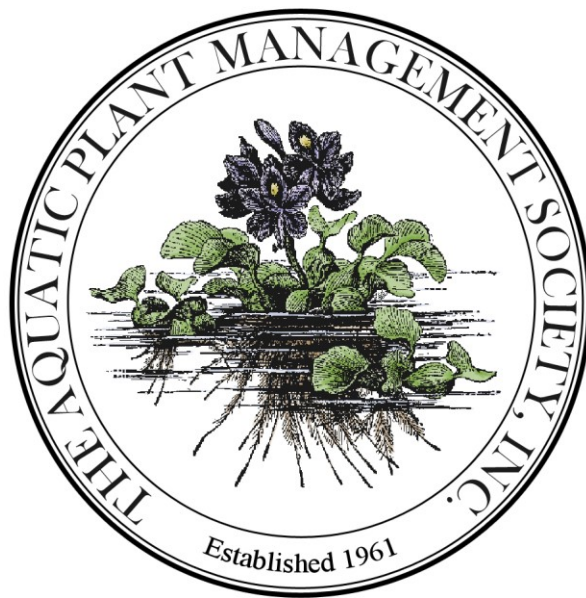


The Aquatic Plant Management Society



**Board Meeting
Shores Hotel
Daytona Beach, FL
January 25, 2017**

AGENDA

Aquatic Plant Management Society, Inc.
Meeting of the Board of Directors
Shores Hotel
Daytona Beach, FL
January 25, 2017

~ Continental breakfast provided ~ 7:30 a.m.

8:00 a.m. Call to Order
10:00 a.m. Morning Break
12:00 p.m. Lunch - Board Room
12:30 p.m. Board van for Hilton Hotel - tour for Annual Meeting logistics
2:00 p.m. Reconvene Board Meeting at Shores Hotel
3:15 p.m. Afternoon Break
5:00 p.m. Adjourn

8:00 a.m. CALL TO ORDER - President John Madsen

ROLL CALL - Secretary Jeff Schardt
Seating of Proxies
Recognition of Visitors

MINUTES - Approval of Minutes from the Board of Directors Meetings held July 17 and 20, 2016,
and Minutes of the Annual Business Meeting held July 18, 2016 in Grand Rapids, MI.

REPORT OF THE PRESIDENT - John Madsen

REPORT OF THE TREASURER - Jeremy Slade

REPORT OF THE SECRETARY - Jeff Schardt

REPORT OF THE EDITOR - Jay Ferrell

Approval of Officer Reports

COMMITTEE REPORTS

Awards - Mike Netherland
Bylaws and Resolutions - Vernon Vandiver
Education and Outreach - Jeff Schardt
Exhibits - Dean Jones
Finance - John Gardner
Legislative – Rob Richardson
Meeting Planning - Tommy Bowen

Membership - Mark Heilman
Nominating - Rob Richardson
Past President's Advisory - Rob Richardson
Program - John Rodgers
Proposal Review - Rob Richardson
Publications - Jay Ferrell
Regional Chapters - Craig Aguillard
Scholastic Endowment - Tom Warmuth
Strategic Planning - Mark Heilman
Student Affairs - Chris Mudge
Web Site - Karen Brown

SPECIAL REPRESENTATIVE REPORTS

AERF - Carlton Layne
BASS - Gerald Adrian
CAST - Joe Vassios
NALMS - Terry McNabb
RISE - Sam Barrick
Women of Aquatics - Amy Kay
WSSA - Rob Richardson
Science Policy Director - Lee Van Wychen

Approval of Committee and Special Representative Reports

OLD BUSINESS

- 1) Update on Starry Stonewort Research Grant request for proposals
- 2) Review APMS Florida algal bloom press release draft – discuss next step

NEW BUSINESS

- 1) Board action on \$5,000 sponsorship request for 20th International Conference on Aquatic Invasive Species
- 2) Consider \$1,000 sponsorship request for Florida Plant Camp
- 3) Vote on CAST annual dues payment - \$1,500

5:00 p.m. ADJOURN - President John Madsen

The Aquatic Plant Management Society, Inc.
7922 NW 71st Street
Gainesville, FL 32653
www.apms.org

2015 - 2016 Officers and Directors

Officers

President - Rob Richardson
North Carolina State University

President Elect - John Madsen
USDA - ARS, EIWRU

Vice President - John Rodgers
Clemson University

Immediate Past President - Cody Gray
UPI

Treasurer - Jeremy Slade (2/3)
UPI

Secretary - Jeffrey Schardt (3/3)
FL FWC (Retired)

Editor - Jason Ferrell (3/3)
University of Florida

Directors

Mark Heilman (3/3)
SePRO Corporation

Vernon V. Vandiver Jr. (3/3)
University of Florida

Dick Pinagel (2/3)
Aqua-Weed Control, Inc.

Ryan Wersal (2/3)
Lonza

Brett Hartis (1/3)
Tennessee Valley Authority

Ryan Thum (1/3)
Montana State University

Student Director

Kallie Kessler
Colorado State University

2015 - 2016 Committee Chairs and Special Representatives

<u>Committee</u>	<u>Chair</u>	<u>Representative</u>	
Awards	Mike Netherland	AERF	Carlton Layne
Bylaws and Resolutions	Vernon Vandiver	BASS	Gerald Adrian
Education and Outreach	Jeff Schardt	CAST	Joe Vassios
Exhibits	Craig Aguiard	NALMS	Terry McNabb
Finance	John Gardner	RISE	Sam Barrick
Legislative	John Madsen	Women of Aquatics	Amy Kay
Meeting Planning	Tommy Bowen	WSSA	Rob Richardson
Membership	Mark Heilman	Science Policy Director	Lee Van Wychen
Nominating	Cody Gray		
Past President's Advisory	Cody Gray		
Program	John Madsen		
Publications	Jay Ferrell		
Regional Chapters	John Rodgers		
Scholastic Endowment	Tom Warmuth		
Strategic Planning	Mark Heilman		
Student Affairs	Chris Mudge		
Web Site	Karen Brown		
Newsletter Editor	Jeffrey Schardt		

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January 25, 2017

Daytona Beach, FL

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THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting

July 17, 2016

Amway Grand Plaza Hotel

Grand Rapids, Michigan

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Sunday, July 17, 2016. President Rob Richardson called the meeting to order at 8:00 a.m.

Officers and Directors present at roll call were:

Rob Richardson, President
John Madsen, President Elect
John Rodgers, Vice President
Cody Gray, Immediate Past President
Jeremy Slade, Treasurer
Jeff Schardt, Secretary
Jason Ferrell, Editor
Mark Heilman, Director
Vernon Vandiver, Director
Dick Pinagel, Director
Ryan Wersal, Director
Brett Hartis, Director
Ryan Thum, Director

Others in attendance during portions of the meeting:

Craig Aguillard, Exhibits Committee Chair
Tommy Bowen, Meeting Planning Committee Chair
John Gardner, Finance Committee Chair
Ken Manuel, Guest - former APMS President
Todd Olson, Guest - Aquatic Vegetation Control
Bill Torres, Meeting Manager
Lee Van Wychen, Science Policy Advisor
Tom Warmuth, Scholastic Endowment Committee Chair
Sherry Whitaker, Guest - APMS Meeting Registration
Steve Zulinski, Guest - MAPMS Treasurer

MINUTES

The Minutes of the Midyear Board of Directors meeting held on January 26, 2016, in Grand rapids, MI, and e-mail votes discussed since the Midyear BOD meeting were considered by the Board for approval. Two errors were identified and amended.

Jason Ferrell motioned the Board to accept the Minutes and post-Midyear email votes as amended. Dick Pinagel seconded the motion. The motion passed without dissenting vote.

PRESIDENT'S REPORT

President Richardson advised that he attended and provided an APMS update at the Midwest and Western APMS annual meetings. He also attended the Southern and International Weed Science Society meetings.

Richardson provided brief updates on EPA paraquat and diquat review status as well as atrazine and sulfonyleureas. The latest NPDES fix failed related to Zika virus issues, the Waters of the U.S. regulations are still pending. Lee Van Wyche will elaborate in his Science Policy report. APMS cosigned with WSSA on several comments to EPA, including a comment on full herbicide label rates relating to field crop vs. aquatic uses, agreed to by WSSA. EPA (for registrations and reregistrations) is considering banning herbicide tank mixtures unless the company can demonstrate there is no off-target threat.

The Australasia Regional APMS Chapter discussion is ongoing with about 40 interested persons.

TREASURER'S REPORT

Treasurer Jeremy Slade summarized APMS account balances. As of July 6, 2016, the General Account had a balance of \$311,636.40 with \$88,134.33 in checking and \$223,502.07 (as of 6-30-16) in general investments. The Education and Outreach Account had a balance of \$180,060.30 with \$28,208.88 in checking and \$151,851.42 (as of 6-30-16) in investments. The combined assets for the APMS total \$491,696.70.

Slade referred to the favorable audit report conducted by Winston, Williams, Creech, Evans and Company, LLP.

SECRETARY'S REPORT

Secretary Schardt reported that Minutes from APMS Board meetings from 2001 - January 2016 and are posted on the APMS website. Duke Energy paid for printing the 200 Annual Meeting Programs, printed at PRIDE Industries of Florida.

Schardt reported the APMS Membership is staying fairly constant at approximately 280. During each joint meeting APMS picks up about 50 or so new members, likely from the local region through the ability for people to become members when paying meeting registration costs. However, most do not pay membership dues for ensuing years even after 2-3 prompts. There was discussion to send a first annual membership dues invoice via email on January 1. Send a second invoice on March 1 via postal mail and a third reminder via email prior to the annual meeting.

Subscription memberships remain low at about 35. A few subscribers that dropped out when SWETS Subscription Service went bankrupt have now rejoined APMS via other services. APMS

receives inquiries at this time each year from Subscription Services regarding Journal costs for the upcoming year. The Board recommended keeping the Journal cost at \$200 per year.

The Secretary Office re-acquired the duty of publishing the APMS Newsletter since the previous Board meeting. The Newsletter, published in October, March, and June, is provided online on the APMS website. Most of the Newsletter content is related to upcoming APMS functions such as the annual meeting, Graduate Student Research Grant, Bylaws revisions, and annual slate of nominees for APMS Officers and Directors. Schardt asked Board members to send current event content outside standard APMS functions for publication in the Newsletter.

EDITOR'S REPORT

Editor Jay Ferrell reported that the July 2016 issue of the Journal of Aquatic Plant Management (JAPM) was shipped in late June, 2016, so the Journal continues to be on time. The article submission acceptance rate is around 70% - much higher than the 50% rate from previous years and for similar journals. Ferrell attributes this to a reduction in foreign article submissions. Foreign submissions do not always focus on aquatic plant management issues and are more often rejected. APMS receives about 50 article submissions per year, with the majority received after August. Only 25 were submitted in 2015. This also seems in line with similar societies. Submissions are increasing for 2016. Associate Editors are continuing to reduce the amount of time to complete the review process with an average 48 days from receipt of a submission to first notification to the author.

There was follow-up discussion on APMS going to open access for published articles. APMS asks authors to not post articles anywhere else for two years after publishing in JAPM. APMS maintains a two-year lag period before posting articles on the website as an incentive to subscribe to the JAPM for current information. APMS asks authors for \$500 to make articles accessible to anyone over the internet. At first there was great interest in open access with many authors paying for this service. Ferrell and Slade reported that only three authors may request this service for the two 2016 JAPM issues.

Ryan Wersal motioned the Board to accept the Officer Reports. Ryan Thum seconded the motion. The motion passed without dissenting vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: Chair Mike Netherland provided a slate of awards that will be presented at the Tuesday Awards Banquet.

Bylaws and Resolutions Committee: Proposed Bylaws changes were advertised in the March and June Newsletters and will be presented for approval at the Annual Business Meeting.

Education and Outreach Committee: Chair Jeff Schardt reported that two PowerPoint presentations are posted on the Members Only section of the APMS web site. These presentations are available to Members making presentations at Regional Chapter or similar

Society meetings, providing some history of the APMS and to update awards presented at the 2016 Annual Meeting.

APMS sponsored two instructors from Tennessee to attend Plant Camp 2016 in Florida. Brett Hartis reported that these teachers will participate along with 24 other teachers, mostly from eastern Tennessee, in a Plant Camp at Harrison Bay State Park in the TVA system on September 21-22, 2016.

APMS provided about \$11,500 to the UF to update the 45-minute Silent Invader PowerPoint presentation to give it a national perspective vs. the current FL focus. Silent Invaders is the key to students understanding invasive plants and teachers to adapt and implement the Lakeville activity. Any teacher could then implement Lakeville in any part of the country without first getting an APMS sponsor to modify it to that region. UF anticipates this project to be completed in August 2016.

Exhibits Committee: Jeremy Slade provided some updates to Chair Craig Aguillard's report that 21 Exhibitors will exhibit at the Annual Meeting, with a total income to APMS of \$15,400. Sponsors have contributed approximately \$44,170 to the Annual Meeting.

Finance Committee: Chair John Gardner reported there is an approximate 50-50 split in bond-stock investment which has returned approximately 6% year-to-date. Over the past three years this investment ratio has returned about 3.5%. Performance from the Scholastic Endowment Account has been less, returning about 2.9% year-to-date and 5.0% over the last three years.

Legislative Committee: Chair John Madsen provided a written overview of issues and deferred to the Science Policy Report later in the meeting for legislative activity details.

Meeting Planning Committee: Chair Tommy Bowen reported that registration for the 2016 Annual Meeting is around 140 now and likely heading to 150-160.

The contract is signed for the 2019, 59th Annual Meeting in San Diego, CA. Bill Torres negotiated a room rate of \$169 per night – far less than any other site in the area for comparable accommodations.

Membership Committee: Chair Mark Heilman has set up a survey questionnaire for membership demographics prior to the January 2017 Strategic Planning meeting. Heilman reported that there will be an aquatics session at the NALMS November 2016 conference in Banff. Jeremy Slade indicated that, after contact with the American Fisheries Society, AFS is not interested in a joint meeting with APMS.

John Madsen added that LinkedIn has approximately 1,200 members in the Aquatics Group. The Group has existed for about 5.5 years. Madsen regularly promotes APMS and its activities. There currently is not an APMS Business Group.

Nominating Committee: Chair Cody Gray reviewed the following list of Nominees that was approved by the Board and advertised in the Newsletter.

Vice President	Craig Aguillard
Editor	Jason Ferrell
Secretary	Jeff Schardt
Director	Scott Nissen
Director	Todd Olson

There still is difficulty in finding members who wish to serve on the Board that have the required three previous consecutive years of APMS Membership. A suggestion was made to modify the Bylaws to substitute membership years on a Chapter Board of Directors for APMS general membership.

Past President's Advisory Committee: No report. The current President attends the Past Presidents' Luncheon and reports back to the Board at the Post-conference BOD Meeting.

Program Committee: Chair John Madsen thanked Torres, Bowen, and Schardt for handling administrative issues of the Program to allow the Program Committee to concentrate on presentation content.

APMS needs to stress to authors to enter complete information (including contact, title, and abstract info) into the WSSA website as soon as possible. Ask APEX to ensure easy upload of PowerPoint presentations into the WSSA website and for authors to abide by a strict deadline to upload. Also ask WSSA to provide a way to download presentations en masse, perhaps in a zip file, to load into the meeting presentation computer vs. downloading presentations one at a time. It should be stressed in the request for submissions that the APMS Annual Meeting is for science-based presentations with data to minimize submissions of sales or product update nature.

Publications Committee: There was no report in addition to the Editor's Report.

Regional Chapters Committee: Chair John Rodgers contacted Officers from all Regional Chapters for input on the Regional Chapter Luncheon Agenda and to confirm attendance at the luncheon. Rodgers and Slade contacted Chapters to work out Regional Chapter contributions toward the Graduate Student Research Grant offered every other year. APMS asks that Chapters contribute half of the GSRG funding. Some Chapters have not yet contributed, but others contribute up to \$2,000 so that the combined Chapter contribution is more than the requested 50% Chapter contribution.

Scholastic Endowment Committee: Chair Tom Warmuth provide a report. There was no additional discussion.

Strategic Planning Committee: The next APMS strategic planning session is scheduled for January 2017 with final Strategic Plan approval in July 2017. Chair Mark Heilman has contacted Dr. Ed Osborne at the University of Florida. Dr. Osborne has much experience in strategic planning, is local to the Daytona Beach strategic planning session, and has proposed a reasonable reimbursement request. Heilman recommended contracting with Dr. Osborne and will contact Osborne to attend the FAPMS annual meeting to get some flavor of APMS and Chapter activities.

There was discussion on attendees at the strategic planning meeting. FAPMS has requested a member to attend to gather experience for upcoming FAPMS strategic planning.

Mark Heilman motioned the Board to provide up to \$3,000 for Edward Osborne of UF to facilitate Strategic Planning at the APMS 2017 midyear Board meeting in Daytona. Jeff Schardt seconded the motion. The motion passed without dissenting vote.

Student Affairs Committee: Chair Chris Mudge reported that 19 students will present at the Annual Meeting. Currently there is one Student Poster scheduled. The number of student presenters is fluid and will be updated in the Post-conference Minutes.

Wersal initiated discussion on APMS expenditures for students: lodging, luncheon, post-conference tour, book, registration, meet-and-greet. Numbers suggest that about 10% of students that attend APMS meetings stay with aquatics after they graduate. Is this a reasonable APMS investment? Hartis added that the student activities provide venues for interaction with other students as well as APMS members vs. sitting in a room or just attending presentations. Student activities are among APMS highest core values. Thum pointed out that students get professional experience by presenting at the conference. Slade pointed out that students provide services at the conference in operating the audio-visual equipment. Rodgers suggested the APMS members could volunteer as mentors to discuss careers in research, industry, administration with student attendees. Identify mentors with a ribbon, provide a dinner, etc.

Website Committee: No report.

AERF: No report.

