense	23,010.22
Meeting Planner	
Meeting 3 years out	750.00
Total Meeting Planner	750.00

8:31 PM
 July 2, 2021
 Cash Basis

The Aquatic Plant Management Society, Inc.
2021 Income and Expense Report
 January 1 through July 1, 2021

	Jan 1 - Jul 1, 21
Ordinary Income/Expense	
Income	
Annual Meeting Income	
Contributions	400.00
Delegate 1-Day Registration	200.00
Delegate Pre-Registration	3,950.00
Delegate Registration	17,170.00
Exhibit Fee	6,400.00
Guest Pre-Registration	264.00
Guest Registration	1,040.00
Sponsorship	32,900.00
Student Registration	75.00
Total Annual Meeting Income	62,399.00
Journal Income	
Page Fees	2,605.00
Royalties	2,800.00
Subscriptions	319.78
Total Journal Income	5,724.78
Membership Income	
Individual	6,650.00
Student	100.00
Sustaining	9,500.00
Total Membership Income	16,250.00
Refund	-1,225.00
Total Income	83,148.78
Expense	
American Express Annual Fee	35.00
Corporation Annual Report Fee	61.25
Credit Card Merchant Processing	
Card Fees	558.44
Credit Card Merchant Processing - Other	2,095.84
Total Credit Card Merchant Processing	2,654.28
Dues	
CAST	1,500.00
Total Dues	1,500.00
Efax Subscription	16.95
Fiduciary Fees	381.00
Interest Expense	
Finance Charge	0.04
Interest Expense - Other	0.22
Total Interest Expense	0.26
Journal Expense	
Editor Stipend	3,000.00
Manuscripts	259.56
Printing & Postage	3,690.76
Total Journal Expense	6,950.32
List Server Services	103.98
Postal Service	
Postage	1.20
Total Postal Service	1.20
Scholastic Endowment Expense	
Graduate Assistantship	20,000.00
Total Scholastic Endowment Expense	20,000.00
Secretary Stipend	6,000.00
Supplies	29.24

Aquatic Plant Management Society
Midyear Board of Directors Meeting
July 12, 2021 - Virtual

Secretary Report

Submitted by: Amy L. Giannotti

Minutes: Approved Minutes from previous Board Meetings are posted on the APMS web site under Members Only / Documents.

Membership & Membership: Renewal notices and invoices were sent to the Sustaining Members in early 2021. Individual membership renewals were synchronized with Annual Meeting Registration for the first time. This created some confusion as persons were registering for Annual Meeting, renewing membership, and some were also paying for a sponsorship. Hopefully the new website will help to better clarify/itemize these options in the new design.

At the time the Annual Meeting Program went to print (June 23, 2021), there were 21 Sustaining Members.

APMS Newsletter: The Spring APMS Newsletter (issue 126) was published in May and featured content related to the Annual Meeting, as well as updates from Regional Chapters, Washington DC, Nominees for BOD, and membership. It is uploaded on the APMS website at: <http://www.apms.org/wp/wp-content/uploads/May-2021-Issue-126.pdf>



2020-2021 Expenditures: As outlined in the APMS Operating Manual, I have included a breakdown of AMEX credit card expenditures so far for APMS year 2020-2021 for the Office of the Secretary.

	Date	Expense	Amount
Hootsuite	January 2021	Social Media Management	\$174/year
MailChimp	January 2021	MailChimp service to send JAPM until website is ready	\$51.99
MailChimp*	February 2021	MailChimp service to send JAPM until website is ready	\$51.99
USPS	May 2021	USPS – sending JAPM issue	\$8.50
FedEx/Kinkos	June 2021	Annual Meeting Program Print & Ship	\$3,217.02

*MailChimp was cancelled after the website plans were taken into consideration.

Below the budget estimating expenditures for the Office of the Secretary for 2021-2022.

Proposed Budget for 2021-2022 - Office of the Secretary

<u>Item</u>	<u>Estimated Cost</u>	
Social Media Scheduling Software	\$174	
Secretary Travel Expenses: _____ _____ hotel, gasoline, airfare to New Orleans	\$1,800	attending virtually only
Total	\$1,974	

JAPM Moving Online and Open Access: The libraries and subscribers were contacted and notified via email of the JAPM moving online. They were each provided with a login access. There has been some confusion about this but seems to be from turnover in staff at the libraries/subscribers.

APMS entered into agreements with Cengage/Gale and Proquest to receive a royalty for each time an APMS journal article is accessed via their system.

APMS Annual Meeting Program: 100 copies were printed on June 23 and shipped to the Annual Meeting Hotel in New Orleans for the 2021 APMS Meeting for arrival on July 9. Cost for this is \$3,217.02. The program has a clear plastic cover, is spiral bound, and printed in color and double-sided. There was not enough time to use the previous vendor (Florida PRIDE system) this year, so FedEx/Kinkos was the service provider.



Aquatic Plant News

The Newsletter of the Aquatic Plant Management Society, Inc.

May, 2021 – Issue 126



Photo by Lauren Natalie Photography

CONTENTS:

- **APMS President's Update**
- **APMS 61th Annual Meeting**
- **2021 APMS Annual Business Meeting and Voter Eligibility**
- **Officer and Director Nominee Bios**
- **News and Updates from Regional Chapters**
- **2021-2022 Calendar of Events**
- **In Memoriam: Dr. David Hall**
- **Partnership In Action**
- **Washington Update**
- **General Membership Info & Sustaining Members**

APMS President's Update

Fellow APMS Members,

As I type this message finals week is upon me and the academic year is coming to end, and like many of you I am looking forward to the research season. Research results in data (hopefully), data results in presentations, and presentations should be given at the upcoming 61st Annual APMS meeting in New Orleans, Louisiana. I realize that there is still uncertainty and hesitation with some in regards to travel and meetings, but it will be good to have an in-person meeting this summer and I look forward to catching up with colleagues and friends (believe it or not the 2018 meeting was the last meeting I attended). Please give thoughtful consideration in submitting an abstract for the in-person or the virtual meeting platform. Abstract submissions will be accepted until May 15, check the website for all meeting related information <http://www.apms.org/annual-meeting/2021-annual-meeting/>.

The Aquatic Plant Management Society has been a co-signatory on a number of letters to congress, some which are outlined below.

- Letter to House Rule Committee Chairs opposing Representative Brian Mast's Amendment 43, which suggested prohibiting USACE from using approved aquatic herbicides to protect ecosystems, public safety, and infrastructure - 7/28/2020
- Letter of support for Department of Interior's Invasive Species Strategic Plan, collaboration with other Weed Science Societies - 10/9/2020
- Letter urging APMS members to oppose legislation that would amend FIFRA (CropLife America and other Weed Science Society Chapters supporting as well) - 10/12/2020
- Letter from NALMS encouraging joint collaboration between NALMS and APMS - 11/6/2020
- Urging completion of FY2021 appropriations bills without delay (to Senate and House of Representatives leadership, jointly with LOTS of other scientific organizations) - 12/8/2020

Lee Van Wychen (WSSA Science Policy Director) organized, and led, several virtual meetings with congressional staffers this past November. I along with Past Presidents Heilman, Richardson, and Layne joined the meetings to discuss upcoming legislation that would impact APM activities. Primary topics included support for USACOE APCRP funding at the Senate level, supporting the Senate's version of the 2020 Water Resources Development Act (WRDA), and opposing H.R. 7940 and S. 4406, the Protect America's Children from Toxic Pesticides Act.

The list of staffers included:

- Turner Bridgforth (Rep. Jim Hagedorn-R-MN)
- Dr. Pete Wyckoff (Sen. Tina Smith-D-MN)
- Brian Werner (Sen. Amy Klobuchar-D-MN)
- Payne Griffin (Sen. Mike Braun-R-IN)
- Nancy Martinez (Sen. Todd Young-R-IN)
- Cory Harris (Rep. Jim Baird-R-IN)
- Leigh Whittaker (Rep. David Price-D-NC)
- Josh Bowlen (Sen. Richard Burr-R-NC)
- Corey Weber (Sen. Thom Tillis-R-NC)

We hope to continue these staffer visits in the future in several other states. If Lee reaches out to you please consider volunteering.

In an effort to increase awareness of APMS and our activities Mark Heilman has been working very hard behind the scenes to strengthen partnerships with NALMS, USACOE, and AWWA. He has been instrumental in bringing key people together in order to plan, organize, and deliver seminars on topics that have broad appeal to many water management professionals. Be sure to read his update in this issue of the newsletter. Pursuant to



increased awareness of APM and the Society, the Society joined the North American Invasive Species Management Association at the Leader level. This new partnership will get APMS in front of more researchers, local government, and management personnel nationwide. APMS is also sponsoring a seminar during the upcoming National Invasive Weed Awareness Week (<https://naisma.org/2021/04/27/nisaw-continues-with-part-ii-in-may/>) where APMS and our members will be highlighted.

Finally, I would like to thank Erika Haug, John Madsen, and anyone else that gave an APMS update presentation on my behalf; your contributions are greatly appreciated. I would also like to give a huge thanks to Amy Giannotti for keeping things organized and functioning, and also for putting up with me this past year.

Sincerely,

Ryan M. Wersal, Ph.D.
President – APMS

2021 APMS Annual Meeting

The arrangements are well underway for the 61st Annual Meeting of the Aquatic Plant Management Society to be held at the Riverside Hilton in New Orleans, Louisiana, from July 12-14, 2021 with a virtual component to be held July 27-29, 2021. This year's meeting is in the region of the MidSouth Aquatic Plant Management Society, so regional presenters are strongly encouraged to submit an abstract. Please check the APMS website regularly for information and updates regarding the 61st Annual Meeting.