BASS: Representative Adrian provided a report. Jeremy Slade added that APMS and AERF each provided \$1,500 to sponsor the BASS Conservation Award for an aquatic habitat-related project. APMS also sponsored the Conservation Luncheon at \$2,750. Adrian asked that APMS continue to cooperate with BASS.

CAST: Joe Vassios provided a written report. There was little additional discussion. Joe Vassios was tasked to write a letter of support to CAST to proceed with the proposal on harmful algae blooms and water quality.

NALMS: Representative Terry McNabb provided a written report. Mark Heilman suggested that APMS set up a non-profit display at the November NALM conference.

Mark Heilman motioned the Board to pay the \$495 NALMS fee to set up a non-profit exhibit at the November 2016 NALMS conference, if needed. Ryan Thum seconded the motion. The motion passed without dissenting vote.

RISE: Sam Barrick provided a written report. Much of the report will be covered under the Science Policy Report.

Women of Aquatics: Representative Amy Kay provided a written report that included a Mission Statement, Goals and Progress. There was discussion that WOA needs to notify APMS if they will proceed as an APMS Standing Committee or a stand-alone entity with APMS Special Representative status.

WSSA: Representative Rob Richardson reported on WSSA activities. WSSA membership has declined significantly in recent years especially with corporate mergers. The 2017 meeting will be held in Tucson, AZ. WSSA will be replacing their Executive Secretary. WSSA is switching from Allen Press to Cambridge for journal publication, anticipating a cost-savings. They will also switch to online vs. printed journal and doing away with open access.

WSSA discovered that federal agencies do not allow employees to write checks / approve invoices for not-for profit entities like APMS. This may be an issue with APMS with 2016-2017 President John Madsen who is a USDA employee. After much consideration, the following motion was proposed:

John Madsen motioned the Board that the APMS Immediate Past President may act for the President in approving invoices or other financial transactions. Vernon Vandiver seconded the motion. The motion passed without dissenting vote.

Science Policy Director: Lee Van Wychen provided a report with many topics, leading off with Tank Mix Prohibitions / Herbicide Synergism Uncertainties. EPA is requiring DOW to apply for a patent for the herbicide tank mix synergism of 2,4-D and glyphosate. EPA is concerned that tank mix synergism may pose a risk to non-target organisms. If tank mixes are not allowed, this works against the recent findings that mixing two or more mechanisms of actions can reduce resistance risk by as much as 83%. If EPA follows through, every re-registration will prohibit the mixing of pesticides in the tank. Diquat and endothall will be the next two aquatic-registered herbicides up for re-registration.

Van Wychen followed with discussion on herbicide Resistance Management Plans. EPA released a notice on label rates. APMS may be asked to submit a letter to EPA outlining the differences between crop management and aquatic plant management in regards to herbicide rates (maximum rates vs. best effective/selective rates) when controlling aquatic plants. One set of BMPs will not work for crop and aquatic herbicide uses.

Van Wychen provided other updates on Corps of Engineers APCRP funding, the definition of Waters of the U.S. (WOTUS) and the NPDES fix bill. Little change has occurred and no Board action was required for these issues. Jamie Reaser has been appointed as Director of the Invasive Species Advisory Committee. Lee Van Wychen will co-chair the National Invasive Species Awareness Week activities with Scott Cameron, scheduled for the last week of February, 2017.

Cody Gray motioned the Board to accept the Committee and Special Representative Reports. Jeremy Slade seconded the motion. The motion passed without dissenting vote.

Old Business:

1. Board Approval - 2016 Graduate Student Research Grant (GSRG)

John Madsen reviewed the committee members (judges) and ranking criteria for recommending the 2016 GSRG. Criteria include: is the proposed research worthy of the grant; rank the entries; return to judges to confirm rankings; recommend awarding the GSRG to the highest ranked proposal. Five proposals were received. The highest ranked proposal, and therefore the recommended recipient of the 2016 GSRG, was submitted by Dr. Chris Mudge of LSU.

John Madsen motioned the Board to accept the review committee proposal to award the 2016 APMS Graduate Student Research Grant to Chris Mudge of LSU. The proposal title is: Exploring alternative giant salvinia (Salvinia molesta D.S. Mitchell) management strategies. John Rodgers seconded the motion. The motion passed without dissenting vote.

2. Extend the APMS Secretary Stipend

The Board approved a trial \$10,000 annual stipend for the APMS Secretary to complete duties of the Society as outlined in the Operating Manual. The trial period is scheduled to end August 31, 2016. Discussion on extending the Secretary stipend for an additional period.

Vernon Vandiver motioned the Board to extend the Secretary Stipend of \$10,000 per year for three more years to coincide with the next Secretary term (July 2016 – July 2019). Ryan Thum seconded the motion. The motion passed without dissenting vote.

3. Special Graduate Student Research Grant

The APMS GSRG is awarded every other year during even numbered years, provided adequate funding and appropriate proposals are received. The “regularly scheduled” GSRG is funded on a 50/50 basis with APMS providing 50% and the collective seven Regional Chapters providing the remaining 50%. At the 2016 Midyear BOD meeting, discussion ensued that if APMS funding was available, there was an urgent need to fund research, and there was an entity or group willing to provide at least half of the funding, then APMS would consider funding an additional GSRG outside of the “regularly scheduled” cycle. The Regional Chapters would not be asked to contribute to this special GSRG – their participation would be strictly voluntary.

John Madsen was tasked at the Midyear BOD meeting to draft a protocol to consider a special GSRG, to identify a current issue worthy of GSRG consideration, and to explore interest in entities funding this project. Starry stonewort research and management options, particularly in the Northeast and Midwestern regions was identified for consideration of the special GSRG.

Madsen provided an RFP and protocol for the starry stonewort GSRG. Originally APMS proposed funding \$10,000 per year toward the GSRG and the Northeast and Midwest Chapters would provide \$5,000 each for two years to fund a project. In the meantime, three companies, Applied Biochemists-Lonza, UPI, and SePRO expressed interest in funding the project at the \$5,000 level per year along with Midwest and (potentially) Northeast APMS each at \$5,000 per year. There was extensive discussion regarding the following motion:

John Madsen motioned that the APMS Board of Directors approve funding the 2017 RFP specifically on starry stonewort at the level of \$5,000 per year for two years, and act as the coordinating body for the RFP between the regional chapters and the companies that are contributing. APMS will not release the 2017 RFP until at least \$20,000 per year for two years of funding is committed by all of the partners. We (APMS) will further acknowledge the support of all regional chapters and companies that support this RFP in the RFP release and on the APMS webpage. Ryan Wersal seconded the motion. The motion passed without dissenting vote.

4. APMS Treasury Account Summary

Schardt provided a report on APMS account balances, where APMS spends funds, income sources, and amount of funding that needs to be held in reserve for Society sustainability. These issues need to be considered at January 2017 Strategic Planning.

5. Overhead Charges for GSRG

Currently APMS stipulates that recipients of the GSRG cannot charge overhead. Universities are increasingly requiring an overhead charge or the university will not accept the grant. Ferrell mentioned that universities must apply some level of indirect costs to pay for researcher infrastructure. The Board does not want to exclude a university from applying for the GSRG, but wants to keep the indirect cost at a reasonable level.

Mark Heilman motioned the Board to approve flexibility to negotiate overhead and indirect costs associated with the Graduate Student Research Grant. Cody Gray seconded the motion. The motion passed without dissenting vote.

New Business:

1. Sponsorship and APMS Accounts

Cody Gray led discussion regarding the upcoming luncheon with APMS Annual Meeting Sponsors (Monday following the Sunday pre-conference BOD meeting). A key topic of discussion with Sponsors is transparency of APMS available funding, particularly, should APMS build an Endowment Account (with Sponsorship funding) that is self-sustaining, or spend funds down to a low level each year. Gray suggests two members from each Sponsor to attend the luncheon.

Another topic that will be addressed is signage for sponsorship of individual events at the Annual Meeting. At the 2016 conference, a sign will be posted at each event listing all the Annual Meeting Sponsors by sponsorship level.

2. Florida Algae Issue

John Rodgers led discussion on the recent harmful algae blooms growing in Florida. There does not seem to be much accurate information on the causes, the types of algae involved, or meaningful steps to manage the problem. Rob Richardson proposed sending a letter from the APMS management perspective – what are the problems, what are the dimensions of the problems, and how can they be attacked. There was also discussion regarding drafting a press release on the algae issue, as well as funding CAST to prepare a Commentary Paper on harmful

algae blooms. John Rodgers agreed to draft the press release. A White Paper or Commentary Paper would provide more in-depth or substantive information on dealing with harmful algae blooms.

3. Future of the Journal of Aquatic Plant Management

Jay Ferrell agreed to discuss the future of the JAPM with Publication Committee Members. What do we want the Journal to look like in the next 5-10 years?

4. Strategic Planning

The meeting concluded with discussion on who to invite, or from whom to solicit input for Strategic Planning. Past Presidents and Sustaining Members were suggested as interested persons.

Cody Gray motioned the Board to adjourn. Dick Pinagel seconded the motion. The motion passed without dissenting vote.

The Board meeting adjourned at 3:00 p.m.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Annual Business Meeting

July 18, 2016

Amway Grand Plaza Hotel

Grand Rapids, Michigan

The Annual Business Meeting of the Aquatic Plant Management Society, Inc. was held on Monday, July 18, 2016. President Rob Richardson called the meeting to order at 4:47 p.m.

MINUTES

The Minutes of the 2015 Annual Business Meeting held in Myrtle Beach on July 13, 2015, as well as Minutes from the previous ten years were available online during the conference for review and consideration by the general membership. There was no discussion regarding these Minutes.

PRESIDENT'S REPORT

President Richardson welcomed delegates to the 56th Annual Meeting of the Aquatic Plant Management Society. Richardson informed the membership that Strategic Planning would take place in Daytona Beach in January 2017, and solicited comments from the membership regarding topics to address.

TREASURER'S REPORT

Treasurer Jeremy Slade summarized the account balances. As of July 6, 2016, the General Account had a balance of \$311,636.40 with \$88,134.33 in checking and \$223,502.07 (as of 6-30-16) in general investments. The Education and Outreach Account had a balance of \$180,060.30 with \$28,208.88 in checking and \$151,851.42 (as of 6-30-16) in investments. The combined assets for the APMS total \$491,696.70. Slade informed that \$180,000 in the General Account is held in reserve for emergency use.

Slade referred to the favorable audit report conducted by Winston, Williams, Creech, Evans and Company, LLP. The cost of the audit was \$5,800. Slade provided the following attendance numbers for the 2016 Annual Meeting, as of Monday afternoon – the numbers may increase by the end of the meeting:

103	registered delegates
18	guests
21	students
23	exhibitors
6	sponsors
34	new APMS members

SECRETARY'S REPORT

The Secretary also keeps track of membership after dues are paid. Annual Membership is fluid, but has declined from about 300 during the past few years to 279 as of the 2016 Annual Meeting. Schardt encouraged members to access and edit their contact information on the APMS website as most notifications are now sent via email or postings on the website. Schardt also solicited articles and current event topics from the membership for the Newsletter.

EDITOR'S REPORT

Editor Jason Ferrell advised the Membership that Journal of Aquatic Plant Management (JAPM) remains on time with the July 2016 issue already shipped. Ferrell informed that average number of Journal article submissions is usually between 40-50. That number dropped to 25 in 2015, but submissions seem to be rebounding for 2016. Ferrell thanked the Associate Editors for their diligent and expeditious review of articles to keep the Journal on time.

Lee Turnage motioned to accept the Officer Reports. Ray Valley seconded the motion. The motion was approved without dissenting vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: Chair Mike Netherland encouraged all members to attend the Awards Banquet on July 15 to congratulate the many award recipients that will be recognized this year.

Bylaws and Resolutions Committee: Chair Vernon Vandiver reported a proposed change to the Bylaws, adding a Proposal Review Committee to screen and make recommendations to the Board for requests exceeding \$5,000. The proposed change was presented in the March and June Newsletters. Vandiver read the proposed change adding the Proposal Review Committee as number **12** and renumbering subsequent Committees in Article XIII:

12. Proposal Review Committee

This Committee shall be responsible for reviewing all proposals submitted to the Society equal to or in excess of \$5,000, excluding proposals for the Society's Graduate Student Research Grant. The Committee shall consist of the Immediate Past President, President Elect, Treasurer, one Director, and one member at-large. The Committee will be chaired by the Immediate Past President who will appoint the Director and member at-large. Upon review of each proposal, the Committee will submit a written recommendation with justification to the Board for final decision.

Upon reading the proposed change, President Richardson called for a motion to approve.

Cody Gray motioned to approve the proposed Bylaws revision (as written above). Mark Heilman seconded the motion. The motion passed without dissenting vote.

Education and Outreach Committee: Chair Jeff Schardt addressed updates on the website regarding two PowerPoint presentations on the website under Documents. These presentations

provide a history of APMS as well as information about the 2015 Annual Meeting. The presentations will be updated each year after the Annual Meeting to provide members with current info to read or present about the Society.

Schardt advised that APMS sponsored two teachers from Tennessee to attend Florida Plant Camp in June 2016 with the intent to return to Tennessee and provide instructional opportunities regarding aquatic plants and their management in cooperation with Brett Hartis with TVA. APMS also is funding the University of Florida to develop a DVD called National Silent Invaders. This is the basic information for teachers to develop invasive aquatic plant curricula and classroom activities. The original DVD was tuned to FL species. The National DVD provides examples from across the country.

Exhibits Committee: Chair Craig Aguillard thanked the APMS Exhibitors and Sponsors. Twenty-two Exhibitors and one non-profit entity are registered for the meeting.

Finance Committee: No report – covered under the Treasurer Report.

Legislative Committee: Chair John Madsen advised that Lee Van Wychen will provide the Washington update in his presentation on Tuesday. APMS helps support Van Wychen as a Member of the Weed Science Society of America.

Meeting Planning Committee: No report.

Membership Committee: Chair Mark Heilman reported that strategic planning for APMS will take place in January, 2017. Part of that process will be to address membership sustainability / growth. Heilman will email a survey questionnaire to APMS membership in early fall to gather information on Society direction.

Nominating Committee: Chair Cody Gray read the slate of Officer and Director Candidates recommended by the Nominating Committee and APMS Board for approval by the general Membership. The slate (listed below) was advertised in the APMS Newsletter 30 days prior to the Annual Business Meeting with candidate biographies to meet notification requirements.

Vice President	Craig Aguillard - Winfield
Editor	Jason Ferrell - University of Florida
Secretary	Jeff Schardt - Retired - Thomasville, GA
Director	Scott Nissen - Colorado State University
Director	Todd Olson - Aquatic Vegetation Control

President Richardson asked if there were additional nominations from the floor.

Ken Manuel motioned to close nominations from the floor and accept the Slate of Delegates as recommended by the Nominating Committee. George Seldon seconded the motion. The motion passed without dissenting vote.

Past President's Advisory Committee: Chair Cody Gray advised that the Past Presidents will meet Tuesday during a luncheon to address various topics. President Richardson will attend and report back to the Board during the Post-conference BOD Meeting.

Program Committee: No report.

Publications Committee: No additional report - covered during the Editor Report.

Regional Chapters Committee: No report.

Scholastic Endowment Committee: No report.

Strategic Planning Committee: No additional report. See Membership Report.

Student Affairs Committee: Chair Chris Mudge reported that 21 students will make presentations at the meeting (17 oral / 4 poster), representing six universities. APMS provides a student meet-and-greet social hour on Sunday as well as a luncheon on Tuesday with guest speakers to advise on careers. There will be a student tour after the meeting of the Annis Water Resource Institute at Grand Valley State University, and field trips to observe dune ecology and aquatic plant management activities in local lakes.

Website Committee: No report.

AERF: Representative Carlton Layne reported that his update will be provided during his Program presentation on Tuesday morning.

BASS: Representative Gerald Adrian reported that APMS and AERF have jointly sponsored a conservation award with BASS, providing funds for a local chapter project. In March 2016, a grant was given to the BASS Federation Nation of Virginia to establish shoreline vegetation on Clayton, Leesville, and Smith Lakes in VA. APMS and AERF jointly sponsored the Conservation Summit Luncheon at the Bassmasters Classic. Brett Hartis (TVA / APMS Board Member) provided a 30-minute presentation on aquatic plant management as related to fisheries at the luncheon.

CAST: Representative Joe Vassios reviewed recent publications as well as papers in development at CAST.

NALMS: No report.

RISE: No report.

Women of Aquatics: No report.

WSSA: Information about WSSA was covered during the President's Report. Lee Van Wychen will present additional information during his Program presentation on Tuesday.

Jeremy Slade motioned to accept the Committee and Special Representative Reports. Linda Nelson seconded the motion. The motion passed without dissenting vote.

Old Business: None.

New Business: None.

Mike Netherland motioned to adjourn the Annual Business Meeting. Craig Aguillard seconded the motion. The motion passed without dissenting vote.

The meeting adjourned at 5:30 p.m.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting

July 20, 2016

Amway Grand Plaza Hotel

Grand Rapids, Michigan

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Wednesday, July 20, 2016. President John Madsen called the meeting to order at 1:08 p.m.

Officers and Directors present at roll call were:

John Madsen, President
John Rodgers, President Elect
Craig Aguillard, Vice President
Rob Richardson, Immediate Past President
Jeremy Slade, Treasurer
Jeff Schardt, Secretary
Dick Pinagel, Director
Ryan Wersal, Director
Brett Hartis, Director
Ryan Thum, Director
Scott Nissen, Director
Todd Olson, Director

There were no Proxies.

Others in attendance during portions of the meeting:

Tommy Bowen, Meeting Planning Committee Chair
Paul Champion, National Institute of Water and Atmospheric Research, NZ
John Gardner, Finance Committee Chair
Dennis Layder, State Bank
Ken Manuel, Guest - former APMS President
Bill Torres, Meeting Manager
Vernon Vandiver, Bylaws Committee Chair

PRESIDENT'S REPORT

President Madsen outlined that he will emphasize work of committees, especially related to reviewing issues and making recommendations to the Board. Madsen will also attend as many Chapter meetings as possible, or ask other Officers to attend.

TREASURER'S REPORT

Treasurer Jeremy Slade reported that the current estimate for the 2016 Annual Meeting income is \$86,976.80. The various fund raising activities for student-related activities raised approximately \$5,880 with the income distribution listed in the table below. Slade thanked Sherry Whitaker for

handling Annual Meeting registration and made the following motion to secure her services for future years.

Jeremy Slade motioned the Board to cover travel expenses for Sherry Whitaker to coordinate registration at the 2017 Annual Meeting in Daytona Beach, FL. John Rodgers seconded the motion. The motion passed without dissenting vote.

Event	Funds Generated
Corn Hole	270
Raffle	3,575
Silent Auction	1,035
Total	\$5,880

Slade introduced Dennis Layder of the State Bank. State Bank handles APMS investment and checking accounts. A topic for 2017 strategic planning will be related to APMS finances. Layder advised that APMS is conservatively invested, roughly split 50:50 stocks:bonds. The General Account is roughly overweight in stocks and Scholastic is roughly underweighted in stocks. The economy is in a slow growth mode that may extend for the next several years – growth nationally may be ~1.8% (below 2%).

The best investment today seems to be in stocks that return 3-4% - not government / municipal bonds that are returning less than 3%, and less investment in mutual funds that are quite variable. Good investments in the next few years seems to be in large stable stocks that may generate ~5% in the current slow growth economy. Interest rates may go to ~2-3%. A recession is not as likely as an economy that may muddle along.

Considering the future, fund raising helps raise coffers, but does not provide sustainability for projects like the GSRG. It may be the time to look at companies that do business (sponsors, sustaining members, etc.) with APMS for donations, or members to leave a legacy.

There is a basic economic tension facing APMS. Some look at APMS Account totals of ~\$500,000) and say they may not provide additional financial support until APMS spends down that amount. Others think APMS needs an endowment account to fund student related projects. A trust document needs to be developed that outlines income and disbursements. With a trust document, changes can only be made through probate court. Generally speaking, to provide a \$20,000 per year GSRG would require a base principle of \$400, 000. A charitable trust may be a better route than a foundation. Both require filing a 990-tax form. The trust does not need a tax ID number, nor does it need a Board – the trust document provides the procedures.

SECRETARY’S REPORT

No report.

EDITOR'S REPORT

Immediate Past-President Rob Richardson presented the Editor Report. Editor Jay Ferrell met with Associate Editors and others attending the Annual Meeting and drafted the following points regarding the Journal of Aquatic Plant Management.

1. Post the most recent Journal issues on the Members Only section of the website so that members can access current research publications vs. waiting the two years for the issues to be open to all online viewers.
2. Contact Cambridge and develop a pro / con list for retaining or changing Journal publishers to see if a change may result in additional Society revenue. The contract with Allen Press extends for an additional two years.
3. Move forward with a research methods publication with a completion goal of February 2018. This would be a series of educational documents to standardize methodology related to aquatic plant management. For example: one chapter may address dye use to determine water flow.

Todd Olson motioned the Board to accept the Officer Reports. Ryan Wersal seconded the motion. The motion passed without dissention vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: No report.

Bylaws and Resolutions Committee: President Richardson was tasked at the 2016 pre-conference Board meeting to draft language to modify the Operating Manual, designating an alternate APMS Board member to authorize payments if the President cannot fulfil this duty. New federal policy does not allow some federal agency personnel, who may be in leadership positions of entities such as APMS, to authorize payments.

Rob Richardson motioned the Board to amend the Operating Manual as follows designating persons to authorize payments if the President cannot fulfil this duty. Todd Olson seconded the motion. The motion passed without dissenting vote.

Page 1, President. Item 4. (add to end) If the President is unable to approve payments, the Past President may be appointed by the board to do so.

Page 6, Treasurer. Item 4. (add to last sentence) or Past President if so appointed.

Education and Outreach Committee: No report.

Exhibits Committee: Craig Aguillard agreed to pass committee Chair responsibilities to Dean Jones and will assist in his first year as Chair. There were 22 Exhibitors. Sponsorship was roughly the same as last year. Aguillard will work with Jones to draft a document for the Midyear Board meeting that identifies benefits of the various levels of sponsorship.

Finance Committee: No report.

Legislative Committee: No report.

Meeting Planning Committee: Chair Tommy Bowen asked for comments to improve upon the meeting. There were only 11 attendees on the guest tour. Attendees enjoyed and were impressed with the tour. Several points related to the Annual Meeting are listed below:

- Torres advised that he will ensure that batteries are replaced in the microphone and projector remote control each morning and after lunch each day from now on to eliminate these interruptions.
- Relay to the audio-visual operator to toggle between standard and wide screen format or adjust the projector so information is not lost off the sides of the screen.
- Ensure that a high definition laptop computer is available on the podium for people with vision issues.
- Ensure session moderators properly introduce each speaker, with a minimum name, affiliation, and title of presentation.
- Provide name and affiliation of each award recipient at the banquet, especially for student presenter award winners including their University.
- Announce to not photograph individual slides from the screen during presentations. Please contact the author afterwards for information.
- Ensure that the Session Moderator or Presenter repeats any questions during the discussion period after each report.
- Perhaps create a White Paper that clarifies Annual Meeting events; why they are held, why they are supported by sponsors and registrations costs, and cost of each event.

Membership Committee: President Madsen asked the Board to send questions to Chair Mark Heilman and copy Madsen to include in the pre-strategic planning membership survey.

Nominating Committee: Chair Rob Richardson solicited names of candidates to fill Board openings for 2017. The Board is under-represented in the northeast and Midwest.

Past President's Advisory Committee: Chair Rob Richardson reported on the Past Presidents' and Sponsor Luncheon since they covered some similar topics. The sponsors wanted to see Annual Meeting registration costs cover the expense of the meeting. The Past Presidents had a different approach, suggesting no significant increase in registration costs other than to cover inflation.

The sponsors are pleased with the student initiatives provided by APMS at the meeting. The sponsors also agreed that APMS should build an endowment for the GSRG that would be self-supporting. Past Presidents had a similar opinion of building an education endowment. Sponsors did not indicate that APMS currently had too much money. They did want to see benefits increase with increased levels of sponsorship at the Annual Meeting.

Past Presidents at the Luncheon indicated they would like to be included in strategic planning if invited.

Program Committee: No report.

Publications Committee: No report.

Regional Chapters Committee: No report.

Scholastic Endowment Committee: There was discussion about bringing back the reverse raffle at the 2017 Annual Meeting. APMS went to the basket raffle for the previous two years as interest began to wane in the reverse raffle. There was little participation among the general attendees, focusing more toward major sponsors.

Strategic Planning Committee: No report.

Student Affairs Committee: There were 21 student presenters at the Annual Meeting.

Website Committee: No report.

AERF: No report.

BASS: No report.

CAST: No report.

NALMS: No report.

RISE: No report.

WSSA: No Report.

Rob Richardson motioned the Board to accept the Committee and Special Representative Reports. Brett Hartis seconded the motion. The motion passed without dissenting vote.

Old Business:

1. Upcoming Meeting Costs

Tommy Bowen was tasked with reporting Annual Meeting Costs for the next three years if APMS had to cancel the meeting but was still responsible for meeting venue costs. Costs are: 2017 - \$72,000; 2018 - \$65,000; 2019 - \$80,000. This would be in addition to refunding meeting registrations and Exhibitor fees if the Annual Meeting was cancelled.

New Business:

1. 15th International Symposium on Aquatic Plants

John Madsen introduced guest Paul Champion from the National Institute of Water and Atmospheric Research (NIWA), New Zealand. NIWA will host the 15th International Symposium on Aquatic Plants from February 18-23, 2018 in Queensland, NZ. This event has been held exclusively in Europe. The symposium is a joint effort, held approximately every three years, between the European Weed Science Society and the International Limnological Society. There will be four main themes: 1) biodiversity and monitoring, 2) invasives, 3) ecosystem response and ecology, and 4) restoration.

Rob Richardson motioned the Board to increase the contribution from the previously approved \$2,000 to up to \$5,000 in US dollars to support the 2018 International Symposium on Aquatic Plants in New Zealand. Scott Nissen seconded the motion. The motion passed without dissenting vote.

Discussion continued on the possible formation of an Australian APMS Chapter. There is a core group of about 35 or so in both Australia and New Zealand, as well as interest in Japan and China. The meeting would be held in alternating years in Australia and New Zealand.

2. Dates and time for 2017 Strategic Planning and the Midyear BOD Meeting.

The meeting will be held in Daytona Beach so the Board can review the Hilton Hotel with Meeting Planning personnel. Two full meeting days are required; for Strategic Planning and for the Midyear Board Meeting. WSSA is January 6-9. NEAPMS is January 9-11. Early February may have conflicts with the Daytona 500. Dates chosen are January 24 for Strategic Planning beginning at 8:00 am, and January 25 for the Board meeting, beginning at 8:00 am. Travel days are January 23 and January 26.

The Hilton has no rooms available for the week of January 23-25; however, the Shores Hotel about three miles farther south from the Hilton on A1A is available. Bill Torres will arrange a shuttle for Board members to tour the Hilton facilities.

3. Discussion on the 2020 Annual Meeting

The 2020 APMS Annual Meeting rotation is Texas. There has been previous discussion on holding the 2020 Annual Meeting outside the usual rotation; for example in Canada or Puerto Rico. The Meeting Planning Committee will provide prices for venues in San Antonio, TX, Puerto Rico, and Vancouver, BC Canada.

Jeff Schardt motioned the Board to adjourn to meeting. Todd Olson seconded the motion. The motion passed without dissenting vote.

The Board meeting adjourned at 4:15 p.m.

**Report of the President
John D. Madsen
APMS Winter Board of Directors Meeting
Daytona Beach, FL
January 25, 2017**

The Aquatic Plant Management Society is a volunteer-powered organization, which is its greatest strength, and simultaneously its greatest weakness. It is difficult for all of us to maintain a consistent amount of effort to advancing the society and the aquatic plant management discipline.

1. As President, I have participated in the WSSA Scientific Policy Committee discussions on NPDES, Herbicide Resistance Management regulation by US EPA, glyphosate toxicology, dicamba labeling, and potential label restrictions on atrazine. Not all of these are immediately important to aquatic plant management, but our fellow weed management disciplines are our allies in this field.
2. I have presented an APMS update to the MidSouth Aquatic Plant Management Society, and delegated the update for SCAPMS (thanks, Rob) and TAPMS (thanks, Jeremy). As commonly happens, we were not on the FAPMS agenda. I suggest future presidents contact FAPMS in the spring about being on the agenda, unless they just do not want us. I will be updating NEAPMS, MAPMS and WAPMS this spring.
3. Although not specifically a presidential duty, I sent out the RFP for the 2017 APMS Graduate Student Research Grant on starry stonewort, just before the NEAPMS annual meeting.
4. I am planning on reviewing the mechanics of how committees generate reports and proposals for board action. All too often, the board acts as a committee of the whole rather than acting on proposals from committees. We are at a difficult size for moving to the next level, but I think getting more engagement from committees will help us move forward, and will also provide a clearer path for all members to suggest activities and actions. I am planning to have a system of committee reports to the board at the annual meeting which will include proposed actions, to encourage committees to use the resources of the society to further its goals. I plan to model it after the system used by WSSA.
5. While I don't want to overlook any member who is contributing, I do want to commend a few individuals who have continued to do outstanding work for the society.
 - a. Jeff Schardt provides far more service to the society than the small amount he is paid. I have relied on Jeff to remind me what needs to be done next – thanks, Jeff.
 - b. Jeremy Slade is doing an outstanding job as Treasurer.
 - c. Journal Editor Jay Ferrell is providing great direction to the journal, and I commend his efforts to keep the journal on schedule and provide a high quality product.
 - d. Tommy Bowen and Bill Torres are a great team on site selection and preparation. I greatly valued their hard work and attention to detail for our meeting last summer, and for the winter board meeting.

6. We are six months out from our annual meeting in July – let's all work together to ensure that is a great meeting at a great venue.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "John Madsen".

John Madsen

January 13, 2017

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

From: Jeremy Slade

Subject: Report of the Treasurer

General and Scholastic Accounts.

Enclosure 1 is a summary of the General and Scholastic Checking and Investment Accounts. Totals are as of 1/12/2017.

Investment Portfolio Performance: See Finance Committee Report.

2016 Income and Expenses.

Enclosure 2 is a summary of income and expenses for the period January 1, 2016 through December 31, 2016.

2017 Budget.

Enclosure 3 is a preliminary budget for the period of January 1, 2017 through December 31, 2017 which estimates a net income (deficit) of -\$37,525.

Audit and Federal Return.

All APMS financial records and related information will be made available to Winston, Williams, Creech, Evans, & Company, LLP to conduct an audit of our financial statements as of December 31, 2016. In addition, they will prepare our federal information return for the year ended December 31, 2016. The estimated fees for these services should not exceed \$6,000.00.

Accounts Payable of Interest:

Louisiana State University (Year 1) - \$20,000*

North Carolina State University (Year 2) - \$20,000*

Starry Stonewart GSRG (2018 and 2019) - \$10,000 total

CAST renewal- \$1,500

AERF renewal- \$1,000

WSSA 2016 & 2017- \$5278 each

Website Administration- \$750/quarter

Plant Camp request- \$1,000*

National Silent Invaders video- \$11,517.80*

Strategic Planning facilitator- \$3,000

BASS conservation award- \$1,500*

Allen Press- Jan 2017 volume of the JAPM Approx. \$5K

International Conf. on AIS- Requested \$5K

2018 International Plant Symposium- Requested \$2-5K

*Total Scholastic: \$54,017.80 (with sponsorships \$60K); Currently holds approx. \$31K

Total General: \$24,000

Overall Total: 78,018

3 Enclosures

The Aquatic Plant Management Society, Inc.

General and Scholastic Accounts

December 31, 2016

General and Scholastic Accounts

General Accounts

Checking (general op) \$37,942.61 (1/12/17)

Investment (emergency) \$226,044.17

Total General Accounts \$263,986.78

Scholastic Accounts

Checking (discretionary) \$30,808.88 (1/12/17)

Investment (disc. subaccount) \$156,816.20

Total Scholastic Accounts \$187,625.08

Total General and Scholastic Accounts \$451,611.86

The Aquatic Plant Management Society, Inc.

Income and Expense Report

January through December 2016

Jan - Dec 16

Ordinary Income/Expense	
Income	
Annual Meeting Income	
Contributions	45,360.00
Delegate 1-Day Registration	760.00
Delegate Pre-Registration	16,500.00
Delegate Registration	6,930.00
Event Tickets	455.00
Exhibit Fees	15,400.00
Guest Pre-Registration	1,696.80
Guest Registration	410.00
Guest Tour	120.00
Student Registration	150.00
Total Annual Meeting Income	87,781.80
Journal Income	
Page Fees	8,070.00
Subscriptions	6,000.00
Total Journal Income	14,070.00
Membership Income	
Individual	12,900.00
Student	200.00
Sustaining	12,000.00
Total Membership Income	25,100.00
Miscellaneous Income	2.00
Scholastic Endowment Income	
Contributions	150.00
Graduate Assistantship	10,000.00
Raffle & Silent Auction	5,380.00
Total Scholastic Endowment Income	15,530.00
Total Income	142,483.80
Expense	
American Express Annual Fee	140.00
Annual Meeting Expense	
Audio Visual Equipment	3,058.69
Food & Beverage	41,040.55
Guest Tour	1,660.00
Meeting Planner	1,650.00
Poster Boards	351.48
Program	1,145.00
Signs	1,182.00
Student Guest Rooms	6,009.90
Student Tour	1,644.99

The Aquatic Plant Management Society, Inc. **Income and Expense Report** January through December 2016

	Jan - Dec 16
Travel Meeting Planner	486.20
Annual Meeting Expense - Other	-924.60
Total Annual Meeting Expense	57,304.21
Awards	
Plaques/Certificates	1,377.00
Poster Award	100.00
Total Awards	1,477.00
Bank Service Charges	164.01
Corporation Annual Report Fee	61.25
Credit Card Merchant Processing	
Card Fees	4,961.70
Credit Card Merchant Processing - Other	296.47
Total Credit Card Merchant Processing	5,258.17
Dues	
AERF	1,000.00
CAST	1,500.00
RISE	500.00
Total Dues	3,000.00
Education/Outreach	3,752.13
Insurance	
Board of Dir. & Gen. Liability	818.00
Commercial Bond	221.00
General Liability	425.00
Total Insurance	1,464.00
Interest Expense	
Loan Interest	22,306.89
Total Interest Expense	22,306.89
Journal Expense	
Editor Stipend	2,000.00
Manuscripts	12,880.45
Printing & Postage	193.43
Total Journal Expense	15,073.88
Meeting Planner	
Meeting 3 years out	1,573.55
Total Meeting Planner	1,573.55
Miscellaneous	225.25

The Aquatic Plant Management Society, Inc. **Income and Expense Report** January through December 2016

	Jan - Dec 16
Professional Fees	
Accounting	5,800.00
Total Professional Fees	5,800.00
Scholastic Endowment Expense	
Graduate Assistantship	40,000.00
Student Books	1,509.27
Student Poster Award	500.00
Student Presentation Award	800.00
Total Scholastic Endowment Expense	42,809.27
Secretary Stipend	10,000.00
Supplies	124.47
Travel	
Board Member Travel to Meetings	1,004.86
President's	1,822.83
Registration Booth Staff	795.70
Student Tour	197.20
Total Travel	3,820.59
Website	
Administration	4,000.00
Total Website	4,000.00
Winter Board Meeting	
Audio Visual Equipment	76.80
BOD Hotel Rooms	959.10
Meals	1,557.99
Travel	111.50
Total Winter Board Meeting	2,705.39
Total Expense	181,060.06
Net Ordinary Income	-38,576.26
Other Income/Expense	
Other Income	
Interest Income	
General	15,635.74

The Aquatic Plant Management Society, Inc.
Income and Expense Report
January through December 2016

	Jan - Dec 16
Scholastic	7,893.90
Total Interest Income	23,529.64
Total Other Income	23,529.64
Net Other Income	23,529.64
Net Income	-15,046.62

The Aquatic Plant Management Society, Inc.
Preliminary Budget
January through December 2017

Income/Expense	
Income	
Annual Meeting Income	115,000.00
Journal Income	17,000.00
Membership Income	24,000.00
Scholastic Endowment Income	18,000.00
Total Income	174,000.00
Expense	
Annual Meeting Expense	90,000.00
Awards	1,400.00
Contributions	700.00
Dues	8,300.00
Fees	5,400.00
Insurance	2,000.00
Journal Expense	20,000.00
Postage and Shipping	250.00
Printing and Reproduction	125.00
Professional Fees*	16,000.00
Scholastic Endowment Expense	55,000.00
Supplies	350.00
Travel	4,500.00
Website	4,000.00
Winter Board Meeting	3,500.00
Total Expense	211,525.00
Net Income	-37,525.00

Aquatic Plant Management Society
Board of Directors Meeting
January 25, 2017
Secretary Report

Submitted by: Jeffrey D. Schardt

The following tasks have been completed since the Grand Rapids Post-conference Board Meeting.