Meeting Formats:	<ul style="list-style-type: none"> Participants and attendees for this year's conference can attend in-person or virtually. APMS will hold an in-person conference at the Riverside Hilton in New Orleans, Louisiana, from July 12-14, 2021. In addition, APMS will hold a virtual conference July 27-29, 2021. All in-person talks will be recorded and either played during the subsequent virtual conference or made available on demand. All presentations for the virtual conference will be pre-recorded, and additional instructions for those will be forthcoming. All talks at the in-person conference will be live; pre-recorded presentations will not be available at the in-person conference.
Meeting Registration:	<ul style="list-style-type: none"> This year's meeting begins on a Monday, and presentations will begin on Tuesday morning. Early registration (\$395 per person) is available until June 14. Thereafter, registration will be \$470 per delegate. The registration portal is available on the website at https://www.apms.org/annual-meeting/2021-annual-meeting/.
Hotel Reservations:	<ul style="list-style-type: none"> Rooms at the Riverside Hilton can be reserved online by visiting https://book.passkey.com/go/AquaticPlantManagement2021, or by calling 504-561-0500 / 1-800-hiltons. Please reference the Aquatic Plant Management Society Annual Conference to receive the group rate. Room rates start at \$169 per night until June 11 and/or while rooms last. Afterwards, the rate goes up to the standard rate of \$214 per night (subject to change).
Call for Abstracts:	<ul style="list-style-type: none"> The Call for Abstracts was open through May 15. Acceptance of contributed papers will occur after the deadline and will be confirmed by a separate e-mail. Additional presentation format details will be provided then.
Poster Presentations:	<ul style="list-style-type: none"> The in-person conference will not have our traditional poster reception. However, we will offer a poster presentation format virtually. Details about virtual poster formatting will be forthcoming and will be posted on the APMS website. Acceptance of posters will occur after the abstract deadline and will be confirmed by a separate e-mail.
Student Attendance & Participation:	<ul style="list-style-type: none"> The society will provide complimentary registration to presenting students (in person or virtual). We plan to hold a graduate student session for the virtual conference, and any graduate student presentations given in-person will be recorded and included in the virtual session. Students that choose to attend in-person will be responsible for covering travel and hotel accommodations. Students may contact the Program Chair (Dr. Ryan Thum; ryan.thum@montana.edu) or the Student Affairs Committee Chair (Samantha Sardes; sam.sardes@solitudelake.com) with questions.
Sponsorship & Exhibitor Information:	<ul style="list-style-type: none"> The Annual Meeting provides an excellent forum to exhibit products and services and interact with key people involved in aquatic plant management throughout the country. The Exhibit Hall is also the site of daily continental breakfasts and refreshment breaks to increase interactions and discussion among exhibitors and meeting attendees. There are a variety of sponsorship options for those individuals, agencies, or companies interested in sponsoring the meeting, and their support is recognized across several platforms during the meeting and throughout the year. For additional details about how to become a sponsor, please visit http://www.apms.org/annual-meeting/2021-annual-meeting/2021-sponsor-and-exhibitor-information/. For general questions, please contact Dean Jones (863-209-4015, dean.jones@upl-ltd.com). For assistance processing a payment or if you need an invoice, please contact Justin Nawrocki (919-429-2185, APMS14@Hotmail.com).

2021 APMS Annual Business Meeting and Voter Eligibility

ARTICLE IX. MEETINGS of the APMS Bylaws requires that there shall be an annual meeting of the Society during which time the membership will elect officers and directors for the ensuing year as well as conduct other business as deemed necessary. APMS has traditionally fulfilled these requirements during the July Annual Meeting. Other business has historically included membership votes on proposed changes to the Bylaws and approval of officer and committee reports presented to the general membership in attendance during the Annual Business Meeting.

The 2021 Annual Meeting scheduled for July is incorporating both an in-person and a virtual meeting platform; therefore, to satisfy Bylaws requisites, the Board intends to provide officer and committee reports, as well as a slate of officers and directors and Bylaws amendments proposed by the Board for approval by members in good standing with the Society. Members in good standing are described in ARTICLE XII. MEMBERSHIP of the APMS Bylaws as all Individual, Student, Honorary and one representative from a Sustaining Membership with current, paid-up dues.

Historically, members have been able to check and renew their membership status on the APMS website under the Members Only tab. This year marks the first year that membership renewals will be done in conjunction with meeting registration. If you have already renewed online, no problem. If you plan to renew when registering for the Annual Meeting, your information will be incorporated and updated as well. Please check to see that your contact information is also up to date on the website as well.

The APMS Board is developing an online platform to cast votes for the slate of officers and directors and any proposed amendments prior to the Annual Business Meeting to be held virtually July 27-29, 2021 (exact date and time TBD). Officer and committee reports will be posted for review on the APMS website in early July. Members will be notified by email and on the website as to the details for when and how to cast their votes.

2021-2022 APMS Officer and Director Nominees

The following candidates have been selected by the Nominating Committee for consideration to serve on the APMS Board of Directors. The Nominating Committee suggests a slate of candidates for positions that are about to come open on the Board. Each candidate must meet specific criteria set forth in the APMS Bylaws. The Board of Directors has approved the slate and active members will vote to approve or amend the slate of proposed officers and directors. Members will be notified in the coming weeks as to how to cast votes prior to the Annual Business Meeting – which will have both an in-person component and a virtual component – in July 2021.

Office	Name	Affiliation	Location
Vice-President	Dr. Jason Ferrell	UF/IFAS Center for Aquatic & Invasive Plants	Gainesville, FL
Director	Dr. Toni Pennington	Environmental Science Associates	Bend, OR
Director	Mr. Matthew Johnson	Aquatic Control	Seymour, IN
Editor	Dr. Ramon Leon	NC State University	Raleigh, NC

APMS Needs You!

There are currently 16 committees active in APMS, and each plays an integral role in moving the Society forward, making sure the annual meeting is a success, and working to grow our organization. Each committee is led by a Chair who organizes the meetings throughout the year and provides direction for the committee members. New ideas, suggestions for change, and feedback for the Society are important functions of these committees. Members of APMS are encouraged to volunteer to serve on a committee and we would love to have you!

Officer and Director Nominee Bios



Dr. Jason Ferrell

Dr. Jason Ferrell earned a B.S. and M.S. in Plant and Soil Science from the University of Kentucky in 1998 and 2000, and a Ph.D. in Weed Science from the University of Georgia in 2003. He joined the University of Florida as an Assistant Professor in 2004 with responsibilities in weed management and herbicide stewardship. In the time since, he has attained the rank of Associate Professor (2009) and Professor (2014). Dr. Ferrell became the Director of the UF's Center for Aquatic and Invasive Plants in 2017 where he helps coordinate and promote invasive plant research and extension activities throughout the UF Institute of Food and Agricultural Sciences (IFAS). In 2019 he took leadership of the IFAS Pesticide Information Office which directs pesticide licensing/testing and extension outreach activities for pesticide safety and compliance. Dr. Ferrell has chaired or co-chaired 22 graduate students and published over 110 refereed journal articles in his career. He currently serves as Editor of the Journal of Aquatic Plant Management and sits on the Board of Directors of the Aquatic Plant Management Society.



Dr. Toni Pennington

Dr. Toni Pennington is an aquatic biologist with more than 20 years of experience in the research and management of nuisance aquatic plants across the western U.S.; developing and implementing sampling and analysis plans for freshwater systems; developing AIS management plans across multiple local, state, and federal agencies; conducting wetland delineations according to regional USACE guidance; supporting water quality and aquatic plant studies for FERC licensing projects; and conducting vegetation surveys. Her research on aquatic plants has included physiological studies to improve management of nonnative species, ecological studies on nutrient requirements, and herbicide efficacy studies to determine lowest dose requirements for management. She has led numerous multi-year projects in reservoirs and rivers developing integrated aquatic vegetation management plans, providing treatment recommendations, and supporting clients in developing bid specifications for a variety of controls including diver-assisted hand-pulling, installation of benthic barriers, and the application of EPA- and state-approved aquatic herbicides. Toni volunteers in a number of organizations related to the prevention and control and AIS, including the Western Aquatic Plant Management Society where she has served in all board positions, Oregon Lakes Association (current Director), Washington Lake Protection Association, North American Lake Management Society, Columbia Basin Cooperative Weed Management Area, and Western Regional Panel on Aquatic Nuisance Species. Toni received her PhD from Portland State University, MS from Texas State University, and BS from Fort Lewis College, and she has also co-authored peer reviewed articles and book chapters on AIS.



Mr. Matthew Johnson

Mr. Matthew Johnson serves as President of Aquatic Control, where he has been employed since 1993. His career has spanned all facets of company operations, including work in shipping, aquatic vegetation management, fish population surveys, fountain/aeration systems installation, fisheries management and stocking, and revegetation projects. He has extensive experience in managing Eurasian watermilfoil, as well as marketing and business operations related to aquatic plant management. He holds a B.S. degree in business administration with an emphasis in marketing from the University of Southern Indiana. Mr. Johnson's professional affiliations include the Indiana Lake Management Society, Illinois Lake Management Association, Ohio Lake Management Society, The Aquatic Plant Management Society, The Midwest Aquatic Plant Management Society, The Mid-South Aquatic Plant Management Society, Aquatic Ecosystem Restoration Foundation, Responsible Industry for a Sound Environment, Indiana Professional Lawn and Landscapers Association, Indiana Golf Course Superintendents Association, and the Midwest Regional Turf Foundation. He is a PADI Certified SCUBA Diver. In his spare time, Mr. Johnson enjoys hiking, golfing, or other adventures with his wife and two sons.