PLMA Donations:

Thank-you letters were sent on December 20, 2016 to 7 members of the Professional Lake Management Alliance (PLMA) for their financial contributions to the APMS education/outreach and student scholarship initiatives. The letter addressed APMS programs that education and scholarship contributions support, and the contributions to the University of Florida to further the Plant Camp and Lakeville initiatives. A thank-you letter was sent on January 14, 2017 to Richard DeJonghe of Applied Biochemists-Lonza for continued support through the PLMA Program. PLMA members contributed \$750 to APMS in 2016 for a total of more than \$40,600 since the inception of the program.

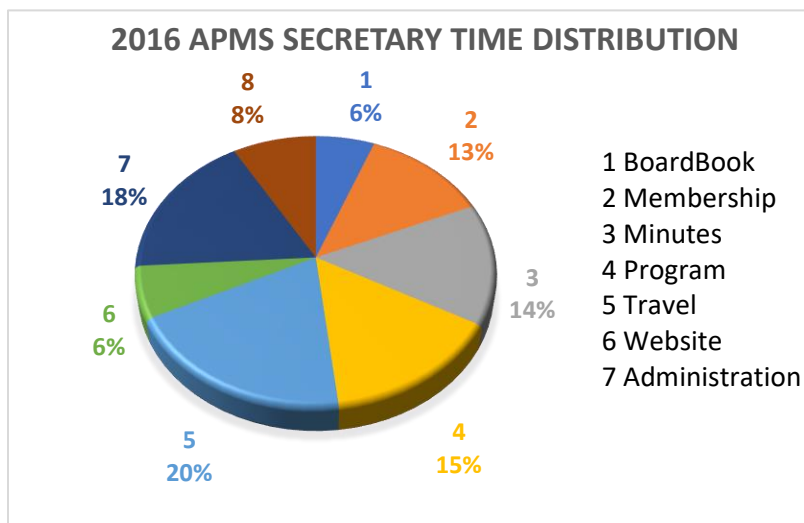
Membership Invoices: Invoices and information on APMS achievements for 2016 were emailed to Sustaining Members on January 3, 2017. We have built Sustaining Membership up to 23 from a low of 15 just a few years ago. APMS welcomed a new Sustaining Member in 2016, Maxunitech, Inc., headquartered in the P.R. China specializing in research, development, production, and sales of agrochemicals. In addition to incentives of regular membership, APMS recognizes Sustaining Members in the APMS Newsletter, links Sustaining Member companies with the APMS webpage, and recognizes Sustaining Members in the Annual Meeting Program.

Dues notifications for Active and Student Members were emailed on January 4 with assistance from the Website Committee and APEX. We sent notifications to members who had not renewed as far back as 2013. Dues payments are now being made online and received by the Treasurer who forwards to the Secretary for updating on the Membership database. Ninety members had renewed as of January 13.

Secretary Duties and Time

Allocations:

The graph to the right and table below provide a breakdown of Secretary duties and approximate time in hours allocated to these tasks during 2016. I spent about 392 hours or just under 20% of a full-time position performing APMS Secretarial duties. A monthly breakdown by task is available upon request.



Brdbook	Mbrshp	Minutes	Progrm	Subscrip	Travel	Errand	Website	Admin	Newsltr	Total
23.00	40.50	57.00	59.50	9.00	77.00	4.75	24.50	64.50	32.75	392.50

2016 Expenditures: As outlined in the APMS Operating Manual, I have included a breakdown of AMEX card expenditures for 2016 for the Office of the Secretary. Also below is the budget estimating expenditures for the Office of the Secretary for 2017.

Date	Shipping / Postage	Travel	Supplies	Amount
01/08/16	Mail Journals			5.75
01/13/16	Mail New Member Journal			2.30
01/25/16		Cab - GR Airport/hotel		40.00
01/27/16		Jax. Airport parking		24.00
01/27/16		Gas - airport - 348 mi		22.50
01/28/16	Mail Journals			4.60
03/03/16	Mail Journals			12.82
03/25/16	Mail Journal Overseas			7.90
04/13/16	Mail New Member Journal			2.20
05/17/16	Mail New Member Journals			4.40
05/28/16	Mail New Member Journals			4.40
06/10/16	Mail New Member Journals			8.80
07/13/16	Mail New Member Journals			46.85
07/14/16		Gas - travel Annl. Mtg		20.50
07/15/16		Gas - travel Annl. Mtg		23.50
07/16/16		Gas - travel Annl. Mtg		30.00
07/20/16		Post-conf BOD dinner		180.31
07/21/16		Parking - Annl. Mtg.		72.50
08/10/16	Mail 8 Journals			51.60
08/12/16			Journal Envelopes	29.41
08/12/16	Mail 8 Journals - Students			19.28
09/06/16	Replace Journal - EBSCO			2.41
09/23/16	Replace Journal - EGAT			13.32
12/05/16	New Member Journal			2.41
12/12/16	New Member Journal			8.85
12/20/16	Stamps - PLMA Letters			9.40
	Total			650.01

Proposed Budget for 2017 - Office of the Secretary

<u>Item</u>	<u>Estimated Cost</u>
Shipping and Mailing:	
Journal claims, invoices, letters, meeting materials, stamps, etc.	\$300
Office Supplies:	
BOD and annual meeting supplies, Envelopes, printer ink	\$75
Secretary Travel Expenses:	
hotel, meals, gasoline	\$1,400
TOTAL	\$1,77

Travel Breakdown

Expense	Mid-year	Annual
hotel	450	750
travel	50	150
Total	\$500	\$900

Editor Report – Journal of Aquatic Plant Management
January 2017 Board Meeting
Jason Ferrell

JAPM 55:1 (Jan 2017) is fully edited and with the printer. It contains 8 manuscripts (4 papers and 4 notes).

Total number of submissions:

2012 – 48

2013 – 52

2014 – 50

2015 – 26

2016 – 34

Open access:

Open access has been reasonably successful. No articles in 2016:2 chose open access, but two of the 8 articles in 2017:1 did agree to pay \$500 each.

Change of publisher

I spoke with Cambridge Press (current publisher for all WSSA journals) and they did not feel we were a good fit for their current portfolio.

I am still in conversation with Taylor and Francis and they appear to be interested in JAPM. We have filled out a detailed questionnaire about our society and journal and we are waiting to hear back from them.

Article Access

We have recently started offering PDF files of the most recent JAPM articles (up to 2 years old) in the Members Only section. We feel that this will be a benefit to membership while not detracting from the value of membership.

Outstanding JAPM article award

The AEs will soon be surveyed to select papers for consideration.

Aquatic Plant Management Society
Board of Directors Meeting
January 25, 2017
Shores Hotel, Daytona Beach, Florida

Education and Outreach Committee Report

Submitted by: Jeff Schardt

Other Committee members: Brett Hartis, Karen Brown, Mike Netherland

APMS Annual Meeting Organization and Rationale – White Paper

President Madsen suggested at the July 2016 Board meeting that an Annual Meeting White Paper may need to be developed to inform the membership about the complexity involved in planning the Annual Meeting and services provided to the membership who attend. A short document has been drafted (attached) for reference in the Operating Manual and posting on the web site. The document reviews the planning time table for selecting and contracting for the meeting venue, and identifies and describes value to the members for each meeting event. The Program is described in the attached White Paper, but the time line and effort to produce the Program is not included.

Board Action: Comment on content; decision to include in OP Manual and web site; decide whether to add Program development timetable.

APMS PowerPoint

The APMS PowerPoint presentation was updated with info and pictures from the 2016 Annual Meeting. It is posted on the APMS web site under Resources / Marketing Material. The PowerPoint presentation can be used by Board members talking about APMS at conferences. It can also be accessed by others looking for historical and current info about APMS.

Board Action: None

Florida Plant Camp

Florida Plant Camp will be held at the University of Florida and various field sites in central Florida on June 12-16, 2017. More than 300 teachers have participated in Plant Camp since 2001, and have reached nearly 80,000 students. APMS has been a long-time financial sponsor of FL Plant Camp providing funds to develop classroom criteria and materials as well as meals during workshop field trips. Florida Plant Camp organizers have requested \$1,000 in APMS sponsorship again for 2017 (attached).

Recommendation: Approve \$1,000 to sponsor Florida Plant Camp 2017

APMS has supported travel expenses for six instructors (from North and South Carolina, Alabama, and Tennessee) to attend Plant Camp and take information back to their schools for further development in their regions. Brett Hartis worked with two Tennessee Plant Camp attendees to develop a Plant Camp workshop for 21 educators and three government employees in late 2016. Brett has expressed interest in attending FL Plant Camp in 2017 to expand the Plant Camp within the TVA region.

Recommendation: Approve travel expenses for Brett Hartis to attend FL Plant Camp 2017

National Silent Invaders Status Video

APMS authorized payment of \$11,517.80 to the University of Florida upon completing an updated version of the Silent Invaders video from a Florida perspective, addressing invasive plants nationwide. The video references APMS sponsorship and will be linked between the UF and APMS web sites. APMS will also receive a hard copy version to post directly on the APMS web site. The video will allow instructors to introduce students across the country to invasive aquatic plants and their management, without the specific Florida reference in the original Silent Invaders video. UF will notify teacher list serves across the country to raise awareness of the video. The video was presented in draft form to teachers at the Tennessee Plant Camp and met with favorable review.

Board Action: Authorize APMS payment of \$11,517.80 to the UF for completing the Silent Invaders video.

APMS Conference Display

APMS has a table top display to set up with Journal copies and membership brochures as incentive to join APMS. The display does not get much use, perhaps because of its size and expense to ship to conferences. The NALMS exhibit logistics company wanted ~\$1,500 round trip to ship and handle the display at the 2016 NALMS conference in Canada. We have suggested a smaller version of the display, but have not yet acted to develop it. For example, a similar message could be presented on two pop up banner displays and transported in airline baggage with the presenter.

Board Action: The current APMS display will be set up at the BOD meeting. Content update comments and replacement pictures will be solicited from the Board.

APMS Annual Meeting Organization and Rationale

APMS Annual Meeting

The Aquatic Plant Management Society (APMS) organized as the Hyacinth Control Society in 1961 as a forum to exchange information related to water hyacinth and its management in Florida waters. The Society has since evolved to include aquatic and wetland plant species found across the country and internationally. Each July, APMS convenes an Annual Meeting with a focus on current research addressing topics like plant identification and physiology, control techniques, and management strategies from a national perspective. Seven Regional APMS Chapters have formed through the years. Each holds an annual conference that focuses on local operational issues and product updates.

Note: The APMS Board has surveyed membership on several occasions regarding the best time of year to hold the Annual Meeting to accommodate the greatest number of members. Polls have not indicated specific preferences for a meeting month, with even percentages of preferences to meet throughout the year. The July meeting time has the fewest conflicts with other aquatic or weed management society meetings. July is also convenient for families to attend the Annual Meeting during school summer breaks.

The Annual Meeting involves considerable planning and scheduling to provide maximum learning and networking value to attendees. Following are steps toward organizing the Annual Meeting and a brief explanation of meeting events. APMS members are encouraged to review this information to better understand the reasoning behind meeting locations and the opportunities available at the Annual Meeting. Members are also encouraged to provide feedback to improve upon the Meeting. Please send your questions or suggestions to the APMS Secretary or the Meeting Planning Committee Chair.

Site Selection and Negotiation

The Meeting Planning Committee is the most active of the APMS 18 Standing Committees. This Committee is responsible for locating Annual Meeting sites and ensuring smooth operation during the meeting. APMS contracts with a Meeting Manager (Bill Torres – Florida Event Planning and Meeting Service) to solicit and assess meeting site venues, negotiate guest room, meal and meeting event costs, provide audio visual equipment, coordinate events during the meeting, and act as a liaison between meeting attendees and hotel staff.

The Annual Meeting site is on a seven-year rotational schedule to coincide with each of the APMS Regional Chapters. Delegates generally come from as many as 30-35 states and several foreign countries. The meeting is held in a different Region each year to highlight local aquatic plant management issues and to offer holding a joint meeting with the local Chapter if that suits their schedule or needs. The Meeting Manager solicits proposals from hotels in locations suggested by the APMS or Regional Chapter Board. Key site considerations include:

- guest room price,

- hotel availability during the 2nd-3rd week of July,
- convenience to transportation, especially airports and shuttle service,
- meeting, exhibit, and banquet hall size and proximity to hotel guest rooms,
- meal and beverage costs for the various functions during the meeting,
- walking distance to restaurants, parks, museums, and nightlife

The Meeting Planning Committee evaluates proposals and creates a list of 3-4 sites for Board consideration and approval for the Meeting Manager to conduct an onsite visit. During the onsite visit, the Meeting Manager ensures the hotel meets APMS requirements and negotiates the best possible price for the above listed parameters. This process is conducted up to three years prior to the Annual Meeting date scheduled for that Region to negotiate the lowest prices and to get a better selection of preferred meeting dates.

Note: APMS must guarantee that a minimum number of guest rooms will be occupied during the Annual Meeting to receive the negotiated lowest price and hotel concessions such as complimentary rooms and reduced food and beverage costs. While Annual Meeting attendees may find a lower room price at a nearby hotel, off-site lodging will not provide the meeting and event services available at the host hotel. Additionally, APMS must pay for the agreed upon number of guest rooms even if they are not occupied, and would lose negotiated concessions if the room minimum is not met.

Meeting Planning Committee (MPC) Venue Selection Timeline for Annual Meeting

- Jul - MPC Chair seeks suggestions for venues in the next region at the post-Annual Meeting BOD meeting
- Sep/Oct - Meeting Manager requests proposals from venues in selected host cities
- Nov/Dec - MPC reviews venue proposals provided by Meeting Manager and selects best options
- Jan - MPC recommends venues at Midyear BOD meeting for on-site visits and requests travel cost approval for Meeting Manager
- Mar/Apr - Meeting Manager visits selected venues and recommends top choices to MPC
- Apr/May - MPC recommends Annual Meeting location to APMS President for email vote by the Board

Meeting Costs and Sponsorship

The APMS Annual Meeting generally runs from Sunday evening through noon on Wednesday. The meeting is occasionally extended through 5:00 pm on Wednesday when important local issues generate additional interest and discussion. The APMS Annual Meeting is the most important and most expensive educational event provided by the Society. It is also an important income source for the Society to pay annual operating costs and fund education and outreach initiatives like the [Graduate Student Research Grant](#) and Plant Camps. The average cost for the

seven previous Annual Meetings is about \$93,000. This cost includes about \$12,000 in student incentives (described below) at the Annual Meeting.

Note: There are also pre-conference and post-conference Board of Directors meetings associated with the Annual Meeting. The Board meets on Sunday to address last-minute issues prior to the Annual Meeting along with usual business of the Society. The Board meets again immediately after the Annual Meeting to introduce new Board members and to review all facets of the Annual Meeting to improve upon future conferences.

The Annual Meeting is an education and outreach event. Therefore, the Board works to keep meeting registration as low as possible to increase attendance. This is especially important to retain government employees who have been facing increasing difficulty obtaining conference travel approval. With an average attendance of about 200 for the previous seven meetings, funding the meeting solely through registration costs would be cost-prohibitive to cover all expenses, let alone annual operation costs for the Society. Therefore, APMS solicits donations from Sponsors whose generous contributions provide about half of these necessary funds. An approximate breakdown of Annual Meeting income and expense for the seven previous Annual Meetings is listed below:

		Funding Source, Amount & Percentage for Meeting						Meeting Cost Analysis		
Year	Venue	Sponsor	%	Exhibitor	%	Registration	%	Income	Expense	Net
2016	Grand Rapids	45,360	52	15,400	17	27,021	31	87,781	64,406	23,375
2015	Myrtle Beach	47,712	43	18,200	16	45,620	41	111,532	121,644	-10,112
2014	Savannah	49,739	47	19,600	19	36,495	34	105,834	95,588	10,246
2013	San Antonio	52,472	48	18,900	18	37,180	34	108,552	85,598	22,954
2012	Salt Lake City	50,750	52	17,500	18	29,540	30	97,790	81,839	15,951
2011	Baltimore	59,652	55	16,800	15	32,860	30	109,312	97,009	12,303
2010	Bonita Springs	74,263	54	15,505	11	48,290	35	138,058	107,099	30,959
	Average	\$54,278	50	\$17,415	16	\$36,715	34	\$110,926	\$93,312	\$15,097

Note: Annual Meeting registration costs have been held at \$275 for early registration for the previous eight years to encourage attendance. The lower rate is also an incentive to register early so the Meeting Planning Committee can schedule appropriate meeting room sizes and seating, and prepare for sufficient food and beverage for each of the Annual Meeting events. Late or onsite registration increases to \$330.

Student Incentives at the APMS Annual Meeting

Education and outreach, especially student initiatives, are among the most important core values of the APMS. Students represent research ingenuity and future leadership of aquatic plant management. Several student incentives are available at the APMS Annual Meeting to: broaden university participation, provide opportunities to organize and present information in a public setting, interact with their peers, and observe first-hand research and operations from across the

country. Following is a list of incentives for students who compete in the oral and poster presentations at the Annual Meeting:

- registration cost is waived
- one-year free membership to APMS
- lodging provided by APMS (share two per room)
- choice of an environmental science-related text book up to \$100
- meet-and-greet reception prior to the Sunday Presidents' Reception (open to all students)
- network with APMS guest speakers at the Student Luncheon (open to all students)
- cash awards for 1st (\$300), 2nd (\$200), and 3rd (\$100) place oral and poster presentations
- post-conference tour of local research facilities / management areas (open to all students)
- networking with potential employers (all students)

Presidents' Reception – Sunday - 7:00 – 10:00 pm

In addition to education, outreach, and business events for delegates, APMS schedules meeting site venues and events for families to enjoy the surroundings during the Annual Meeting. The Presidents' Reception begins the week's activities on Sunday evening before the Program commences on Monday morning. Heavy hors d'oeuvres and beverages are free to all registered delegates and guests in a setting selected to encourage attendees to stay and get reacquainted with friends and meet new colleagues. Local musicians are sometimes solicited to further enhance the social experience.

Guest Tour – Monday - 10:00 am – 3:00 pm

Family members and other registered guests are invited to tour places of interest and sample local cuisine during a five-hour trip beginning Monday morning as delegates settle in for the opening session of the Program. Tours include museums, botanical gardens, and historic sites. There is a \$40 fee for each of the 15-25 guests that participate in the tour that is supplemented by Sponsor donations.

Program – Monday - 8:00 am through Wednesday – 12:00 pm

The Annual Meeting Program is arranged to maximize learning and networking. Forty-five to fifty oral and 10-20 poster presentations are selected from abstract submissions. The Program focus is on current or recently completed research or government management program updates, usually beginning with a special session addressing local issues. Oral presentations are limited to 15 minutes with an additional five minutes for questions and discussion.

Each morning begins with a complimentary continental breakfast from 7:00-8:00 am held in the same room as the exhibits to facilitate discussions among delegates and vendors. Morning and afternoon sessions contain 4-5 presentations separated by 30-minute breaks, likewise held in the exhibit hall, allowing time to network and tend to business issues before returning on-time for the next presentation. Lunch breaks are scheduled for an-hour-and-half to accommodate the networking luncheons described below and provide more time for face-to-face interaction among meeting attendees. The hour-and-a half format increases attendance for the first presentation after the lunch break.

Students who compete in the oral presentation competition report Masters or PhD level research updates for their major professors. Student presenters are alternated among other speakers, scheduled from Monday afternoon through Tuesday at noon to allow enough time for judging between presentations and to tally scores prior to the Tuesday evening Awards Banquet. At least five different volunteer judges are sought every year to evaluate presentations. Both the oral and poster presentations are judged on factors such as; materials and methods, data organization and interpretation, visual and oral presentation, and ability to relate their research to current management issues.

The APMS Annual Business meeting is scheduled after the last oral presentation on Monday afternoon. Business items include updates on Committee activities and voting to approve the Slate of Officers and Directors recommended by the Nominating Committee and tentatively accepted by the Board pending the Membership vote of approval. Members may also vote on Bylaws revisions drafted by the Board. All items proposed for Membership vote at the Annual Business Meeting are advertised and explained in the APMS [Newsletter](#) at least 30 days prior to the Annual Meeting.

At the end of the Program, a five-minute update is provided by a representative from each APMS Chapter on significant Regional aquatic plant management activities along with logistics for the Chapters' Annual Meetings.

Student Affairs Luncheon – Monday – 12:00 pm – 1:30pm

Open to all students registered for the Annual Meeting, the Student Affairs Luncheon is an opportunity for students to get to know each other and to interact with key APMS members. The Student Affairs Committee Chair presides over the Luncheon. Guest speakers discuss research as well as career opportunities in aquatic plant management-related fields. Students elect a representative to serve a one-year term as the Student Director on the APMS Board of Directors. The Student Director attends all three BOD meetings providing insight on issues of concern among students.

Regional Chapters Luncheon – Monday – 12:00pm – 1:30pm

Each Chapter President and a guest are invited to attend the Regional Chapter Luncheon directed by the Regional Chapters Committee Chair. Attendees discuss management-related issues within each region. Updates are also provided for Chapter attendees on APMS activities. The Chair petitions attendees for suggestions as to how APMS may assist Chapters, for example, in outreach or research matters, and reports back to the APMS Board at the post-conference BOD meeting.

Poster Reception – Monday Evening – 6:00 – 7:30pm

The APMS Poster Reception is presented early on Monday evening with all poster presenters in attendance to explain their work and answer questions. The Poster Reception is held in the Exhibit hall to enhance networking among vendors and sponsors along with researchers. Light hors d'oeuvres and beverages are served to encourage and retain attendance. Afterwards, there is sufficient time for attendees to discuss research or business on site or at a local restaurant.

Past President's Luncheon – Tuesday – 12:00 – 1:30pm

All APMS Past Presidents in attendance at the Annual Meeting are invited to share experiences and comment on current issues before the Society. The Past Presidents Advisory Committee Chair leads discussion during the luncheon. The current President also attends to report findings and suggestions back to the Board at the Post-conference Board meeting on Wednesday afternoon.

Women of Aquatics Luncheon – Tuesday – 12:00 – 1:30pm

The Women of Aquatics is a newly established group that first met during the APMS Annual Meeting in 2015. This luncheon is open to women registered for the APMS Annual Meeting and is presided over by the Women of Aquatics Special Representative to the APMS Board. Attendees discuss career opportunities and current issues facing women in aquatic fields.

Awards Banquet – Tuesday – 6:00 – 10:00pm

The Awards Banquet is the premier social event of the APMS Annual Meeting. The event is usually held in the hotel banquet hall, but occasionally in a nearby interesting venue. Local entertainment is sometimes booked. A dinner cruise may be scheduled when space is suitable for the 200-250 that may attend. Following a pre-banquet social hour, guests enjoy a sit-down meal with friends and colleagues until about 8:00 pm. Both short and long-term achievement [Awards](#) are presented to APMS members and others who have served in aquatic plant management.

All student presenters are introduced and 1st – 3rd place cash awards are presented to the winners of the oral and poster presentation competitions. The Outstanding Graduate Student Award is presented, and the recipient of the Graduate Student Research Grant is announced (the GSRG is awarded during even numbered years- more often if sufficient funding or sponsors are available).

After outgoing Officers and Directors are acknowledged and new Board members are introduced, entertainment and fund raising activities for education and outreach programs begin. Silent auction winners are announced and a raffle drawing for grand prizes culminate the banquet. The auction and raffle generate \$5,000-\$8,000 annually.

Post-Conference Student Tour – Wednesday – Immediately after the Annual Meeting

Transportation is provided for students to see first-hand, aquatic plant infestations, management operations, and local research facilities. APMS rents a van or small bus for transportation. The Student Affairs Committee Chair leads the tour with support from several other Committee members in attendance. The group interacts with local managers at different stops along the tour to discuss plant issues and to review management strategies. The group may stay overnight at a remote site or return to the Annual Meeting Hotel for one last night prior to departing for home. APMS provides lunch and dinner for tour attendees in addition to lodging.

Mr. John Madsen, President
Aquatic Plant Management Society (APMS)
c/o Exotic and Invasive Weeds Research
UC Davis/Department of Plant Sciences
274 Robbins Hall, One Shields Ave
Davis, CA 95616

January 6, 2017

Dear Mr. Madsen,

The Center for Aquatic and Invasive Plants is already busy planning for PLANT CAMP 2017! This next event, to be held June 12th-16th, marks our 11th anniversary providing this unique workshop to Florida teachers!

PLANT CAMP would not be possible without all the individuals and organizations that support it through donations of time, money, and materials. Your organization's sponsorship of this event for the past several years, along with long-term funding from the Florida Fish and Wildlife Conservation Commission, has helped create a model workshop that has provided over 320 teachers with the confidence and resources needed to teach about invasive species and their management in the classroom. These teachers have gone on to educate over 78,000 Florida students!

We work hard to maintain a high level of professionalism and to provide a quality experience for all involved. Sponsors are needed to cover expenses that fall outside UF's grant parameters such as mid-day meals, field trip expenses, and PLANT CAMP t-shirts. These special touches make the workshop more memorable for participants and help attract top-notch teachers every year in a competitive application process.

Last year you generously contributed the cost of the welcoming dinner for participants, rental of the lab facility at Kanapaha Botanical Gardens, and assisted with the cost of t-shirts for teachers, presenters and volunteers. We hope we can count on your support again this year at \$1000. Sponsors are recognized on PLANT CAMP t-shirts, on our Education Initiative website and social media pages, on placards displayed during meals, print materials for the workshop, and class activities and lectures.

Teachers receive hands-on instruction at PLANT CAMP that is crucial to sparking their enthusiasm to bring these lessons back to their classrooms. We are encouraged by the post-workshop evaluations that continue to indicate an increase in participants' awareness of the problems and challenges associated with invasive plants. Survey results also show positive changes in attitudes toward plant management strategies and methods. For more information about the workshop and the Florida Invasive Plant Education Initiative, please see our website at <http://plants.ifas.ufl.edu/education>.

Thank you for considering this request. Please let us know at your earliest convenience if APMS is able to partner with us for this important project. Feel free to contact me with any questions.

Sincerely,



Dehlia Albrecht
Coordinator, Florida Invasive Plant Education Initiative
dehliadee@ufl.edu | 352.273.3665 | plants.ifas.ufl.edu/education

cc: Jeremy Slade, Treasurer

The Foundation for The Gator Nation
An Equal Opportunity Institution

Creation of educational video presentation by UF/IFAS Center for Aquatic and Invasive Plants

Deliverables:

UF/IFAS Center for Aquatic and Invasive Plants:

- Create a complete introductory video presentation on invasive plants throughout the United States including graphics, images, on-screen text and narration appropriate for students in 4th-12th grade.
- Narration and on-screen text will be vetted by CAIP professors and staff and will be made available to APMS for feedback before finalizing.
- Inclusion of sponsorship information in the video presentation (APMS logo and text).
- Create a list of keywords and assessment questions aligned to the video presentation.

Aquatic Plant Management Society:

- Supply UF/IFAS CAIP with a high resolution logo for video inclusion
- If desired, provide feedback on narration and on-screen text.

Timeline:

UF/IFAS CAIP will be working with the UF Center for Instructional Technology and Training on video production. The project will be complete within one year from the start date. UF/IFAS CAIP will invoice APMS upon project completion.

Budget:

- Production:
 - Videography and recording services will be provided at no charge by the Center for Instructional Technology and Training at UF
 - Story-board creation (Project Assistant) @\$20/hour x 336 hours = \$6720
 - Fringe for OPS Project Assistant =5.4% x = 362.88
 - Project coordination/supervision (Katie Walters) @\$22/hour x 100 hours = \$2200
 - Fringe for Project Coordinator =33.3% x 2200= 732.6
- TOTAL: 10,015.48
- IDC @ 15% = 1502.32
- TOTAL BUDGET: \$ 11,517.80

Sponsorship and Exhibits Committee: Previous Chair, Craig Aguillard, provided an update of exhibitors for the 56th annual APMS conference in Grand Rapids: there were 20 paid exhibits at \$700 and 2 non-profits registered for a total of \$14,000. The sponsorship breakdown is as follows: One sponsor at \$7500, four sponsors at \$5000, four sponsors at \$2500, and 7 sponsors ranging from \$200 to \$1000, for a total of \$40,900.

Proposed Sponsor Levels and Benefits

Sponsorship and Exhibits Committee

Chair: Dean Jones

Subject: Proposed Sponsorship Changes for Board Discussion and Consideration

Background:

It is my understanding there have been concerns about various aspects of APMS sponsorship for numerous years. My investigation revealed original concerns revolved around vendors who sponsored specific events, such as the President's Reception, Student Affairs Luncheon, Banquet, etc., that were criticized for marketing or recruiting during the event. It was the sponsor's feeling it was justified based on the amount of money donated in order to sponsor that event. Although tweaks have been instituted over the years to address complaints, like acknowledging multiple sponsors at the meeting events instead of designating a specific sponsor for a specific event, complaints continue.

At the 2016 meeting in Grand Rapids, MI, APMS organized and paid for a lunch meeting in order to get all the sponsors together to discuss sponsorship and to brainstorm potential improvements. Although numerous topics were discussed during the meeting, the following is the list of sponsorship issues:

1. The sponsors want to know what they are getting for their sponsorship.
2. The sponsors want more see the benefits increase with increasing levels of sponsorship.

Although the list is vague and I know it's impossible to make everyone happy, I have a few suggestions for improvements I believe can address past, current and future complaints.

Recommendations:

1. Although sponsors are provided all available sponsor information in an email with attachments and this information is available on the website, it is somewhat difficult to navigate to the sponsor information page. This information is found at the bottom of the annual meeting page for the upcoming meeting. Also, does anyone know where the meeting sponsor or the scholastic endowment pages are on the website? One of the benefits of sponsorship includes recognition on these website pages with a direct link to the company's home page. I am recommending a Sponsor Link be added to the APMS Home Page to make it easier to get to this information with all the information included.
2. The table on the following page provides information for Proposed Sponsor Levels and Benefits. (The Current Sponsor Levels and Benefits table is attached for reference and comparison.) A format change should make it easier to follow and determine benefits. The contribution ranges were converted to a specific dollar amount. This should eliminate some controversy as most sponsors are already committing to a whole dollar amount at the low end of the ranges provided. The Contributor Level was raised from \$100 to \$500. Meeting registration and booth space benefits were modified to address the request for more benefits with increase sponsor levels. Acknowledgement will remain the same for the most part with one or two exceptions. I anticipate additional recognition changes during the board discussion.

Proposed Sponsor Levels and Benefits

Sponsor Levels and Benefits	Platinum \$10,000	Gold \$7,500	Silver \$5,000	Bronze \$2,500	Contributor \$500	Silent Auction Contributor
Complimentary meeting registration(s)	4	3	2	1		
Complimentary booth space(s)	2	1				
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 Program Agenda as event sponsor or co-sponsor for Refreshment Breaks	✓	✓	✓	✓	✓	
Acknowledgement on APMS Program Agenda as event sponsor or co-sponsor for Continental Breakfast	✓	✓	✓	✓		
Acknowledgement as event sponsor or co-sponsor on APMS Sign and Program Agenda for Poster Session Reception	✓	✓	✓			
Acknowledgement as event sponsor or co-sponsor on APMS Sign and Program Agenda for President's Reception	✓	✓	(✓)			
Acknowledgement as event sponsor or co-sponsor on APMS Sign and Program Agenda 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 higher level sponsor.

Proposed Sponsor Levels and Benefits

- Specialty Events are those attended by a small sub-population of the APMS society. Sponsor recognition for these events requires a separate sponsorship based on the cost of the event and will be divided evenly among participants if there are multiple sponsors. Otherwise, all sponsors and contributors will be acknowledged for these events, or it will just be an APMS event with no sponsors recognized.

Specialty Events	Student Affairs Lunch	Regional Chapter Presidents' Lunch	Past Presidents' Lunch	Women in Aquatics Lunch	Guest Tour*
2016 Costs**	\$1,056	\$704	\$577.74	\$810.25	\$1,200
2016 Number of Participants**	30	20	15	22	11
Proposed Costs	No Sponsors All Sponsors Nominal Fee Full Fee (\$500 - \$2,500)	No Sponsors All Sponsors Nominal Fee Full Fee (\$500 - \$2,500)	No Sponsors All Sponsors Nominal Fee Full Fee (\$500 - \$2,500)	No Sponsors All Sponsors Nominal Fee Full Fee (\$500 - \$2,500)	No Sponsors All Sponsors Nominal Fee Full Fee (\$500 - \$2,500)
Acknowledgement as event sponsor or co-sponsor on APMS Sign and Program Agenda	✓	✓	✓	✓	✓
Sponsor has a brief opportunity (5 mins or less) to discuss their company and role in industry	✓	✓	✓	✓	

*Applied Biochemists for years has donated \$2,500 per year to sponsor the Guest Tour.

**Included for reference only. Prices can fluctuate somewhat with the venue.

Additional Discussion Topics

- What are your thoughts on adding a Sponsor Page to the website that includes all sponsorship information and recognition in one location?
- How much recognition should the Contributor sponsors receive?
- Should we include Contributor sponsors on all signs, general or certain event signs only, etc.?
- Most signs now have all the sponsors listed by sponsorship level. I believe this is an excepted method of acknowledgement for most sponsors. If it has not been this way previously, the font size and prominence on signage should increase with the sponsorship levels. Depending on answers for items 1 and 2, should we put Contributor sponsors on a separate sign?
- How do we recognize the Silent Auction Contributors? (See Current Sponsor Levels and Benefits list for reference) Some of the pages don't exist on the website. It is also my understanding donations are routinely last minute with no way of including in the Program or Signage.
- What about offering the option of sponsoring a meeting session for a fee (\$250)? This could be the avenue for providing sponsors an opportunity for a very brief (< 5 mins) company update.