Dr. Ramon Leon

Dr. Ramon Leon is an associate professor of Weed Biology and Ecology in the Department of Crop and Soil Sciences, North Carolina State University, USA. Previously, he was an associate professor of Weed Science at the University of Florida, USA, professor of Weed Science at EARTH University in Costa Rica, and assistant professor at California Polytechnic State University, San Luis Obispo, USA. Dr. Leon obtained a Ph.D. (2005) and M.S. in Crop Production and Physiology (2003) with emphases on Weed Science and Seed Science, and a Ph.D. in Genetics (2005) from Iowa State University, and a B.S. in Agronomy (2000) from the University of Costa Rica. His research has focused on understanding changes in weed dynamics in response to management and environmental factors. He has published over 112 peer-reviewed scientific articles, 2 book chapters, and 202 abstracts. He is an associate editor for Weed Science, Weed Research, Peanut Science, and previously for the journals Weed Technology and Agronomy.

News and Updates from Regional Chapters

From FAPMS

The Florida APMS Board of Directors met April 22, 2021, for their second quarter Board meeting. The Board made two significant decisions relative to APMS that were announced: First, plans are being made to proceed with hosting an in-person meeting of the 45th Annual Florida Aquatic Plant Management Society Training Conference from October 11-14, 2021, at the Hilton St. Petersburg Bayfront in St. Petersburg, FL.

Dr. Brett Bultemeier is serving as Program Chair, and abstracts should be submitted to him at bwbult@ufl.edu. Scott Jackson is overseeing the Vendor Committee, and he is welcoming sponsorships and exhibitors. Interested sponsors, vendors, and exhibitors can contact him at scott.jackson@syngenta.com. It's not too early to think about nominations for the Aquatic Plant Manager of the Year or the Michael D. Netherland Exemplary Colleague Award. Information about these awards is available on the FAPMS website (fapms.org), and nominations can be submitted to FAPMS President Jeremy Slade at Jeremy.slade@upl-ltd.com.

Second, it was decided that Aquatics magazine, the official publication of the Florida Aquatic Plant Management Society, will be made available via hardcopy to Florida members and via email to regional chapter leadership for distribution to regional chapter members. Persons interested in receiving a hardcopy via mail will need to be an active member of the Florida Aquatic Plant Management Society. In addition, issues will be uploaded to and archived on the website two issues after initial publication.

From MAPMS

The Midwest Aquatic Plant Management Society in keeping with the effort to limit the spread of Covid-19 made the difficult decision to cancel our annual conference. We were able to hold our annual business meeting using a virtual setting in February. Along with all normal society business, we awarded our Robert L. Johnson Memorial Student Research Grant to Amber White of the University of Wisconsin and Michael

Verhoeven of the University of Minnesota. Amber will be researching the Photodegradation and long-term persistence of fluridone in whole-lake treatments, a compliment endeavor to her research looking at degradation of other chemistries (i.e. 2, 4-D and floryprauxifen-benzyl). Michael's project will investigate the Re-establishment of native species after invasive species control, a project based in better understanding one of the core invasive plant management principals. We congratulate both students, wish them well in their research activities, and look forward to seeing a research update presented at the 2022 annual conference.

As part of our continuing efforts to promote the science behind the aquatics industry the MAPMS will be supporting the Pennsylvania Department of Conservation and Natural Resources, along with support from nine other groups, to host its first Plant Camp in August 2021. The three-day program will give 15 teachers the opportunity to learn more about aquatic plant management. The teachers will receive classroom instruction, field training, and materials to take back to their own classrooms. The program will be based at Pymatuning State Park in Jamestown, PA. The program staff and participants will be lodged at the University of Pittsburgh's Pymatuning Laboratory of Ecology. The program will also visit Presque Isle State Park, Conneaut Lake, Erie National Wildlife Refuge, and MK Goddard State Park. The participants will see a variety of waterbodies and aquatic plant communities. The camp will cover aquatic plant identification, management methods, and survey techniques.

Finally, in gratitude of his many years of service to MAPMS and many other organizations involved in the aquatics industry. The Midwest Aquatic Plant Management Society has bestowed upon Mr. Joseph Bondra an honorary membership. Joe has dedicated his time to helping many businesses succeed in this industry, directing government policy and educating others on the importance of aquatics. We look forward to seeing all our members at our next conference. Feb 27th to March 3rd, 2022 in Lake Geneva, Wisconsin. Please visit MAPMS.org for more details.

More Exciting News!

Dr. Susan Wilde, past member of the APMS Board of Directors, and colleagues continue to expand their research on and our knowledge of the causes of vacuolar myelinopathy in herbivores and higher order consumers associated with the toxin-producing species of novel cyanobacteria (*Aetokthonos hydrillicola*) on Hydrilla. Their recent publication in *Science* is available at: Study: Breinlinger S. et al. A cyanobacterial neurotoxin causes vacuolar myelinopathy. *Science* (2021). DOI: 10.1126/science.aax9050 <https://science.sciencemag.org/lookup/doi/10.1126/science.aax9050>

2021-2022 Calendar of Events for Regional Chapter Meetings & Related Events



SC APMS
October 6-8, 2021

North Myrtle Beach, SC
<http://scapms.org/meetings.html>



Florida APMS
October 11-14, 2021

St. Petersburg, FL
<https://fapms.org/conference/2021-conference/>



Texas APMS
November 15-17, 2021

Bryan, TX
<https://www.tapms.org/2021-annual-meeting/>



Midwest APMS
February 27 - March 3, 2022

Lake Geneva, WI
<https://www.mapms.org/conferences/2022-conference/>



Western APMS
March 7-11, 2022

Tucson, AZ
<https://wapms.org/events>



In Memoriam

It is with great sadness that we remember our friend and colleague, Dr. David Hall. David had a gift for communicating technical information in a way that we all could understand and with a presence that made us want to learn more. David's accomplishments in aquatic plant management are many. He was a renowned botanist whose contributions in the fields of plant identification, forensics, threatened and endangered species, and wetland delineation are unmatched. During his career, he published 15 books and over 150 articles that elevated our knowledge about everything from wildflowers to turf grasses to wetland plants and more.

Beginning in the early 1980s while working as the Director of the Plant Identification and Information Services at the University of Florida, David formed a partnership with the Florida Department of Natural Resources using his skills training staff in plant identification

and mentoring many biologists along the way. David didn't just share his knowledge with scientists though; he was a gifted teacher to teachers, too. For 14 years, David served as an instructor at Plant Camp, sponsored by the University of Florida's Center for Aquatic and Invasive Plants and the Florida Fish and Wildlife Conservation Commission, inspiring educators to incorporate hands-on lessons in aquatic plant and invasive species management into their elementary, middle, and high school curricula.

David received many accolades over the years, and it is obvious that his leadership was equally matched by his generosity, service, kindness, professionalism and intellect.

We encourage you to visit this memorial website to leave remembrances for his family and friends: <https://www.david-w-hall.net>

Partnership in Action

Update from Mark Heilman, APMS Immediate Past President

APMS has a history of collaborating with a variety of organizations focused on aquatic resource management. In the last 12 months, partnership examples include:

1. collaboration with the **North American Invasive Species Management Association (NAISMA)** and other parties to offer presentations on aquatic plant management topics as part of **National Invasive Species Awareness Week** (NISAW 2020 presentation by Dr. Rob Richardson: <https://youtu.be/846QLOV98ko>);
2. work with the **Weed Science Society of America (WSSA)** and the **National Coalition of Food and Agricultural Research (NC-FAR)** to offer an overview of Harmful Algae Management by Dr. Ken Wagner (https://www.ncfar.org/HSS_20200608_Presentation.pdf)
3. teaming with the **Invasive Species Leadership Team (ISLT)** of the **US Army Corps of Engineers Research and Development Center** on a fall 2020 webinar series (<https://corpslakes.ercd.dren.mil/employees/learning.cfm>) highlighting latest research and management strategies for control of invasive aquatic plants and harmful algae.
4. worked with the **North American Lake Management Society (NALMS)** to offer a special session on harmful algae management at the November 2020 NALMS virtual conference. (<https://www.nalms.org/nalms2020/>). Similar joint content is also planned for both future APMS and NALMS conferences along with other partnership efforts between the two Societies.

These collaborative efforts have allowed interaction between members and interested parties across aquatic disciplines to promote common vision and future cooperation in aquatic research, management, and outreach. The enhanced use of online platforms because of pandemic limits on conferences and other physical events has allowed contact with broader audiences with useful, cross-disciplinary information. While thankfully we begin to see a gradual resumption of in-person events, online communications will remain enhanced. APMS will continue to partner with many groups and take advantage of online platforms to fulfill its mission and enhance science and management of aquatic plants and algae. All APMS members are invited to participate and circulate information to other prospective attendees about the following upcoming events:




- **NISAW 2021 Webinar – Aquatic Plant Management Priorities** by APMS President Ryan Wersal and Jeremy Crossland and Mike Greer with Corps of Engineers as part of **NISAW 2021 Thursday May 20th 2 pm Eastern, 1 pm Central**. https://us02web.zoom.us/webinar/register/WN_fJJS5cvBSzKJyRdY0MXrxA
- **Comprehensive Strategies to Protect Drinking Water from Harmful Algal Blooms** – A five-week seminar series developed collaboratively by the **American Water Works Association (AWWA)**, **NALMS**, **Corps ERDC-ISLT**, and **APMS**. **Wednesdays @ 1 pm Eastern, June 23 – July 21**. See the preliminary announcement here in the newsletter. The technical contributors and abstracts for this interdisciplinary series will be announced shortly and will include presentations from multiple federal and state agencies as well as other public and private partners engaged at all phases of drinking water's journey from watershed to the tap. Seminar series information and content will be available through the Corps Learning Exchange website. <https://corpslakes.ercd.dren.mil/employees/learning/index.cfm>



SUMMER SERIES 2021

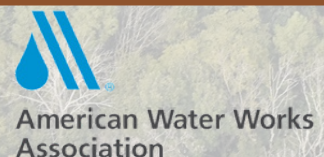
COMPREHENSIVE STRATEGIES TO PROTECT DRINKING WATER FROM HARMFUL ALGAL BLOOMS

- June 23** | HAB Impacts to Drinking Water and Current Management Outlook
- June 30** | Source Water Protection in the Watershed
- July 7** | Mitigation of Internal Nutrient Loads in Drinking Water Sources
- July 14** | Harmful Algae Management
- July 21** | From Intake to the Tap

-  Webinars begin at 12:00PM CST
-  Anticipate 1.5 hours (2 hours for June 23)
-  Log-In information will be provided weekly and posted to the link below

<https://corpslakes.erd.c.dren.mil/employees/invasive/exchange.cfm?option=CurrentSchedule>

The USACE Invasive Species Leadership Team in collaboration with the Aquatic Plant Management Society, North American Lake Management Society, and the American Water Works Association will summarize the latest research and technical information on management strategies to encourage better integration and facilitation in the protection of drinking water.