Current Sponsor Levels and Benefits

Sponsor Level	Contribution	Recognition
Platinum	\$10,000 or more	<ul style="list-style-type: none"> Website recognition – listing on meeting sponsor page, with direct link to sponsor's home page Program recognition – listing on the meeting sponsor page Meeting recognition – listing on meeting sponsor sign Program recognition – prominent page as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour) Meeting recognition – prominent sign as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour) Two (2) complimentary meeting registration One (1) complimentary single booth (8×10) space
Gold	\$7,500-\$9,999	<ul style="list-style-type: none"> Website recognition – listing on meeting sponsor page, with direct link to sponsor's home page Program recognition – listing on the meeting sponsor page Meeting recognition – listing on meeting sponsor sign Program recognition – prominent page as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour) Meeting recognition – prominent sign as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour) Two (2) complimentary meeting registration
Silver	\$5,000-\$7,499	<ul style="list-style-type: none"> Website recognition – listing on meeting sponsor page, with direct link to sponsor's home page Program recognition – listing on the meeting sponsor page Meeting recognition – listing on meeting sponsor sign Program recognition – prominent page as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour)

Current Sponsor Levels and Benefits

		<ul style="list-style-type: none"> Meeting recognition – prominent sign as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour) One (1) complimentary meeting registration
Bronze	\$2,500-\$4,999	<ul style="list-style-type: none"> Website recognition – listing on meeting sponsor page, with direct link to sponsor's home page Program recognition – listing on the meeting sponsor page Meeting recognition – listing on meeting sponsor sign Program recognition – prominent page as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour) Meeting recognition – prominent sign as special event sponsor or co-sponsor (Banquet, President's Reception, Refreshment Breaks, Spouse Tour)
Contributor	\$100-\$2,499	<ul style="list-style-type: none"> Website recognition – listing on meeting sponsor page, with direct link to sponsor's home page Program recognition – listing on the meeting sponsor page Meeting recognition – listing on meeting sponsor sign
Sponsor Levels	Recognition	
Silent Auction Contributor	<ul style="list-style-type: none"> Website recognition – listing on scholastic endowment sponsor page, with direct link to sponsor's homepage Program recognition – listing on scholastic endowment sponsor page Meeting recognition – listing on scholastic endowment sponsor sign 	

Finance Committee Report

January 2017 APMS Board Meeting
Daytona Beach, Florida

Both the APMS and the Endowment investment accounts provided positive returns in 2016.

2016 Investment Performance

APMS Main Account: 7.33% Increase

Endowment Account: 6.33% Increase

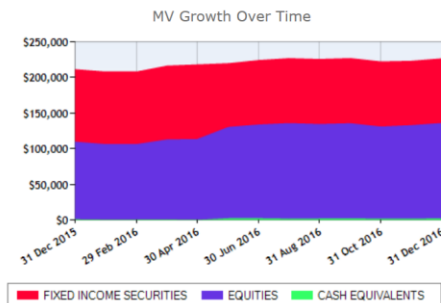
AQUATIC PLANT MANAGEMENT SOCIETY INC IMA

Account #: 540

Holding Summary On: 12/31/2016

Asset Segment	12/31/2015 Valuation	%	12/31/2016 Valuation	%	Change in Value (\$)
Cash	1,944.79	0.92	3,030.67	1.34	1,085.88
EQUITIES	23,746.94	11.26	41,737.27	18.47	17,990.33
FIXED INCOME SECURITIES	20,321.11	9.64	20,880.44	9.24	559.33
MUTUAL FUNDS	164,821.49	78.18	160,361.86	70.95	-4,459.63
Grand Total	210,834.33	100.00	226,010.24	100.00	15,175.91

	Current Period	YTD
Beginning MV	\$210,834.35	\$210,834.35
Ending MV	\$226,161.71	\$226,161.71
Additions	\$0.00	\$0.00
Subtractions	(\$100.00)	(\$100.00)
Net Change	(\$100.00)	(\$100.00)
Total Return	\$15,427.36	\$15,427.36
	7.33%	7.33%



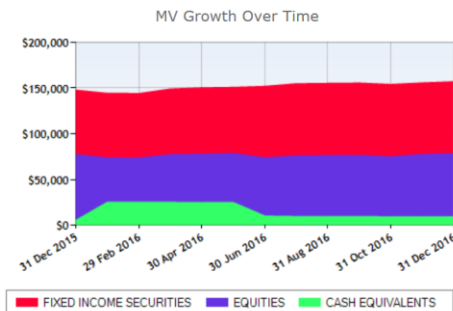
AQUATIC PLANT MGMT SOC INC ENDOWMENT IMA

Account #: 550

Holding Summary On: 12/31/2016

Asset Segment	12/31/2015 Valuation	%	12/31/2016 Valuation	%	Change in Value (\$)
Cash	6,555.61	4.44	10,441.28	6.66	3,885.67
EQUITIES	23,245.05	15.75	3,072.38	1.96	-20,172.67
FIXED INCOME SECURITIES	10,009.14	6.78	15,279.53	9.74	5,270.39
MUTUAL FUNDS	107,768.41	73.03	127,997.54	81.64	20,229.13
Grand Total	147,578.21	100.00	156,790.73	100.00	9,212.52

	Current Period	YTD
Beginning MV	\$147,699.43	\$147,699.43
Ending MV	\$156,940.85	\$156,940.85
Additions	\$0.00	\$0.00
Subtractions	(\$100.00)	(\$100.00)
Net Change	(\$100.00)	(\$100.00)
Total Return	\$9,341.42	\$9,341.42
	6.33%	6.33%



Report of the Meeting Planning Committee (MPC)

January 12, 2017

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

Committee Members:

Craig Aguillard, Linda Nelson, Cody Gray, Sherry Whitaker, Troy Goldsby, Bryan Goldsby, George Selden, Chris Mudge, Tommy Bowen (Chair)

56th Annual Meeting, July 17-20, 2016, Grand Rapids, Michigan

After reviewing the Treasurer's budget and adding expenses to the MPC budget not captured in the past, our income for the Grand Rapids meeting was adjusted to \$17K.

57th Annual Meeting, July 16-19, 2017, Daytona Beach, Florida

Enclosure 1 is a preliminary budget for the 57th Annual Meeting. This budget is based on an attendance of 185 delegates, exhibitors, students, and guests. A net income of \$13K is estimated for this annual meeting. The conference rate is \$139 per night. The Committee continues to finalize the guest tour, information for the web site, articles for upcoming newsletters, and soliciting donations for meeting sponsorship. In addition, the Committee is coordinating with Bill Torres concerning our meeting requirements and will be coordinating with APMS officers and committee chairs regarding other meeting necessities (exhibits, registration, audio/visual, student rooms, raffle/silent auction, etc.).

ACTION ITEM. After discussion by the MPC and receiving a recommendation from the Sponsor's Luncheon meeting in Grand Rapids, the Committee recommends increasing registration costs to \$300 for regular registration, \$375 for late registration, and \$800 for exhibitor's fees with the increase beginning with the 2017 meeting. Registration costs have been the same (\$275/\$330) since 2009.

58th Annual Meeting, July 15-18, 2018, Buffalo, New York

The 58th annual meeting will be held at the Hyatt Regency Buffalo Hotel and Conference Center in Buffalo, New York. The conference rate is \$159 per night. The contract has been signed.

59th Annual Meeting, July 14-17, 2019, San Diego, California

The 59th annual meeting will be held at the DoubleTree by Hilton San Diego Mission Valley in San Diego, California. The conference rate is \$169 per night. The contract has been signed.

60th Annual Meeting,

ACTION ITEM. After reviewing over 22 venues in 13 cities in Texas, Canada, and Puerto Rico, the MPC recommends the Board select Texas as the 2020 venue region (regular region rotation). The MPC requests approval for travel and expenses for Bill Torres to conduct site visits in Austin, Dallas, Houston, and San Antonio for the 2020 annual meeting. Bill's travel may last up to three days.

1 Enclosure

Tommy

Preliminary Budget

57th Annual Meeting, July 16-19, 2017, Daytona Beach, Florida

Income/Expense

Income

Exhibitor Fees (25)	17,500.00
Delegate Registration (115)	31,625.00
Late Registration (5)	1,650.00
Guests (20)	2,600.00
Students (20)	-
Total Registration	35,875.00
Sponsor Contributions	40,500.00

Total Income 93,875.00

Expense

Audio Visual*	2,215.00
Food and Beverage	
Banquet	13,700.00
Board of Directors Meetings	1,795.00
Past Presidents' Luncheon	480.00
Poster Session Reception	5,030.00
President's Reception	6,470.00
Continental Breakfasts / Refreshment Breaks	15,302.50
Women in Aquatics Luncheon	320.00
Student Meet and Greet	400.00
Regional Chapters Presidents' Luncheon	640.00
Student Affairs Luncheon	640.00
Sales Taxes (6%) / Service Charges (22%)	13,394.19
Total Food and Beverage	58,171.69
Guest Tour	2,000.00
Meeting Signage	2,000.00
Student Tour	1,000.00
Poster Boards	400.00
Program	1,500.00
Meeting Planner Fee	1,800.00
Student Guest Rooms / Meals / Books / Awards	8,000.00
Plaques/Certificates	1,200.00
Registration Booth Staff Travel	800.00
President / Secretary Travel	2,000.00
Host Affiliate Society Reimbursement	

Total Expense 81,086.69

Net Income 12,788.31

* Florida Event Planning and Meeting Service estimated A/V costs. Hotel quote \$5700



July 20, 2016

Bill Torres
Meeting Planner
AQUATIC PLANT MANAGEMENT SOCIETY
329 Dreadnaught Court
Tallahassee, FL 32312

Dear Bill:

At your request we are changing your room block for AQUATIC PLANT MANAGEMENT SOCIETY in 2017 as follows:

From:

	Sat 07/15	Sun 07/16	Mon 07/17	Tue 07/18	Wed 07/19
Run of House	38	118	123	123	18
Suites	7	7	7	7	7
Total Rooms	45	125	130	130	25

Total Room Nights: 455

To:

	Sat 07/15	Sun 07/16	Mon 07/17	Tue 07/18	Wed 07/19
Run of House	48	133	138	123	23
Suites	7	7	7	7	7
Total Rooms	55	140	145	130	30

Total Room Nights: 500

This addition to your Contract will change your total room night commitment from 455 to 500 room nights.

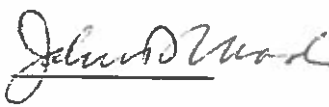
The total room revenue commitment will change from \$60,000 to \$66,255.

Please sign this copy of the Addendum to your Contract and return. Please note that all other clauses and agreements within the existing Contract will remain in effect, as is.

Thank you for choosing the HILTON DAYTONA BEACH/OCEAN WALK VILLAGE.

Sincerely,


Mary Jo Ortiz
Sales Manager


APMS President


Lisa Shavatt
Director of Sales & Marketing

Date 7/21/16

Date 7/20/2016

Date 7/21/2016



Mid-Year Report for the Aquatic Plant Management Society Annual Meeting

Venue Information	HILTON DAYTONA BEACH OCEANFRONT RESORT 100 N Atlantic Avenue Daytona Beach, FL 32118							
Meeting Dates	Saturday: July 15, 2017 Sunday: July 16, 2017 Monday: July 17, 2017 Tuesday: July 18, 2017 Wednesday: July 19, 2017							
Guest Room Information	Rate & Tax	\$139.00 single/double 12.5 %						
	Rate available	3 days pre and post Meeting dates						
	Reservation cut- off Date	June 23, 2016						
	Room Block	Saturday	Sunday	Monday	Tuesday	Wednesday	Total	
		45	125	130	130	25	455	
Reservation Link	866-536-8477							
Food and Beverage Information	Guaranteed Commitment	\$20,000						
	Service Charge	22 %						
	Tax	6.5 %						
	Attrition	80%						
Concessions	<ul style="list-style-type: none">• One complimentary room for every 40 guest rooms occupied• Complimentary Meeting & Exhibit Space• 25 - Complimentary exhibit table top• Upgrades: 1- Presidential Suite, 6- Suites at Group rate• Hospitality suite at group room rate• \$25 charge per table for electricity for those requesting electricity• Complimentary Board meeting space for 15 people in January 2017• Complimentary internet in all guest rooms• Lock in Food and Beverage prices at time of contract signing.• Complimentary self-parking							
Due Dates	<ul style="list-style-type: none">• July 1, 2017 50% of anticipated Master Account due							

Date	Start	End	Function	Room Assigned	Audio- Visual	Food & Beverage	Misc. Information	GTD	SET	Price per Person	F&B Cost per Event	Fees (Bartender or Attendent)	Audio - Visual Costs
Mon Jan 23, 2017	<p align="center">No APMS meetings scheduled for today. A few of the Board member will be checking in for Tuesday's meeting. 20 Guest rooms are blocked for this evening</p>												

Banquet Agenda - Midyear BOD Meeting

Tuesday, January 24, 2017 -STRATEGIC PLANNING MEETING													
Date	Start	End	Function	Room Assigned	Audio- Visual	Food & Beverage	Misc. Information	GTD	SET	Price per Person	F&B Cost per Event	Fees (Bartender or Attendent)	Audio - Visual Costs
Tues Jan 24	7:00	8:30	Board Breakfast	ATLANTIC	Sliced Seasonal Fruit, chilled fruit juices, Freshly Baked Muffins, Danish, Bagels and Breakfast Breads Marmalade, Fruit Preserves, Cream Cheese, Honey and Butter, regular and de-caf coffee & Teas (Ice Tea) Breakfast Croissant A Flaky Croissant Filled with Scrambled Eggs Virginia Ham and Cheddar Cheese - Assorted soft drinks on consumption		Please leave coffee, breads, croissants and muffins until 11:00 am	15	15	\$ 14.25	\$ 213.75		
Tues Jan 24	8:00	7:00	Strategic Planning Meeting	ATLANTIC	2 power strips in center of Hollow Square Wi-Fi		Hollow Square with access to center of hollow square, small table in the center of the hollow square						
Tues Jan 24	10:00	10:30	Morning Break	ATLANTIC		Regular & De-caf coffee & Tea, fruit flavored yogurt & assorted granola energy bars & bananas, assorted soft drinks		15		\$ 10.00	\$ 150.00		
Tues Jan 24	12:00	1:30	Lunch	ATLANTIC		GRILLED MAHI SANDWICH Grilled Mahi Mahi with a Coriander Chipotle Drizzle Lettuce, Tomato and Azure Slaw on a Chibatta Roll Marinated Grilled Vegetable Salad Freshly Brewed Coffee, Decaffeinated Coffee and Iced Tea \$20.95++ per person		17		\$ 20.95	\$ 356.15		
Tues Jan 24	3:00	3:30	Afternoon Break	ATLANTIC		Gourmet Cookies & Brownies, Regular & De-caf coffee & Tea, assorted soft drinks		12		\$ 10.00	\$ 120.00		
Tues Jan 24	6:00	8:30	Dinner	ATLANTIC		Grilled New York Steak – New York strip, roasted garlic mashed potatoes & seasonal vegetables, rolls w/creamy butter, chef's choice dessert, Iced tea & coffee	1 bar tender for Hosted bar	17		\$ 45.00	\$ 765.00	\$ 100.00	

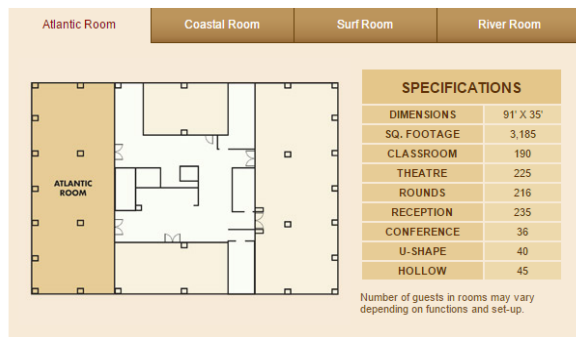
Wednesday, January 25, 2017 - BOARD MEETING

Date	Start	End	Function	Room Assigned	Audio- Visual	Food & Beverage	Misc. Information	GTD	SET	Price per Person	F&B Cost per Event	Fees (Bartender or Attendant)	Audio - Visual Costs
Wed Jan 25	7:00	8:30	Board Breakfast	ATLANTIC		Sliced Seasonal Fruit, chilled fruit juices, Freshly Baked Muffins, Danish, Bagels and Breakfast Breads Marmalade, Fruit Preserves, Cream Cheese, Honey and Butter, regular and de-caf coffee & Teas (Ice Tea) Egg & Sausage Burrito Farm Fresh Scrambled Eggs, Southwest Sausage, Monterey & Pepper Jack Cheeses In a Rolled Flour Tortilla Served with Salsa, Sour Cream and Jalapenos Assorted soft drinks on consumption	Please leave coffee, breads, croissants and muffins until 1100 am	15	15	\$ 14.25	\$ 213.75		
Wed Jan 25	8:00	7:00	Board Meeting	ATLANTIC	2 power strips in center of Hollow Square Wi-Fi		Hollow Square with access to center of hollow square, small table in the center of the hollow square						
Wed Jan 25	10:00	10:30	Morning Break	ATLANTIC		Regular & De-caf coffee & Tea, fruit flavored yogurt & assorted granola energy bars & bananas, Soft drinks on consumption		15		\$ 10.00	\$ 150.00		
Wed Jan 25	12:00	1:00	Lunch	ATLANTIC		CHICKEN SANDWICH Herb Marinated and Grilled Chicken Breast Served with Melted Monterey Jack Cheese, Fried Green Tomatoes On a Whole Wheat Bun with an Orange Jezebel Sauce Marinated Grilled Vegetable Salad Freshly Brewed Coffee, Decaffeinated Coffee and Iced Tea \$17.95++ per person		15		\$ 17.95	\$ 269.25		
Wed Jan 25	1:00	2:00	Venue Tour				Mary Jo Ortiz or Josh William scheduled to provide Board members a tour of the hotel. Transportation bus provided by the Hilton Daytona Beach Oceanfront Resort						
Wed Jan 25	3:00	3:30	Afternoon Break	ATLANTIC		Gourmet Cookies & Brownies, Regular & De-caf coffee & Tea, assorted soft drinks		15		\$ 10.00	\$ 150.00		
Wed Jan 25	6:00	8:30	Dinner			set up a meal				\$ 1.00	\$ -		
											Total	\$ 2,387.90	\$ 100.00
											22% Service Charge	\$ 525.34	\$ 22.00
											Subtotal	\$ 2,913.24	\$ 122.00
											6.5% Sales Tax	\$ 189.36	\$ 7.93
											Grand Total	\$ 3,102.60	\$ 129.93

THURSDAY, January 26, 2017

Date	Start	End	Function	Room Assigned	Audio- Visual	Food & Beverage	Misc. Information	GTD	SET
Wed Jan 25	No Meetings scheduled Board Members checking out								

ROOFTOP MEETING SPACE





20TH INTERNATIONAL CONFERENCE ON AQUATIC INVASIVE SPECIES

October 22-26, 2017, Marriott Coral Springs, Fort Lauderdale, Florida

Host
University of Florida



Conference Secretariat
Invasive Species Centre
Tracey Cooke, Executive Director



Technical Program Committee Chair
Lyn Gettys
Assistant Professor
Aquatic and Wetland Plant Science
University of Florida, IFAS

Conference Administrator
Elizabeth Muckle-Jeffs
The Professional Edge
Tel: North America Toll-free: 1-800-868-8776
Tel: International: 1-613-732-7068
Email: icaais@invasivespeciescentre.ca

www.ICAIS.org

January 6, 2017

Dr. John Madsen
President
Aquatic Plant Management Society
Department of Plant Sciences, UC Davis, 274 Robbins Hall, One Shields Avenue
Davis, CA 95616

Dear John,

We are pleased to inform you that the 20th International Conference on Aquatic Invasive Species (ICAIS) will be held October 22-26, 2017 at the Marriott Coral Springs in Fort Lauderdale, Florida. The theme of the conference is *Global Action Against Aquatic Invasive Species* in recognition of the importance of international collaboration in addressing invaders that know no borders.