Washington Report



April 30, 2021
By, Lee Van Wychen

National Invasive Species Awareness Week (NISAW)- Part II

NISAW Part II - Outreach and Education – is May 15-22, 2021 and will focus on local invasive species prevention, removal, and educational events. If you are coordinating or aware of invasive weed removal or educational events, please add it [here](#). The North American Invasive Species Forum is also being held virtually during NISAW Part II. The Forum is an international event encompassing the interests of professionals involved in invasive species management, research, and regulation across North America. To learn more and register for the North American Invasive Species Forum, click [here](#).

The five webinars offered during NISAW II will focus on invasive species prevention and control:

May 17: [The Climate Crisis and Invasive Species](#)

May 18: [The Model Legislative Framework for State Aquatic Nuisance Species Programs](#)

May 19: [The Regulatory Process for Classical Weed Biological Control](#)

May 20: [Aquatic Plant Management Priorities](#)

May 21: [A Comparison of State Noxious Weed Lists and The Western Weed Action Plan](#)

The May 20th webinar on Aquatic Plant Management Priorities is sponsored by APMS and will feature the following three presentations:

- **Presentation 1** - An Overview of the Aquatic Plant Management Society (APMS) presented by **Dr. Ryan Wersal**, President of APMS and Assistant Professor of Aquatic Plant Ecology in the Department of Biological Sciences at Minnesota State University Mankato
- **Presentation 2** - Hydrilla in the Connecticut River presented by **Dr. Greg Bugbee** with the Connecticut Agricultural Experiment Station
- **Presentation 3** - Challenges and Successes with Long-Term Control of Invasive Weeds presented by **Jeremy Crossland** and **Mike Greer** with the U.S. Army Corps of Engineers

The May 21st webinar will feature a presentation by **Dr. Jacob Barney** from Virginia Tech, Chair of WSSA's Noxious and Invasive Weed and Biocontrol Committee. His presentation will focus on variations in how states regulate noxious weeds and how state noxious weed lists are reactive, not coordinated, and incongruous with biology.

National Invasive Species Awareness Week (NISAW): Part I

NISAW Part I was February 22-26, 2021 and included a policy focused webinar series during the week in which over 1,900 people registered. The U.S. federal agencies responsible for invasive species management in aquatic and terrestrial ecosystems, in general, have sufficient legislative authority from Congress to manage invasive species. However, federal invasive species programs remain extremely underfunded. In FY 2020, the Department of the Interior estimated it spent \$143 million to manage invasive species for 400+ million acres of public lands. That's roughly 35 cents per acre for all invasive species research, prevention, EDRR, management and restoration. As invasive species stakeholders, we need to seek full appropriations as authorized for these programs. That was the central theme of the NISAW webinar I presented titled "Show Me the Money". The recorded presentations are available at: www.nisaw.org/nisaw-2021/.

Pinkham Serving as Acting Assistant Secretary of the Army for Civil Works



Mr. Jaime A. Pinkham was appointed Principal Deputy Assistant Secretary of the Army for Civil Works on April 19, 2021, and is also serving as the Acting Assistant Secretary of the Army for Civil Works.

Prior to his appointment, Mr. Pinkham served as the executive director of the Columbia River Inter-Tribal Fish Commission in Portland, OR since 2017. Prior to that position, he was the vice president of the Bush Foundation in St. Paul, MN. He led the Foundation's Native nations program and worked with tribes across ND, SD and MN as they redesigned their governing systems. He spent the previous two decades in the Pacific Northwest advocating for tribal sovereignty, self-determination and treaty rights.

Washington Report



[Continued]

2020 WRDA Authorizes Over \$100 Million for Invasive Species Management

The 2020 Water Resources Development Act (WRDA) was included as part of the massive 5000+ page Consolidated Appropriations Act of 2021. WRDA bills are authorization bills enacted by Congress to deal with various aspects of water resources such as environmental, navigational, and flood protection issues that are mostly administered by the U.S. Army Corps of Engineers (ACOE). This is the 14th WRDA bill enacted since 1974 and the fourth since 2014.

New invasive species provisions included in 2020 WRDA:

- Authorizes \$25 million for a **Harmful Algal Bloom (HAB)** demonstration program to “*determine the causes of, and implement measures to effectively detect, prevent, treat, and eliminate, harmful algal blooms associated with water resources development projects.*” The HAB demonstration program will be carried out by ACOE with focus areas in the Great Lakes, the tidal and inland waters of New Jersey, the coastal and tidal waters of Louisiana, the waterways of the counties that comprise the Sacramento-San Joaquin Delta, California, the Allegheny Reservoir Watershed in New York, and Lake Okeechobee, Florida.
- Requires the Army Corps to add “**prevention**” to its aquatic invasives species research ([33 U.S. Code § 2263a](#)). Specifically: “*As part of the ongoing activities of the Engineer Research and Development Center to address the spread and impacts of aquatic invasive species, the Secretary (of the Army) shall undertake research on the PREVENTION, management and eradication of aquatic invasive species, including Asian carp, ELODEA, QUAQQA MUSSELS, and zebra mussels.*”
- Directs the Army Corps to conduct a **terrestrial noxious weed control** pilot program in consultation with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) “*to identify and develop new and improved strategies for terrestrial noxious weed control on federal land under the jurisdiction of the Secretary (of the Army).*”
- Authorizes \$50 million per year for FY 2021 - 2024 for ACOE to “enter into partnerships with applicable States and other Federal agencies to carry out actions to prevent the introduction of, control, or eradicate invasive species that adversely affect water quantity or water quality” in the Platte River Basin, the Upper Colorado River Basin, the Upper Snake River Basin, and the Upper Missouri River Basin. ACOE shall give priority to projects that are intended to control or eradicate **Russian olive (*Elaeagnus angustifolia*) or saltcedar (of the genus *Tamarix*)**.
- Authorizes \$10 million for the Secretary of the Interior, acting through the Director of the U.S. FWS, to establish a pilot program “**to remove invasive plant species in riparian areas that contribute to drought conditions**” in the Lower Colorado River Basin; the Rio Grande River Basin; the Texas Gulf Coast Basin; and the Arkansas-White-Red Basin; and where appropriate, to replace the invasive plant species with ecologically suitable native species and to maintain and monitor those riparian areas.
- Authorizes \$25 million for the Secretary of the Interior, acting through the Director of the U.S. FWS, to establish a pilot program “*to develop and carry out effective measures necessary to prevent, control, or eradicate **aquatic invasive species in alpine lakes that are not located within a unit of the National Park System.***”

Regan Confirmed as EPA Administrator



Michael S. Regan (pronounced REE-gan) was confirmed by the Senate on March 10 by 66-34 vote to serve as the 15th Administrator of the U.S. EPA.

Regan is a native of Goldsboro, NC and received a B.S. in earth and environmental science at North Carolina A&T State University. He received a Master of Public Administration from George Washington University and worked at EPA from 1998 to 2008 working on air pollution issues. He then joined the Environmental Defense Fund (EDF) for eight years before being selected by NC Governor Roy Cooper in 2017 to serve as the secretary of the NC Department of Environmental Quality.

Washington Report



[Continued]

WSSA Comments on Endangered Species Act Assessments for Triazines and Glyphosate

Last fall, EPA released its draft biological evaluations (BEs) for the triazines and glyphosate for review and comment. Biological evaluations (BEs) are the beginning of EPA's Endangered Species Act (ESA) consultation review process for pesticides where they determine if an endangered or threatened species or critical habitat could be affected by the use of that pesticide.

The WSSA submitted separate comments for the [triazines](#) and [glyphosate](#). In general, EPA's biological evaluations (BEs) lack a workable and consistent approach to endangered species assessments. An assessment process which essentially equates any exposure to a pesticide as a possible concern to any species does little to advance appropriate options which could be tailored to improve species protection. The implications of unrealistic analyses will result in unjustified restrictions on the use of both triazine and glyphosate products which remain critical weed management tools across the U.S.

The WSSA would like to thank the many weed scientists who submitted comments documenting actual use rates and patterns for these herbicides.

Vilsack Confirmed as USDA Secretary Again



On Feb. 23, 2021, the Senate confirmed Tom Vilsack by a 92-7 vote to lead USDA as the 32nd U.S. Secretary of Agriculture. Vilsack was serving as the CEO of the U.S. Dairy Export Council following the eight years he served in the Obama Administration as the 30th Secretary of Agriculture from 2009 to 2017. Prior to that, he served as governor of Iowa from 1999 to 2007. Vilsack is the first USDA Secretary to serve in two different administrations nonconsecutively. Vilsack earned his bachelor's degree at Hamilton College in Clinton, NY and his J.D. from Albany Law School. Vilsack and his wife Christie moved to Mount Pleasant, IA in 1975, where he joined his father-in-law's law practice. He became mayor of Mount Pleasant in 1987 and then was elected to the Iowa Senate in 1992 before becoming governor of Iowa in 1999.

Legislation to Boost USDA Research Funding Reintroduced

Senators Dick Durbin (D-IL) and Jerry Moran (R-KS) reintroduced the America Grows Act, S. 1371, that would require a five percent annual funding increase each year for the next 10 years for research activities at USDA's ARS, NIFA, NASS, and ERS. The U.S. share of total agriculture research investments among high-income countries as a group has declined from 35 percent in 1960 to less than 25 percent by 2013. By comparison, in the past 30 years, Chinese investments in agriculture research have risen eight-fold. The six National and Regional Weed Science Societies [joined over 120 other organizations](#) in a letter to Senate Agriculture and Appropriations Committee members supporting the America Grows Act of 2021.

Weed Science Societies Support Federal Investment in Ag Research Infrastructure

In 2021, Gordian assessed the state of facilities at U.S. Land Grant colleges of agriculture (1862, 1890, 1994) and reported that 69% of these buildings are at the end of their useful life. The report stated that the cost of upgrading deferred maintenance now is \$11.5 billion, and the replacement cost for the dilapidated facilities is \$38.1 billion.

The National and Regional Weed Science Societies joined many other stakeholder groups in a letter to the House and Senate Ag Committees strongly urging them to include a federal agricultural research infrastructure investment of \$11.5 billion over a period of five years. Such an investment is necessary to advance the critical work being done at Land Grant Universities across the country to support American jobs, recruit and graduate 60,000 new U.S. graduates annually with ag and natural resource management expertise, and ensure ongoing U.S. leadership in food and agricultural innovation.

Washington Report



[Continued]

Final Appropriations for FY 2021 and Weed Science Society Requests for FY 2022

The Consolidated Appropriations Act of 2021 that was signed into law (P.L. 116-260) on Dec. 27, 2020 making appropriations for the fiscal year ending September 30, 2021. The bill combined a \$900 billion Covid relief bill with the \$1.4 trillion for the 12 annual spending bills making it one of the largest spending measures ever enacted by Congress. Below are final FY 2021 appropriations for certain federal agency programs with a focus on weed research and management in agricultural and natural ecosystems as well as the weed science societies request for FY 2022 appropriations.

	FY19 Final	FY20 Final	FY21 Final	Weed Science FY22 Request
	----- Millions -----			
USDA-ARS	\$1,303	\$1,414	\$1,492	\$1,721
USDA-NIFA	\$1,471	\$1,527	\$1,570	
- AFRI Competitive Grants	\$415	\$425	\$435	\$600
- Hatch Act (Exp. stations)	\$259	\$259	\$259	
- Smith Lever (Extension)	\$315	\$315	\$315	\$335
- IR-4 Program	\$12	\$12	\$12	\$20
-Crop Protection and Pest Management	\$20	\$20	\$20	\$25
USDA-APHIS: Cogongrass eradication**			\$3	\$4
Army Corps- Aquatic Plant Control research	\$6	\$6	\$7	\$13
EPA - Great Lakes Restoration Initiative	\$300	\$320	\$330	\$375
DOI – Wildland Fire: Fuels Management	\$189	\$194	\$220	\$240
DOI – BLM: Rangeland Management	\$104	\$106	\$106	\$116
DOI- FWS: National Wildlife Refuge System: Wildlife and Habitat Management	\$234	\$239	\$240	\$250

** The final FY 2021 appropriation directs APHIS to reallocate \$3 million from its Field Crop and Rangeland Ecosystems Pests account to create a pilot program for the **control and eradication** of cogongrass focused on the following states: **Alabama, Georgia, Mississippi and South Carolina**.

Haaland Confirmed as Secretary of the Interior



Rep. Deb Haaland (pronounced HAH-lend) was confirmed by the Senate on March 15 by a 51 – 40 vote to lead the Department of the Interior. She is the first Native American to run the Department of the Interior in its 171 year history, and the first Native American Cabinet secretary in U.S. history. Haaland was born in Winslow, Arizona and is an enrolled member of the Laguna Pueblo. At 28, she enrolled at the University of New Mexico, where she earned a Bachelor of Arts in English in 1994. She earned her J.D. in Indian law from the University of New Mexico School of Law in 2006, but is not a member of the New Mexico State Bar. Haaland served as the tribal administrator for the San Felipe Pueblo from 2013 to 2015 and was elected to a two-year term as chair of the Democratic Party of New Mexico before being elected to the U.S. House of Representatives in 2018 for New Mexico's 1st District. She was subsequently re-elected for a second term in the House in 2020 before being nominated for Interior Secretary.

Incorporated in 1961 as a forum to share
water hyacinth control experiences,
today APMS and its seven Regional
Chapters promote research and outreach
to manage all species of aquatic plants
and algae.



General Info for Membership, Etc.

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

VISION

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

MISSION

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

MEMBERSHIP

Individual	\$95.00	Entitles member to vote, hold office, serve on committees, and receive publications
Student	\$20.00	Full time students receive same privileges as Individual member
Sustaining	\$500.00	Membership privileges for one designated representative; subscription to the Journal of Aquatic Plant Management, APMS newsletters, and access to the APMS Blog and social media content; quarterly issues of Aquatics magazine; recognition as a Sustaining Member in newsletters, the Annual Meeting Program, and on the APMS website

To join, visit this link: <http://www.apms.org/society/membership/>

To renew a membership, login and visit this link: <http://www.apms.org/member-login/>

Follow us and Learn More:



@APMSociety



@apmsociety



@APMS1961

.....And Join the APMS Group on LinkedIn....

Sustaining Members

APMS would like to thank the following Sustaining Members who have renewed thus far for their support in 2021-2022. Generous annual contributions from these organizations and individuals support APMS education and outreach initiatives. Sustaining Membership costs \$500 and membership privileges include: one designated representative member; subscription access to the *Journal of Aquatic Plant Management*; recognition in APMS Newsletters, the Annual Meeting Program, and on the APMS website.

Additional Sustaining Members that renew after the publication of this newsletter will be recognized in the next edition.

Editor Report – Journal of Aquatic Plant Management
Summer 2021 Board Meeting
Jason Ferrell

This will also serve as the Publications Committee report.

JAPM 59:2 (July 2021) has not yet been assembled. Production of the summer issue usually starts in mid-April for a July release. Unfortunately, in mid-April we only had 2 papers fully accepted in the system. I believe this is a result of COVID closures that delayed research, complicated collaboration, and just generally slowed the publishing process. We hope to have the July issue complete by early Fall 2021.

Special Publication

The DRAAWP (Delta-Region Areawide Aquatic Weed Project) is essentially complete, but has slowed due to John Madsen's medical recuperation. Madsen has confirmed that USDA will cover the cost of this production through increased page charges. We hope to have this in production by Fall 2021.

Online Publishing

JAPM has transitioned to a fully online format and we have heard no negative feedback from members. It seems that they are accessing the journal from the website and this is fulfilling their professional needs. The only issue has been working with libraries that have historically received physical copies. They routinely message us looking for the missing issues. To remedy this, Amy Giannotti and Brett Hartis are working diligently to re-engineer the website to allow the content to flow to the libraries digitally.

Editorship

This will be my last report as JAPM editor. The 9 years have flown by while I learned and enjoyed the process immensely. I cannot express the gratitude I have that the BOD took a risk and entrusted this publication to me. I believe this move helped change the trajectory of my career, and for that I am forever thankful.

I also want to show my incredible and unending excitement/support for our new editor, Dr. Ramon Leon. Dr. Leon is, without a doubt, the most widely talented and gifted scientist I have had the pleasure to know. JAPM is clearly in better and more competent hands.

With this, please accept my apologies for not being present. This is what happens when you agree to family vacations without checking your calendar. I look forward to seeing you at the mid-Winter meeting.

Awards Committee
John Madsen, Chair

No report at this time. Will present information at the BOD Meeting.

Bylaws and Resolutions Committee
James Leary, Chair

No report at this time.

Website Committee Report

The website committee has been meeting with Apex weekly to discuss the website redesign. The original website completion date was set for 5/1/21, however following issues with obtaining the appropriate php for hosting the new site, and registration for the annual meeting, the decision was made to stay in the old website format until after the annual meeting. Apex is continuing development of the “behind the scenes” portions of the redesign while continuing to operate the old website until the meeting is complete.

Apex has had issues obtaining the appropriate php to host the new website, as the outdated php used in the past served several “custom” functions developed by APEX for the APMS members only portion of the website, which will no longer be functional. The public portion of the website will be completely functional once transferred over to a new platform and php (it currently is run by Wordpress). The website committee has been made aware that such custom functionality (meeting registration, membership renewal, etc) may need to be sourced to an outside vendor once the website redesign is complete. Apex intends to move away from their own custom system for editing towards a commercially available system with better security, etc. The website committee will continue to meet each Thursday with Apex to finalize designs, functionality, etc. An estimated completion date will be forthcoming following identification of a commercial vendor for editing the members only portion of the website. Once identified, apex estimates 3-4 weeks until completion.

The committee has also received a number of requests regarding journal access from subscribers during the redesign phase. We have developed an interim process for login by journal subscribers until the website redesign is complete. The new website will have a process for subscribers to log in and access the journal. For more information regarding the scope of the work being completed as a part of the redesign, please see the attached proposal.