We are writing today to ask for a financial contribution towards this year's conference. Such contributions help offset costs, allowing us to maintain affordable registration fees to encourage broad participation internationally.

As I'm sure you are well aware, the introduction, spread and establishment of aquatic invasive species in marine and freshwater environments have had significant negative impacts both economically and ecologically. Next to habitat loss, invasive species are considered to be the second greatest threat to native biological diversity.

ICAIS is widely considered to be the most comprehensive international forum on aquatic invasive species and typically attracts 300 participants from 30 countries with representatives from industry, governments, academia and NGOs.

This conference series provides a review of accumulated scientific knowledge, presentations on the latest field and laboratory research, showcases new technologies for prevention, monitoring and control, discusses policy and legislative advances, and shares best practices for public education and outreach.

A contribution of \$5,000 will provide the Aquatic Plant Management Society with the following benefits:

- Prominent display of the Aquatic Plant Management Society's logo on communication materials in print and electronic formats;
- Aquatic Plant Management Society featured widely through social media campaigns;
- A link from the ICAIS website to the Aquatic Plant Management Society's website;
- Two complimentary conference registrations for Aquatic Plant Management Society representatives;
- Participation by two Aquatic Plant Management Society representatives at the ICAIS Partners' networking reception; and
- The opportunity for an Aquatic Plant Management Society representative to Chair a conference session.

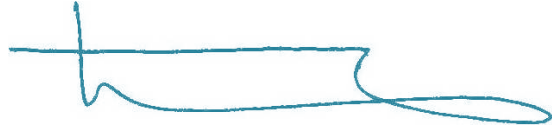
We look forward to hearing from you in the near future that you will partner with us for a successful ICAIS in Florida in 2017.

The conference website (www.ICAIS.org) is the main portal for all conference details, but if you have any questions or require clarification of any details, please let us know.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tracey Cooke', with a large, sweeping initial 'T'.

Tracey Cooke
Executive Director
Invasive Species Centre
Conference Secretariat
tcooke@invasivespeciescentre.ca

A handwritten signature in blue ink, appearing to read 'Lyn Gettys', with a large, sweeping initial 'L'.

Lyn Gettys
Assistant Professor, Aquatic and Wetland Plant Science
University of Florida/IFAS
Conference Host
lgettys@ufl.edu

Publications Committee
January 2017 Board Meeting
Jason Ferrell

Special issue of JAPM: *Research Methods in Aquatic Plant Management*

The Publications Committee met in Grand Rapids in July 2017 to discuss this special publication. In that meeting we identified 15 potential chapters and lead authors (see full list below). All authors have been personally contacted and have agreed to have a rough draft by late January or early February.

AllenPress was also notified of this special issue and they have added a special tab in PeerTrack so these articles can be managed separately from the normal journal articles.

Our intention is to have these to the publisher in October 2017 and in print January 2018. We want to have them available at the International Symposium for Aquatic Plants in New Zealand in February 2018.

Chapters to be included, in no particular order:

1. Propagation methods of algae – John Rodgers
2. Assessing algae management in laboratory and field – John Rodgers
3. Propagation methods of submersed, emergent and floating plants for research – Chris Mudge
4. Laboratory practices to measure herbicide action – Mike Netherland
5. Using ¹⁴C herbicides in aquatic research – Scott Nissen
6. Finding phenological weak points for management– Ryan Wersal
7. Conducting herbicide screening trials – Rob Richardson
8. Herbicide dissipation experiments – Dave Petty
9. Proper survey methods – John Madsen
10. Design and implementation of an appropriate field demonstration- Bill Haller
11. Scaling a project for the laboratory and field – Mike Netherland
12. Incorporating biocontrol agents into a integrated management plan. Practical considerations. Jim Cuda
13. Practical importance of genetic variance – Ryan Thum
14. Treating flowing water: practical considerations – Kurt Getsinger
15. Proper statistical analysis and reporting – Edzard Van Santen

APMS STUDENT AFFAIRS COMMITTEE REPORT

Date: 12 January 2017

Committee: Christopher Mudge (Chair)
Samantha Sardes (Student Rep)
Ben Willis
Leif Willey
Brett Bultemeier

As chair of the Aquatic Plant Management Society Student Affairs Committee, I have several cost reducing recommendations that would aid in decreasing expenditures at the annual conference. Since July, I have received mixed opinions on the amount of money spent by the society for students at the annual conference. Some APMS members are in favor of keeping the current level of expenses to increase student attendance and maintain participation post-graduation, while others believe the number of student events and/or expenses during the meeting should be sensibly reduced. I feel reducing some of these expenses will help the budget, but not discourage student attendance and participation. Such recommendations are listed by each event below. In addition, I also provided recommendations for continuing previous events.

SUGGESTED CHANGES

Meet & Greet: The Student Affairs Committee's recommendation is to eliminate a separate gathering for the student meet & greet, and instead hold the event during the President's Reception on Sunday evening. Typically, this recently added event, was held 1 hour prior to the President's Reception at the hotel bar. The 1 hour open tab social is an added cost to the society. All students will still have an opportunity to socialize during the 2 hour reception and costs will be reduced.

Tour: The Student Affairs Committee's recommendation is to host a 1 day student tour that starts and concludes on Wednesday. I realize starting the tour on Wednesday is not a popular idea with several members of the Board of Directors and general membership, but most of the students during the past few years have not attended the Wednesday morning closing session. Attendance is poor for a variety of reasons, but can be primarily blamed on a long evening of socializing after the Tuesday banquet and/or have to catch an early morning flight back to their university. Regardless, most students will not show up unless they have to present that last morning. By starting the tour Wednesday morning and touring for only 1 day, the additional expense of the Thursday evening hotel would be eliminated. During most post meeting student tours, we toured half a day on Wednesday (unless the meeting concluded after the Wednesday evening banquet), stayed overnight, toured half a day or more on Thursday, and students left the conference that evening or Friday morning. This past year, APMS covered the cost for an additional 4 rooms (7 students) for Thursday evening. Also, by touring only 1 day, the rental fee for 1 (or 2) vans would be reduced by 50%, and the extra meal the society covered on Thursday's lunch would be eliminated.

An alternative to a 1 day tour is to continue touring on both days, and make the student's advisor cover the extra night (Thursday) expense. However, this may discourage student participation in the tour if the University is forced to cover the extra cost.

NO CHANGES

Books: The Student Affairs Committee requests the society to continue providing each student with 1 aquatic related textbook of his/her choice valued at <\$100.00.

Luncheon: The Student Affairs Committee requests the society to continue hosting the student luncheon on Monday of the conference. Similar to last year's conference, I will invite 1 to 3 speakers from various universities, state/federal agencies, or private organizations to discuss their careers, experiences, and other related topics. In addition, I would like to once again invite 1 representative from each of the Gold and Silver Level Sponsors as a token of appreciation for their support of student events and general meeting sponsorship.

Tour: The Student Affairs Committee requests the society to continue hosting the post conference student tour. I recently contacted Dr. Bill Haller for assistance with organizing the student tour. During the next few weeks, he will reach out to various public and private agencies for assistance with boats, tour costs, etc. Within 1 to 2 hours of our hotel in Daytona, there are several waterbodies in the north central and central Florida area that will have active plant management or restoration projects that the students can visit after the July conference. Last year, we had 21 student attendees and 15 tour participants (13 students). Since the conference will be held in Florida, I anticipate a larger number of student attendees compared to previous years.

**B.A.S.S. Report
Submitted to the AERF
Gerald Adrian**

B.A.S.S. Activities:

BASS Conservation Award sponsored by AERF and APMS

APMS and AERF agreed to support a grant of \$3000 (\$1500 ea.) to the Bass Club providing the best proposal for an Aquatic Plant Management project. This is in lieu of the APM Conservation Award that we have sponsored for the past 2 years.

Bass Federation Nation of Virginia was selected as the recipient of the grant to support Aquatic Plant Management. The project will establish shoreline vegetation to improve fish habitat and shoreline stabilization on Claytor Lake, Leesville Lake and Smith Mountain Lake in VA. (An interim report is attached as well as photos of the project)

APMS and AERF sponsored the Conservation Summit luncheon during the Bassmaster Classic. Attendees will include the State BASS Conservation Directors and the State Fisheries Chiefs. Brett Hartis spoke on behalf of both organizations about communication between the APM Industry and bass anglers. Thanks to Brett for a job well done.

APMS and AERF will sponsor this Aquatic Plant Management Conservation grant again in 2017. The RFP was sent out in January and will be awarded in April. The Conservation Summit will not be held this year, so we will not sponsor a banquet or luncheon. The winners of all of the Conservation Awards will be announced on the BASS Website.

Jeff Holland and Brett Hartis have provided support on the BASS website as well as others to provide information about aquatic plant management. These have been quite helpful and has been effective in reaching grass roots bass anglers.

Brett Hartis with TVA has developed an Aquatic Plant ID app for bass anglers.

<https://www.tva.gov/Environment/Environmental-Stewardship/Anglers-Aquatic-Plant-ID> This effort is aimed at anglers, primarily in the region around the TVA lakes. Although this is an independent site and is a work in progress, it is a resource for anglers.

Issues: Although some issues exist, most are a result of the lack of involvement of anglers in the planning process especially where larger scale herbicide treatments are involved. In most cases, explaining the need for control of aquatic weeds satisfies bass anglers, especially if there is some science behind the decisions (and in most treatments this is the case). Unfortunately there are a few anglers that refuse to accept the need for treatments. In cases where you feel B.A.S.S., APMS or AERF can be of assistance please don't hesitate to call me.

Virginia B.A.S.S. Federation Nation Grant Update

- **Sponsoring member/agency:**
 - B.A.S.S. Nation of Virginia, Inc
- **Project Leader Contact:**
 - Joan Blankenship
 - 3461 Lee Ford Camp Road
 - Ridgeway, VA 24148
 - bass2class@gmail.com
 - 276-340-9778
- **Statement of Problem/Need**
 - Native aquatic vegetation that can serve as nursery habitat for juvenile sport and forage fish as well as provide shoreline protection and erosion control, is lacking in many Virginia reservoirs. Restoration efforts have been hampered because plants obtained from commercial sources have been of poor quality and harbored potential invasive species. Sources outside the region cannot supply plants that are adapted to the climate of this area, resulting in poor survival. This site is being selected because it has a large community support as well as agency support. It is an area with college, high school and conservation corps support.
 - There is a need to develop a plant source that can produce the numbers and species required for restoration efforts in several reservoirs. Our goal is to partner with the Pulaski County high school agriculture program to construct and operate a nursery that will propagate plants, assist in the restoration efforts and provide valuable lessons to the students in the role of plants in aquatic ecosystems.
- **Location of project:**
 - Pulaski County High School Pulaski Virginia -80.718527 37.09445
 - Smith Mountain Lake (Huddleston, VA; Bedford County), 37.04098N, -79.53531W.
 - Claytor Lake (Dublin, VA; Pulaski County), 37.5389N, 80.63W.
 - Leesville Lake (Alta Vista, VA Campbell County), 37.09278°N 79.40167°W
 - These reservoirs are all open to public access and include but are not limited to Smith Mountain Lake, Claytor Lake, Leesville Lake and other impoundments .in Virginia.

What is the habitat issue that is being addressed by the proposal?

- Native aquatic vegetation is lacking in Claytor Lake as a result of normal reservoir operations, environmental conditions and grass carp introductions. Juvenile fish are dependent on vegetation as nursery habitat. Lack of emergent shoreline vegetation has resulted in erosion and siltation issues as well. Restoration efforts will require a reliable local source of a wide variety of native aquatic plant species to address the different conditions in each reservoir.
- **Community and agency support for this project:**

This project has tremendous support for Virginia Department of Game and Inland Fisheries as well as local BASS Nation members and community agencies. The project coordinator

participates in all management plan meetings for Claytor, Smith Mountain and Leesville Lakes.

- **Link to Claytor lake management plan that states this need (proposals which complement an existing plan for the lake will receive extra consideration).**
 - John Copeland has emphasized the need to do native aquatic plant restoration ever since hydrilla was successfully controlled in Claytor Lake.
 - <http://www.focl.org/programs/aep-relicensing/shoreline-management-plan/> (Claytor Lake)
 - Leesville Lake plan is being developed.
- **Describe the Methods being used to Address this Need: State the type and amount of habitat that the project proposes to add/restore;**
 - This project is an expansion of the pilot project that was started at Magna Vista High School in 2014(moved to Patrick Henry Community College) and will use existing facilities at Pulaski County high school to create nursery pools and tanks, obtain and pot propagules and culture the plants to maturity, splitting and repotting as necessary to maximize production space.
 - This will be an ongoing project that should be self sustaining after the initial start up. This can be duplicated at other interested high schools.
 - A lesson plan with a time-line for this project will be developed for this project so that it provides added value to the existing horticulture program. This is being developed by JB Snelson, the agriculture teacher at Pulaski County High School.
- **Describe the methods used to accomplish the project;**
 - Step 1: Approval has been obtained from Pulaski County High School to set up a small native plant propagation area in their state-of-the-art greenhouse. Grant funds will be used to purchase plastic pools and quart-size pots for planting and other miscellaneous materials needed in the greenhouse. Soil that is appropriate for aquatic plants has been obtained...
 - Step 2. John Copeland, Virginia Department of Game and Inland Fisheries biologist will help oversee the planting of the seed that will be harvested from plants that were propagated in 2014-2015. The greatest challenge has been finding native seed and this put the original pilot project one year behind. Native seed can only be harvested during the first two weeks in October.
 - Seed was harvested from Aquia Creek on the Potomac River and from the planting at Claytor Lake that produced seed in 2016. We do not know whether these seed are viable or not but they will be mixed with the seed from Aquia Creek.
 - Step 3. Select students that have been identified by the school's Horticulture Department faculty will go on a field trip with parental support to harvest the plants. We used students from the region that were provided by the Chesapeake Bay Foundation this year due to an impending Hurricane the wee of Harvest. John Copeland, Virginia Department of Game and Inland Fisheries Biologist participated in the harvest.
 - Step 4. Under the supervision of school Horticulture faculty and/or Joan Blankenship, MS Ed, conservation director for the Virginia B.A.S.S. Nation, the students will pot and plant the specimens in the greenhouse. John Copeland will also participate in this process. This projected date for planting is the second week in

January 2017. Students will monitor and tend the plants, splitting into additional containers as necessary and document the progress with narrative and photographs. The progress will be posted on the B.A.S.S. Nation conservation web page monthly.