Education and Outreach Committee

The committee has recently added a new member - Sonja Wixom, Lead Educator at PondMedics. Sonja has a great deal of experience in development and implementation of education and outreach to students of all ages. We are excited to have Sonja join the group to help revitalize our efforts. Nothing additional at this time.

Social Media Outreach Updates - John Madsen & Amy Giannotti

LinkedIn: The APMS Group on LinkedIn has 1444 members, which is an increase from last year. The analytics have changed for “Groups”, so detailed metrics are not available.

Number of Followers

Account	10/1/19	10/14/19	1/14/20	6/30/20	2/28/21	6/30/21
Facebook	0	137	176	295	471	488/584
Instagram	0	63	121	218	346	392
Twitter	--	--	331	429	571	616

All accounts are growing numbers of followers and expanding the reach of APMS. The Social Media Management Contract with AquaSTEM Consulting (\$2,000/year for Twitter with livefeed to APMS website, Instagram, and Facebook; 2+ posts/week/platform) is up for renewal for 2021-2022.

Exhibits Committee
Dean Jones, Chair

No report at this time.

FINANCE COMMITTEE REPORT JULY 12, 2021

ANDY FUHRMAN COMMITTEE CHAIR

The following is summary of accounts through the first 6 months of 2021

Total in investment accounts as of July 1st, 2021 is \$463,850.97

Aquatic Plant Account- \$280,099.68, an increase of \$7,344.30 (2.69%). It should be noted \$10,000 was moved from this account to checking account to cover society expenses.

Aquatic Endowment Account- \$183,751.29, an increase of \$12,741.24 (7.45%)

Total increase in accounts from January 1 is \$20,085.54 (\$30,085.54 with the \$10,000 deducted)

Asset Allocation by Major Type (Most Recent)

- Mutual Funds 46.52%
- Fixed Income Securities 38.15%
- Equities 14.12%
- Cash Equivalents 1.21%

Market Value Over Time (YTD)

Account	Change %	Change
All Accounts	4.53%	+20,085.54
AQUATIC ENDOWMENT	7.45%	+12,741.24
AQUATIC PLANT	2.69%	+7,344.30

All Accounts
\$463,850.97

AQUATIC ENDOWMENT	183,751.29
AQUATIC PLANT	280,099.68

Dashboard

⚙

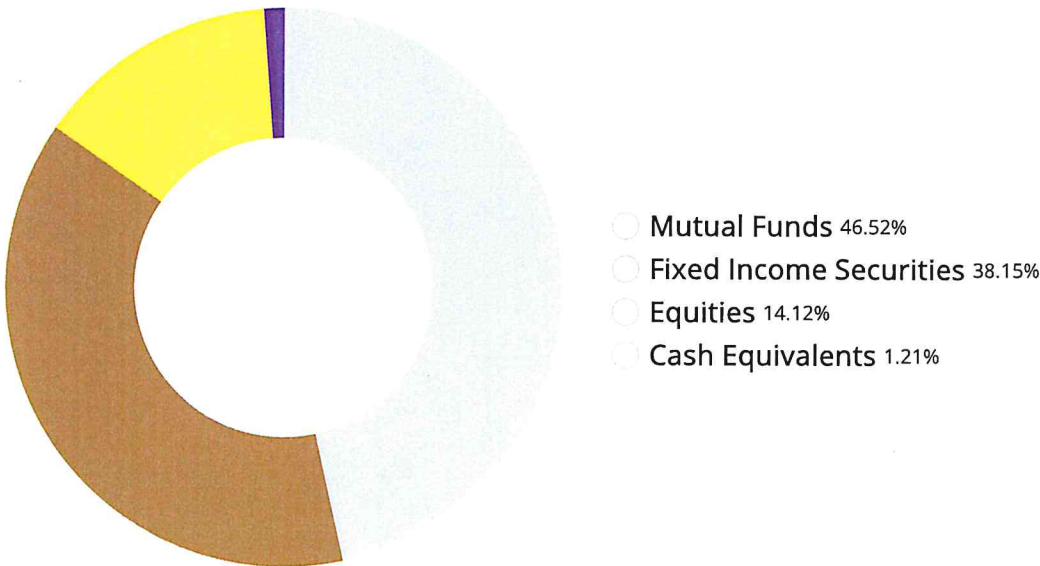
Selected Accounts

AQUATIC ENDOWMENT

AQUATIC PLANT

✎

Asset Allocation by Major Type (Most Recent)



Market Value Over Time (YTD)

Account	Change
All Accounts	+20,085.54 +4.53%
AQUATIC ENDOWMENT	+12,741.24 +7.45%
AQUATIC PLANT	+7,344.30 +2.69%

AQUATIC ENDOWMENT

Performance Report

Jan 2021 - Jun 2021

Asset Class: Account

Returns

Total Account
7.49%

Composite Index
0.00%

Account Performance

Beginning MV (1/1/2021)	\$171,087.22
Net Change	0.00
Additions	0.00
Subtractions	0.00
Ending MV (6/30/2021)	\$183,882.91
Net Change in MV	\$12,795.69



● Account +7.49% ● Composite 0.00%

AQUATIC PLANT

Performance Report

Jan 2021 - Jun 2021

Asset Class: Account

Returns

Total Account
6.51%

Composite Index
0.00%

Account Performance

Beginning MV (1/1/2021)	\$272,879.64
Net Change	-10,000.00
Additions	0.00
Subtractions	-10,000.00
Ending MV (6/30/2021)	\$280,302.32
Net Change in MV	\$17,422.68



● Account +6.51% ● Composite 0.00%

Legislative Committee Report

Rob Richardson, Chair

No report at this time.

Meeting Planning Report

Rob Richardson, Chair

No report at this time.

**Membership Committee Report
July 2021**

Submitted by: Marc Bellaud

A verbal update will be provided at the July 2021 Meeting.

Nominating Report – Mark Heilman, Nominating Committee Chair
Excerpted from the APMS Spring 2021 Newsletter

2021-2022 APMS Officer and Director Nominees

The following candidates have been selected by the Nominating Committee for consideration to serve on the APMS Board of Directors. The Nominating Committee suggests a slate of candidates for positions that are about to come open on the Board. Each candidate must meet specific criteria set forth in the APMS Bylaws. The Board of Directors has approved the slate and active members will vote to approve or amend the slate of proposed officers and directors. Members will be notified in the coming weeks as to how to cast votes prior to the Annual Business Meeting – which will have both an in-person component and a virtual component – in July 2021.

Office	Name	Affiliation	Location
Vice-President	Dr. Jason Ferrell	UF/IFAS Center for Aquatic & Invasive Plants	Gainesville, FL
Director	Dr. Toni Pennington	Environmental Science Associates	Bend, OR
Director	Mr. Matthew Johnson	Aquatic Control	Seymour, IN
Editor	Dr. Ramon Leon	NC State University	Raleigh, NC

Dr. Jason Ferrell earned a B.S. and M.S. in Plant and Soil Science from the University of Kentucky in 1998 and 2000, and a Ph.D. in Weed Science from the University of Georgia in 2003. He joined the University of Florida as an Assistant Professor in 2004 with responsibilities in weed management and herbicide stewardship. In the time since, he has attained the rank of Associate Professor (2009) and Professor (2014). Dr. Ferrell became the Director of the UF's Center for Aquatic and Invasive Plants in 2017 where he helps coordinate and promote invasive plant research and extension activities throughout the UF Institute of Food and Agricultural Sciences (IFAS). In 2019 he took leadership of the IFAS Pesticide Information Office which directs pesticide licensing/testing and extension outreach activities for pesticide safety and compliance.

Dr. Ferrell has chaired or co-chaired 22 graduate students and published over 110 refereed journal articles in his career. He currently serves as Editor of the *Journal of Aquatic Plant Management* and sits on the Board of Directors of the Aquatic Plant Management Society.

Dr. Toni Pennington is an aquatic biologist with more than 20 years of experience in the research and management of nuisance aquatic plants across the western U.S.; developing and implementing sampling and analysis plans for freshwater systems; developing AIS management plans across multiple local, state, and federal agencies; conducting wetland delineations according to regional USACE guidance; supporting water quality and aquatic plant studies for FERC licensing projects; and conducting vegetation surveys. Her research on aquatic plants has included physiological studies to improve management of nonnative species, ecological studies

on nutrient requirements, and herbicide efficacy studies to determine lowest dose requirements for management. She has led numerous multi-year projects in reservoirs and rivers developing integrated aquatic vegetation management plans, providing treatment recommendations, and supporting clients in developing bid specifications for a variety of controls including diver-assisted hand-pulling, installation of benthic barriers, and the application of EPA- and state-approved aquatic herbicides. Toni volunteers in a number of organizations related to the prevention and control of AIS, including the Western Aquatic Plant Management Society where she has served in all board positions, Oregon Lakes Association (current Director), Washington Lake Protection Association, North American Lake Management Society, Columbia Basin Cooperative Weed Management Area, and Western Regional Panel on Aquatic Nuisance Species. Toni received her PhD from Portland State University, MS from Texas State University, and BS from Fort Lewis College, and she has also co-authored peer reviewed articles and book chapters on AIS.

Mr. Matthew Johnson serves as President of Aquatic Control, where he has been employed since 1993. His career has spanned all facets of company operations, including work in shipping, aquatic vegetation management, fish population surveys, fountain/aeration systems installation, fisheries management and stocking, and revegetation projects. He has extensive experience in managing Eurasian watermilfoil, as well as marketing and business operations related to aquatic plant management. He holds a B.S. degree in business administration with an emphasis in marketing from the University of Southern Indiana.

Mr. Johnson's professional affiliations include the Indiana Lake Management Society, Illinois Lake Management Association, Ohio Lake Management Society, The Aquatic Plant Management Society, The Midwest Aquatic Plant Management Society, The Mid-South Aquatic Plant Management Society, Aquatic Ecosystem Restoration Foundation, Responsible Industry for a Sound Environment, Indiana Professional Lawn and Landscapers Association, Indiana Golf Course Superintendents Association, and the Midwest Regional Turf Foundation. He is a PADI Certified SCUBA Diver. In his spare time, Mr. Johnson enjoys hiking, golfing, or other adventures with his wife and two sons.

Dr. Ramon Leon is an associate professor of Weed Biology and Ecology in the Department of Crop and Soil Sciences, North Carolina State University, USA. Previously, he was an associate professor of Weed Science at the University of Florida, USA, professor of Weed Science at EARTH University in Costa Rica, and assistant professor at California Polytechnic State University, San Luis Obispo, USA. Dr. Leon obtained a Ph.D. (2005) and M.S. in Crop Production and Physiology (2003) with emphases on Weed Science and Seed Science, and a Ph.D. in Genetics (2005) from Iowa State University, and a B.S. in Agronomy (2000) from the University of Costa Rica. His research has focused on understanding changes in weed dynamics in response to management and environmental factors. He has published over 112 peer-reviewed scientific articles, 2 book chapters, and 202 abstracts. He is an associate editor for Weed Science, Weed Research, Peanut Science, and previously for the journals Weed Technology and Agronomy.

Past Presidents' Advisory Committee
Mark Heilman, Chair

No report at this time.

Program Committee

Ryan Thum, Chair

No report at this time.

Proposal Review Committee
Mark Heilman, Chair

No report at this time.

Publications Committee – Journal of Aquatic Plant Management
July 2021 Board Meeting
Jason Ferrell

Please see Editor's Report

Regional Chapters Committee
Gray Turnage, Chair

My report is very short. We met in 2020 to establish this committee but due to COVID we didn't meet again. The RC committee was asked to request Student Scholarship support from each chapter for the Mike D. Netherland student scholarship. They were also asked to encourage students within their regions to apply for this scholarship.

Scholastic Endowment Committee
Tom Warmuth, Chair

No report at this time.

Strategic Planning Committee
Mark Heilman, Chair

Attached is a recent proposal from Dr. Ed Osborne, Professor Emeritus at University of Florida, to facilitate the anticipated January 2022 Strategic Planning effort presumably in Greenville, SC. Dr. Osborne provided excellent facilitation for the January 2017 Strategic Planning event in Daytona Beach and the resulting 2017-2021 plan. Please consider this proposal as part of the Board meeting preparations for next Monday.

June 28, 2021

Proposal for APMS Strategic Plan Facilitation Services

Presented by Dr. Ed Osborne, University of Florida

Date of service: January 2022

Event location: Greenville, SC

Primary deliverable: APMS 2022-2026 Draft Strategic Plan with updated vision and mission statements and new strategic goals, key outcomes, action steps, and measures of success


Requested Expenses:

<u>Item</u>	<u>Cost</u>
1. Facilitation fee (preparation, facilitation, and follow-up)	\$2,500
2. Flight (Gainesville, FL to Greenville, SC - estimated)	400
3. Airport transportation (round trip)	50
4. Hotel (2 nights) (complementary)	-----
5. Estimated non-comp meals	100
a. Lunch and dinner during travel to SC	
b. Breakfast and dinner on event day	
c. <u>Breakfast and lunch during travel to FL</u>	
Total estimated expenses	\$3,050

Contact information:

Ed Osborne
4822 NW 58th St.
Gainesville, FL 32653
352-872-2431 or ewo@ufl.edu.

Thank you!



Ed Osborne
Professor Emeritus
University of Florida

Student Affairs Committee
Sam Sardes, Chair

No report at this time.

AERF
Carlton Layne, Representative

No report at this time.

July 12, 2021

To: Board of Directors of the Aquatic Plant Management Society (APMS)

From: Jeremy G. Slade

Subject: Report of the BASS Special Representative

Since the APMS mid-winter BOD meeting, I've been communicating with Gene Gilliland - BASS National Conservation Director about the APMS/AERF mini-grant and attending the 2021 Bassmaster Classic held June 11-13, 2021 in Ft. Worth, Texas. Gene and I met at the Classic and discussed items that APMS and/or AERF could provide for BASS to use in the print (B.A.S.S. Times) and online (BASS Conservation) platforms. From the angler's perspective, Gene thought an outreach campaign would be beneficial. For instance, semantics of the commonly used terms that refer to managed plant species, "invasive, nuisance, exotic, or native" and "control, eradication, and maintenance". I told Gene I would discuss this with the Board and provide copies of items we thought were relevant so then he and the BASS writer Robert Montgomery could review for a piece. The white paper *A Manager's Definition of Aquatic Plant Control* by Netherland and Schardt (<http://www.apms.org/wp/wp-content/uploads/2012/09/APMS-definition-of-control.pdf> ; <http://www.apms.org/wp/wp-content/uploads/2012/09/APMS-control-table.pdf>) was one item that came to mind during the discussion.

Gene received 5 proposals from various BASS affiliates from across the country (KS, KY, NH, NM, VA). I will provide these to designated representatives of each organization for review and to decide who the receipt should be based on project merit and impact.

The 2022 Bassmaster Classic and Conservation Summit will be held in Greenville, South Carolina back during its normally scheduled time of February/March. Gene suggested that we begin thinking of how we might want to participate such as having a half day session focused on aquatic plant management items (i.e., plant ID, talks about types of management tools or facts/myths surrounding APM, fish care, history of management of a specific waterbody, etc.). In year's past APMS has supported the Conservation Summit alongside AERF with matching dollars in the amount of \$3000 (\$1500 each).

Respectfully submitted,

A handwritten signature in cursive script that reads "Jeremy Slade".

Jeremy Slade

CAST
Lyn Gettys, Representative

No report at this time.

To: APMS Board

From: Terry McNabb

Re: NALMS Report

No Report at This Time.

RISE
Sam Barrick, Chair

No report at this time.

WOA
Amy Kay, Chair

No report at this time.

WSSA

Rob Richardson, Representative

-
- No Report at this time.

SCIENCE POLICY REPORT
Lee Van Wychen
APMS Annual Meeting- New Orleans, LA
July 12-14, 2021

Pinkham Serving as Acting Assistant Secretary of the Army for Civil Works



Mr. Jaime A. Pinkham was appointed Principal Deputy Assistant Secretary of the Army for Civil Works on April 19, 2021, and is also serving as the Acting Assistant Secretary of the Army for Civil Works. Prior to his appointment, he served as the executive director of the Columbia River Inter-Tribal Fish Commission in Portland, OR since 2017. Prior to that, he was the vice president of the Bush Foundation in St. Paul, MN. He led the Foundation's Native nations program and worked with tribes across ND, SD and MN as they redesigned their governing systems.

Ex-Interior Dept. Official Nominated for Top Army Civil Works Post



Michael Connor, former commissioner of the Bureau of Reclamation, was nominated on April 27 to be the Assistant Secretary of the Army for Civil Works, which oversees all civilian work for the U.S. Army Corps of Engineers. Connor held the number-two position at Interior from 2014 to 2017 during the Obama administration. Before that, he was commissioner of Interior's Bureau of Reclamation, from 2009 to 2014. Connor currently is a partner in the law firm Wilmer Cutler Pickering Hale and Dorr LLP. He worked on Capitol Hill from 2001 to 2009, as counsel to the Senate Energy and Natural Resources Committee.

The Secretary of the Army, Christine Wormuth, was confirmed by the Senate on May 27.

Confirmed Federal Agency Leaders

USDA Secretary – Tom Vilsack

USDA Deputy Secretary – Jewel Brunaugh

USDA Under Secretary for Research, Education, and Economics- no nominee

DOI Secretary – Deb Haaland

DOI Deputy Secretary- Tommy Beaudreau

DOI Assistant Secretary for Fish, Wildlife and Parks- Shannon Estenoz

DOI Assistant Secretary for Water and Science – Tanya Trujillo

No nominees for Director's of NPS, FWS, & USGS

EPA Administrator- Michael Regan

EPA Deputy Administrator – Janet McCabe

EPA Assistant Administrator for Chemical Safety & Pollution Prevention- Michal Freedhoff

EPA Assistant Administrator for Research and Development- no nominee

EPA Assistant Administrator for Water- Radhika Fox

Council on Environmental Quality (CEQ) Chair- Brenda Mallory

Aquatic Weed Expertise Needed for the 2021 Weed Survey

The 2021 survey of the most common and troublesome weeds in aquatic and non-crop areas in the U.S. and Canada is here! <https://www.surveymonkey.com/r/2021WeedSurvey>

We invite you to participate in this year's weed survey to list the five most common and troublesome weeds in at least one of the following areas:

- 1) Aquatic: irrigation, flood control
- 2) Aquatic: lakes, reservoirs, rivers
- 3) Aquatic: ponds
- 4) Forestry
- 5) Natural Areas: parks, wildlife refuges
- 6) Ornamentals: field nursery crops, outdoor containers, Christmas trees
- 7) Right-Of-Ways: railways, roads, public utilities

Common weeds refer to those weeds you most frequently see, while troublesome weeds are those that are most difficult to control, but may not be widespread. Your expertise is important and will be invaluable in highlighting weed species trends over time.

Survey: <https://www.surveymonkey.com/r/2021WeedSurvey>

Eagle Killing Neurotoxin Linked to Hydrilla Identified

Bald eagles, as well as other wildlife, have been succumbing to vacuolar myelinopathy (VM) in the southern U.S. since the 1990s. In a March 2021 issue of *Science*, researchers finally identified the neurotoxin, aetokthonotoxin (AETX), which is produced by the cyanobacterium *Aetokthonos hydrillicola* that is the cause of VM deaths. The cyanobacterium, *A. hydrillicola*, grows very well on hydrilla covering 20-90% of its leaf surfaces. *A. hydrillicola* has also colonized hydrilla in more than half the watersheds in the southeastern US.

Reference: "Hunting the eagle killer: A cyanobacterial neurotoxin causes vacuolar myelinopathy" by Breinlinger et al., 26 March 2021, *Science* 371. DOI: [10.1126/science.aax9050](https://doi.org/10.1126/science.aax9050)

There was some controversy created by inaccurate media reports that linked the herbicide diquat dibromide as a possible cause. AETX biosynthesis relies on the availability of bromide. The authors recognize that a number of conditions may increase or even decrease bromide availability such as environmental conditions (e.g., lake turnover, agitation), natural sources (e.g., geologic), as well as anthropogenic sources (e.g., power plants, water treatment plants, gasoline additives, chemicals, plant management). Breinlinger et al. (2021) state that "the consequences of elevated bromide from geologic and anthropogenic sources (e.g., water treatment and power plants) on VM should be further investigated".

It should be noted that there are VM-positive water bodies with AETX where diquat has never been used. Likewise, diquat controlling hydrilla is desired because hydrilla is the source of the problem. Furthermore, the water concentration of bromide after a diquat application is 25 to 125 times below the optimum water concentration of bromide required for AETX production.

The bigger travesty in all of this is that **hydrilla is a federally listed noxious weed**, and without question, the most widespread aquatic noxious weed on the federal list. APHIS Plant Protection and Quarantine (PPQ) has limited funding for managing and preventing the interstate spread of federal noxious weeds under the Plant Protection Act. While APHIS has active permits for two hydrilla biocontrol agents, *Hydrellia balciunasi* and *Hydrellia pakistanae*, unfortunately, APHIS confirmed that they **do not have a current program** for the control and management of hydrilla. I am having ongoing conversations with APHIS on this issue.

EPA Announces Plan to Revise WOTUS Definition

On June 17, 2021, the EPA and the Army Corps of Engineers announced plans to revise the definition of “waters of the U.S.” or WOTUS to determine which waterways and wetlands federal agencies can regulate under the Clean Water Act.

The agencies also intend to initiate a new rulemaking process to restore the pre-2015 definition of what constitutes WOTUS and have requested a federal judge to remand the Trump Administration’s 2020 Navigable Waters Protection Rule. The 2020 rule, which replaced the Obama Administration’s 2015 Clean Water Rule, moved WOTUS back towards Congress’s original intent of “navigable waters” and removed ephemeral streams that flow only after heavy rainfall or snowmelt as well as wetlands without surface water connections to intermittent or perennial streams from the agencies definition of WOTUS.

Many agricultural and homeowner groups are opposed to changing the current Navigable Waters Protection Rule because they feel it provided long-overdue certainty and clarity for landowners affected by the scope of WOTUS’ jurisdiction. There is concern about government overreach and regulatory confusion in how federal agencies decide which waters of the United States they can regulate.

The Biden Administration eventually plans to draft its own definition of which waterways, wetlands and groundwater they can regulate by *“drawing from the lessons learned from the current and previous regulations, as well as input from a wide array of stakeholders, so we can better protect our nation’s waters, foster economic growth, and support thriving communities.”* More information about the new rulemaking is forthcoming.

APMS Congressional Visits to Secure 2020 WRDA Appropriations

The 2020 Water Resources Development Act (WRDA) was included as part of the massive 5000+ page Consolidated Appropriations Act of 2021 that was passed in December. New invasive species provisions “authorized” in 2020 WRDA include:

- 1) Authorizes \$25 million for a **Harmful Algal Bloom (HAB)** demonstration program to *“determine the causes of, and implement measures to effectively detect, prevent, treat, and eliminate, harmful algal blooms associated with water resources development projects”*. The HAB demonstration program will be carried out by ACOE with focus areas in the Great Lakes, the tidal and inland waters of New Jersey, the coastal and tidal waters of Louisiana, the waterways of the counties that comprise the Sacramento-San

Joaquin Delta, California, the Allegheny Reservoir Watershed in New York, and Lake Okeechobee, Florida.

- 2) Directs the Army Corps to conduct a **terrestrial noxious weed control** pilot program in consultation with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) *“to identify and develop new and improved strategies for terrestrial noxious weed control on federal land under the jurisdiction of the Secretary (of the Army)”*.
- 3) Authorizes \$50 million per year for FY 2021 - 2024 for ACOE to *“enter into partnerships with applicable States and other Federal agencies to carry out actions to prevent the introduction of, control, or eradicate invasive species that adversely affect water quantity or water quality”* in the Platte River Basin, the Upper Colorado River Basin, the Upper Snake River Basin, and the Upper Missouri River Basin. ACOE shall give priority to projects that are intended to control or eradicate **Russian olive (*Elaeagnus angustifolia*) or saltcedar (of the genus *Tamarix*)**.
- 4) Authorizes \$10 million for the Secretary of the Interior, acting through the Director of the U.S. FWS, to establish a pilot program *“to remove invasive plant species in riparian areas that contribute to drought conditions”* in the Lower Colorado River Basin; the Rio Grande River Basin; the Texas Gulf Coast Basin; and the Arkansas-White-Red Basin; and where appropriate, to replace the invasive plant species with ecologically suitable native species and to maintain and monitor those riparian areas.
- 5) Authorizes \$25 million for the Secretary of the Interior, acting through the Director of the U.S. FWS, to establish a pilot program *“to develop and carry out effective measures necessary to prevent, control, or eradicate aquatic invasive species in alpine lakes that are not located within a unit of the National Park System”*.

The authorized programs look good on paper, but we need to continue to work to get appropriations for these programs. The Army Corps of Engineers funding (items 1-3 above) comes through the **Energy and Water Appropriations Subcommittees** in the House and Senate. The chairs and ranking members of those committees are from the states of **OH, ID, CA, and LA**. The Dept. of the Interior funding (items 4-5 above) comes through the **Interior and Environment Appropriations Subcommittees** in the House and Senate. The chairs and ranking members of those committees are from **ME, OH, OR, and AK**.

We need to continue to identify APMS members from those states to help us get meetings with those committee staff. The House Appropriations committees have just begun to release their budget numbers for FY 2022 and once we have those numbers, we'll have a better idea of where to focus our efforts.

National Invasive Species Awareness Week (NISAW)- Part II

NISAW Part II was May 15-22, 2021 and focused on local invasive species prevention and removal events, plus included five educational webinars. The [North American Invasive Species Forum](#) was also held virtually during NISAW Part II and led by the Canadian Council on Invasive Species. The webinars from NISAW part II are now available. Click a link to begin watching.

- May 17: [The Climate Crisis and Invasive Species](#)
- May 18: [Biological Threat Surveillance Tools \(US Geological Survey Special Event\) and The Model Legislative Framework for State Aquatic Nuisance Species \(ANS\) Programs and Resource Toolkit for Local Governments](#)
- May 19: [The Regulatory Process for Classical Weed Biological Control](#)
- May 20: [Aquatic Plant Management Priorities](#)
- May 21: [A Comparison of State Noxious Weed Lists and The Western Weed Action Plan](#)

The May 20th webinar on Aquatic Plant Management Priorities was sponsored by APMS and included the following three presentations:

- Presentation 1 - An Overview of the Aquatic Plant Management Society (APMS) presented by **Dr. Ryan Wersal**, President of APMS and Assistant Professor of Aquatic Plant Ecology in the Department of Biological Sciences at Minnesota State University Mankato
- Presentation 2 - Hydrilla in the Connecticut River presented by **Dr. Greg Bugbee** with the Connecticut Agricultural Experiment Station
- Presentation 3 - Challenges and Successes with Long-Term Control of Invasive Weeds presented by **Jeremy Crossland** and **Mike Greer** with the U.S. Army Corps of Engineers

Support for \$11.5 Billion in Research Infrastructure at Land Grant Universities

APMS, WSSA and the regional weed science societies joined over 350 other national, regional, and state organizations and companies in a letter to House and Senate Agriculture Committee leadership to request their support for \$11.5 billion in ag research infrastructure investments over five years. This investment in our 1862, 1890, and 1994 land grant and non-land grant schools of agriculture is necessary in order to ensure the U.S. remains a global leader in food and agricultural innovation. A recent study commissioned by the Association of Public & Land-Grant Universities (APLU) assessed the state of facilities at U.S. colleges and schools of agriculture and reported that 69% of these buildings are at the end of their useful life. [Click here](#) to read the letter and see the signatories.

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Meetings of the National and Regional Weed Science Societies

Jul. 11 - 14, 2021 Aquatic Plant Management Society (APMS), New Orleans, LA www.apms.org
Dec. 13 - 16, 2021 North Central Weed Science Society (NCWSS), Grand Rapids, MI www.ncwss.org
Jan. 3 - 6, 2022 Northeastern Weed Science Society (NEWSS), Gettysburg, PA www.newss.org
Jan. 23 - 27, 2022 Southern Weed Science Society (SWSS), Austin, TX www.swss.ws
Feb. 21 - 24, 2022 Weed Science Society of America (WSSA), Vancouver, BC www.wssa.net
Mar. 7 - 10, 2022 Western Society of Weed Science (WSWS), Newport Beach, CA www.wsweedscience.org