- Step 5. A selection of mature plants will be harvested (June) and introduced into appropriate herbivore-resistant enclosures in the Claytor Lake reservoir. This field trip for students will require parental support. Virginia B.A.S.S. Nation members will provide boats as necessary and the VDGIF Regional biologist will supervise the planting. Friends of Claytor Lake volunteers will also provide support.
- **What are the expected outcomes?**
 - The short-term goal is to establish sufficient nursery capacity to provide plants for restoration efforts that VDGIF, Appalachian Power and other shoreline management teams can use in restoration efforts. The pilot project is still ongoing and this grant will be to expand the concept to other high schools and increase plant production capacity. We will need a lot more plants to meet the needs of Claytor Lake in 2017 and into 2018.
 - It will teach the high school students native aquatic plant culture techniques that may provide the basis for starting a small for-profit business enterprise.
 - This project will also introduce the students to ecological principles outside the greenhouse and to conservation practices that can help control shoreline erosion, provide fish habitat and improve water quality.
- **Partners: Provide a list of partners involved in the project; To be considered a partner, the group/company/agency has to provide either direct monetary or in-kind (supplies, equipment, labor) to the project**
 - Pulaski County High School, VA will provide facilities and students who will work in the greenhouse and on field trips.
 - Virginia Department of Game and Inland Fisheries will provide technical support, assist with locating and collecting source plants, and provide labor during reservoir planting.
 - Appalachian Power will provide technical assistance, boats and labor at field sites.
 - Friends of Claytor Lake will provide additional support with boats and volunteers if needed. They also monitor the growth of the plants and the plant enclosures on a weekly basis during the growing season.
- **Budget**

Partner	Cash Contributions	In-kind Contributions (type: labor, supplies, equipment)	In-kind Contributions (cash value)
AERF-APMS	\$3000.00		
VA B.A.S.S Nation - Joan Blankenship, Conservation Director	\$100.00	Labor, supplies, boats and boat captains life	\$1000

		jackets, shovels, waders	
Appalachian Power		Labor, boats and boat captains, technical support and site selection	100 hours * \$24 = \$2,400
Pulaski County High School-		Greenhouse facilities, labor from student volunteers, teacher supervision	18 weeks * 10 hours per week * 1 teacher * \$24 = \$4,320.
Friends of Claytor Lake		Community supporter and mentor	18 weeks * 4 hours per week * 1 mentor * \$18 = \$1,296.
VDGIF-John Copeland, Regional Biologist		Technical advice and evaluation of quality of plants, locating plant sources and assistance with planting	100 hours * \$24 = \$2,400. Can provide an additional boat as needed

(Volunteer labor should be calculated at \$10/hr for age 16 and under; \$18/hr other volunteers; agency staff labor rates @ \$24/hr

- **Expenditures to date.**
 - **Ground Works** **1,146.11**
 - **Lowes** **295.01**
 - **Mileage** **56.10** (pick up seed from Chesapeake Bay Foundation)
 - **Total** **1,497.22**
 - **Balance remaining** **1,502.78**
- **Outreach (Include an outreach plan) How do you propose to advertise the project (on-site signage, press releases, websites, message boards, etc.)**
 - This project will be promoted on Bassmaster.com, Friends of Claytor Lake, the B.A.S.S. Nation of Virginia conservation web page, Facebook, in news releases to local newspaper(s) and other sources as identified during the project. Photographs and video will be taken from set-up of the project to their introduction in the reservoirs.
 - This project is starting to gain traction and interest from other biologists and anglers who have finally realized that habitat is essential for a healthy fishery.
 - There is a sign in place that lists AERF-APMS as a funding source for this project. It is located at the public boat ramp where anyone launching a boat or driving through the area can see it. It is on Virginia Department of Game and Inland Fisheries property.
- **Progress to January 7, 2017**

- We were awarded the grant in February 2016. During the summer JB Snelson, agriculture teacher, made repairs to the high school greenhouse and set up the framework for the seed.
- John Copeland, Joan Blankenship and Jeff Arnold monitored the plant growth of the eel grass from the Friends of Reservoirs Grant, in Claytor Lake during the summer of 2016. At the end of September, we found that seed was being produced. This was monitored daily to ensure that predators didn't eat it before we could harvest it.
- John Copeland went to Aquia Creek to help with seed harvesting at the invitation of the Chesapeake Foundation (Blair Blanchette) who has graciously provided us with seed two consecutive years.
- In December, I drove to the Richmond office of the Chesapeake Bay Foundation to retrieve seed pods for planting in January 2017. They have to be transported under refrigeration and stored under refrigeration until the time of planting.
- The next step is the planting which is being done in conjunction with the high school calendar. This is tentatively scheduled for the week of January 15, 2017. This is about thirty days later than the planting in 2016 but the greenhouse is closer to the lake and transport will not be an issue. We can also leave the plants in the greenhouse a little longer if necessary.
- Pictures of greenhouse set up attached.
- Picture of Sign attached

CAST Report

2017 APMS Mid-Winter Board Meeting

Joe Vassios

January 12, 2017

The function of CAST as stated by their mission statement is: “CAST assembles, interprets, and communicates credible science-based information regionally, nationally, and internationally to legislators, regulators, policymakers, the media, the private sector, and the public.”

The CAST Annual Meeting was held Oct 27-29 in St. Louis, MO.

Dr. Nancy Reichert from Mississippi State University assumed the role as CAST President-Elect following the Annual Meeting in St. Louis.

The 2016 Borlaug CAST Communication Award was presented to Dr. Kevin Folta from the University of Florida during a World Good Prize Breakfast in October.

Since July, CAST has released one publication titled “The Impact of Asynchronous Approvals for Biotech Crops on Agricultural Sustainability, Trade, and Innovation”, and has a number of additional publications on their forthcoming publication list. Along with this publication, CAST also published an introduction to the Ag Innovation series that will include publications from all 3 CAST Work Groups.

In July, CAST added a “Submit your Idea” button to their website to allow anyone an opportunity to submit ideas for CAST publications. Please feel free to submit any ideas for publications at this link, and they will be evaluated by the Plant Work Group to see if it relevant and falls within the mission of CAST.

I have continued to participate in the Plant Work Group in CAST, and am acting as vice-chair of this group, along with the chair, Wendy Srnicek.

Manuscripts currently under preparation by the Plant Work Group include:

1. “AI: An Introduction”
2. “AI: Irrigation and Precision Crop Management Technologies”
3. “The Impact of CAST—45 Years of Influence in Agriculture”
4. “AI: Plant Breeding and Genetics”
5. “Recruiting and Educating Graduate Students to Become Researchers and Leaders in Global Agricultural Sciences”
6. “AI: Crop Protection Contributions toward Agricultural Productivity”
7. “Why Does Bee Health Matter? The Science Surrounding Honey Bee Health Concerns and What We Can Do about It”
8. Regulatory System Barriers to Innovation for Agricultural Biotechnology
9. Potential Solutions of Nutrient Loss on Water Quality
10. Historic Drought, Aquifer Mining, and Potential Impacts on Long-term Irrigated Agricultural Productivity

Proposals currently in the development stage include:

1. Indoor Greenhouse – Vertical Agriculture
2. Implications of mining nutrients in forestry systems
3. Monarchs and ag practices
4. Impact of ag technologies (crop protection, RNAi) on non-target species
5. Availability and accessibility of inorganic fertilizers for future agriculture

An additional aspect of the functioning of CAST is to help attract additional members to contribute to the CAST mission, including private companies, societies, and individuals. I believe that that our membership as part of CAST has been beneficial with our ability to have their support in publishing a paper on nuisance aquatic plants, and the opportunity to work toward another paper on harmful algal blooms. I would encourage other APMS members to continue to contribute to the mission of CAST.

It is time to renew our membership as a Society Member of CAST, for a total of \$1,500. CAST is a great advocate of the agricultural industry, and has provided great support to APMS with our publication of “Benefits of Controlling Nuisance Aquatic Plants and Algae in the United States. I recommend to the APMS BOD that we renew our membership with CAST.

The 2017 CAST Annual Meeting will be held in Raleigh, NC on October 25-27. I will be attending this meeting, and would be happy to present any additional ideas that APMS members have for publications, or address any items that are of interest to the Society.

Respectfully submitted,

Joseph Vassios



The Science Source for Food,
Agricultural, and Environmental Issues

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Ames, IA 50014-3447 USA
Phone (515) 292-2125 Fax (515) 292-4512

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DATE: 11/01/16

Aquatic Plant Management Society
7922 NW 71 Street
Gainesville, FL 32653

QUANTITY	DESCRIPTION	ITEM PRICE	AMOUNT
1.00	2017 Society Membership Dues	1,500.00	1,500.00
TOTAL			1,500.00

Membership year January 1 to December 31, 2017

Please make all checks payable to Council for Agricultural Science and Technology (CAST).

For questions or to pay by credit card, please call the CAST office at 515.292.2125.

Payment is due within 30 days of the invoice date shown above. If you have any questions concerning this invoice, contact Colleen Hamilton at 515.292.2125 x224 or chamilton@cast-science.org.

Mail payments to:

CAST
4420 West Lincoln Way
Ames, IA 50014-3447

CAST is a qualified 501 (c)(3) tax-exempt organization.

Therefore, your membership and any additional contributions may qualify as charitable contributions under IRS guidelines.

You will receive a verification of contribution.

THANK YOU FOR YOUR GENEROUS SUPPORT!

CAST PLANT WORK GROUP

PUBLICATION UPDATE AS OF NOVEMBER 2016

Approved publications in various stages of development:

“Ag Innovation Series (AI): An Introduction” (AI: Introduction)—Liaison: Todd Peterson; Champion: None; Cochairs: Jay Akridge/Ronnie Green; One potential author; One reviewer

“AI: Irrigation and Precision Crop Management Technologies” (AI: Irrigation)—Liaison: Bernie Engel; Champion: None; No chair or authors yet

“The Impact of CAST—45 Years of Influence in Agriculture” (CAST Impact)—Liaison: Dirk Drost; Champion: Dirk Drost; No chair or authors yet

“AI: Plant Breeding and Genetics” (AI: Plant Breeding)—Liaison: Wendy Srnicek; Champion: Dirk Drost; Cochairs: Stephen Baenziger/Rita Mumm; Authors assembled; CAST performing final edit before sending to designer

“AI: Crop Protection Contributions toward Agricultural Productivity” (AI: Crop Protection)—Liaison: Gary Brewer; Champion: Dirk Drost; Chair: Susan Ratcliffe; Authors assembled; CAST waiting for last reviewer’s comments/suggestions

“Why Does Bee Health Matter? The Science Surrounding Honey Bee Health Concerns and What We Can Do about It” (Bee Health)—Liaison: Todd Peterson; Champion: Todd Peterson; Chair: Marla Spivak; Authors assembled; Document ready for review

Potential Solutions of Nutrient Loss on Water Quality (Nutrient Loss; proposal)—Approved by Board of Directors late October

Historic Drought, Aquifer Mining, and Potential Impacts on Long-term Irrigated Agricultural Productivity (Drought and Mining; proposal)—Approved by Board of Directors late October

Proposal not yet approved by Board:

Regulatory System Barriers to Innovation for Agricultural Biotechnology (Biotech Regs; proposal)—Approved with comments by Board of Trustees and sent back to work group by Board of Directors for modification

RISE Report
Submitted by: Sam Barrick

RISE has been serving on the steering committee of the Waters Advocacy Coalition, which has continued a legislative, regulatory and legal fight to defeat the WOTUS rule.

In addition to several Congressional hearings, where we have had witnesses stating the excesses of the rule, we helped the House Transportation and Infrastructure Committee compile a 189-page report outline the various violations of the Clean Water Act, which is the basis for the rule.

Among the various criticisms, consider the following:

- EPA and ACOE staff were removed from writing the regulations when they disagreed with the political appointees who demanded that they go along with the conclusions they had reached.
- EPA and ACOE stated that one million people wrote to support the rule when in fact these names were taken from a website of Obama supporters, few if any, wrote to support the rule.
- The OMB Office of OIRA (the committee that evaluates the cost-benefit analysis of the rule) were not given adequate time to review the rule.
- The National Association of State Departments of Agriculture and the National Governors Association, among many other non-partisan groups strongly opposed the rule but were ignored.

Congress voted on three occasions to override the WOTUS rule only to have President Obama veto the legislation.

The 6th Circuit Court, and several district courts, have decided to review the rule before final implementation. The 6th Circuit stayed the rule pending a final ruling that will likely occur in the spring of 2017.

President-elect Trump has stated that he wants the rule changed. It is widely predicted that he will file a motion with the 6th Circuit supporting a withdrawal of the rule.

It is widely predicted that EPA Administrator nominee, Scott Pruitt, Attorney General of Oklahoma, will work to either replace, repeal or over haul the rule.

RISE as a member of WAC, under Aaron Hobb's leadership, has worked

strenuously to have the rule withdrawn and replaced with a more workable set of regulations.

RISE also continues to advocate for legislation that would state that NPDES permits are not required for pesticide applications. The House passed this legislation on several occasions over the past several years, but it has stalled in the Senate. Long-time foe of the legislation, Barbara Boxer (D-CA) has retired, but challenges still remain. RISE is already speaking to lawmakers about opportunities to move an NPDES fix next year.

This work will be continued in January in the 115th Congress and with the new President.

Women of Aquatics
APMS-Midyear Board Book Report
January 13, 2016

Submitted by Amy Kay

Women of Aquatics Mission

Together we promote all women of the aquatics industry by inspiring and supporting them to pursue their ambitions and achieve their potential both professionally and personally.

Areas of Focus

- Career Advancement
- Continuing Education
- Work-Life Balance
- Health & Wellness

Goals & Progress

- Have a WOA meeting at each conference as able to increase participation, retention and growth within the organization and our industry as a whole.
 - The Northeast Aquatic Plant Management Society hosted the first WOA meeting of 2017 in Portsmouth, New Hampshire during their annual conference. 40 women were in attendance, by far the largest gathering to date. Attendees introduced themselves, and shared their pathway to and experiences in the aquatics industry. They were also ask to brainstorm and share ideas in what would bring value to having a WOA membership.
 - Upcoming meetings planned for MAPMS, WAPMS, APMS and FAPMS
- Become a nonprofit organization
 - Paperwork has been accepted by the State of Illinois, still waiting on final processing and receipt of articles.
- 2016-2017
 - Establish Board of Directors
 - President: Amy Kay
 - Vice President: Sue Cruz
 - Treasurer: Syndell Parks
 - Director: Shannon Junior
 - Still looking to add a Secretary, Editor and additional directors
 - Setup Banking
 - Website Launch
 - Establish Membership
 - Pricing: Students/Professionals
 - Affiliate process/pricing
 - Establish specific benefits of membership
 - Meeting plans for at least 2 additional APMS chapter conferences
 - NEAPMS
 - FAPMS
 - Grow contact list (future membership list) from 90-115
 - Currently at 130, updated goal 150+ by APMS 2017
 - Training Retreat(s)

WOA would like to thank the APMS board for the continued participation and support provided.

Any feedback or suggestions are encouraged.

Subject: First Regional Listening Session Summary

WSSA and Affiliated Society Presidents:

As you know, our regional herbicide resistance listening sessions are now underway, with the first completed last week in Mississippi. Following and attached is a summary from this session. I wanted to pass it along for your information; if you'd like to share it with your board please feel free to do so.

Thanks,

David

*David R. Shaw, Vice President
Research and Economic Development
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On December 5th, 2016, I attended the first of the Regional Listening Sessions on Herbicide Resistance. The Session took place in the morning in Starkville, MS as part of a Row Crops course that was being held by Mississippi State University.

At the beginning of the session, there were approximately 175 attendees in the room. They were spread out over about 18 tables. Of the 175, I counted 8 women, 4 persons of color (one of who appeared to be an actual farmer. I suspect the others were affiliated with MSU), and approximately 70 individuals who appeared to be middle aged or older. In other words, the crowd was younger than I expected. Of course, many of the younger attendees may have been company reps, etc. Over the course of the day, I also got the impression that a number of the growers were managing very large enterprises. Thus, there is a possibility that the representativeness of this "sample" may have been similar to that of the focus groups and survey we conducted.

The first event was a panel discussion with four producers. I don't know how where they were selected. One thing that I noted is that two of the producers noted that not only were their herbicide costs increasing (by a factor of 2 to 3 times over the past ten years), but that they were now employing labor on some of their fields to pull/chop weeds. This did not appear to shock anyone in the audience. One grower noted that while "everything is budget based on my operation . . . but when you deal with Palmer you have to throw the budget out the door." A different growers noted, "if Liberty fails . . ."

Most of the rest of my morning was spent listening to conversations at about half a dozen tables. What I heard confirmed what Katie and I heard in our focus groups and what was

revealed in our survey. There is a widespread perception and recognition of the problem of weed resistance. Knowledge of the existence of weed resistance was not an issue, although some folks talked about “they” and “them” (i.e. neighbors) who did not recognize the problem. Whether or not this perception of “them” is accurate, and whether the “them” are “different” (smaller size farms, etc.) was not addressed.

The issue I DO see appears to be with hope in a new MOA or new chemistry. This was a common theme in the breakouts and in some of the reports from the tables. There appears to be a widespread belief that there is still “low hanging fruit” in terms of developing “new chemistries.” There are clearly those who believe that part of the problem may be that the EPA is using “politics” and not “science” to prevent the release of new chemistries. I got a “vibe” that some folks hope that EPA will change soon (wink, wink, nudge, nudge). If those new chemistries aren’t forthcoming soon, there are going to be some frustrated folks out there. It may be that WSSA has some educating to do about what the reasonable expectations are for new MOAs and chemistries.

One person talked about the need to develop seeds that would enable the pairing of Dicamba with Liberty, and there were certainly those hoping for more triple stacked varieties. There was no discussion about how the use of such a technology could affect weed resistance in the future.

There were a couple of individuals at the tables who were willing to talk about unconventional topics. I heard two different individuals broach the subject of whether farm management size is too big. Those conversations did not go far, but the fact that there were raised is interesting to me. There was also one individual who had formally lived in Wyoming who talked about how county weed control boards work in that State, but no one picked up on that. Overall, I think that most people in attendance were NOT interested in talking about farmer collaboration.

Finally, I did have one kind of “sociological moment” while listening to people talk about drift issues (for example with Dicamba). I began to realize that glyphosate dependent weed management became popular in part because it was easy to adopt on a community level. This did not happen because people cooperated to institute the system, but rather because they did not have to cooperate (or enter into conflict) when there was a problem, say with drift. It seems to me that drift is becoming a problem, in part, because folks are beginning to use different kinds of herbicide resistance seeds (dicamba vs. liberty, let’s say), and thus drift, in an indirect way, is exposing the “community” aspect of the problem.

-- Respectfully submitted by Ray Jussaume

**APMS Midyear Board Meeting
Director of Science Policy Report
Lee Van Wychen - Jan. 12, 2017**

Trump Administration Starting to Take Shape

Washington DC is abuzz with all the activities that come about with a change in the office of the President and leadership among all the federal government agencies. As I write this, President-elect Trump has nominated all of his cabinet members except for USDA. Here's a quick look at his cabinet nominees for EPA and Interior.



Scott Pruitt, Oklahoma Attorney General, has been nominated to lead **EPA**. The 49 year old Pruitt was born and raised in Kentucky where he graduated from Georgetown College in 1990. After that, he moved to Oklahoma where he earned his law degree at the University of Tulsa specializing in constitutional law. More info about Scott can be found at:

https://en.wikipedia.org/wiki/Scott_Pruitt and <http://scottpruitt.com/meet-scott/>



Ryan Zinke, Montana's sole Representative in the U.S. House, was nominated for the position of **Interior Secretary**. The 55 year old former Navy Seal has a B.S. in Geology from Oregon and a Masters in Business Finance and Masters in Global Leadership from the University of San Diego. More info about Ryan can be found at: https://en.wikipedia.org/wiki/Ryan_Zinke and

<http://www.ryanzinke.com/>

Less Federal Regulations Expected: The last couple of years have been daunting for the sheer number of rules and regulations that have required comments from the weed science societies. In addition, lawsuits from environmental groups over endangered species act (ESA) assessments are grinding the FIFRA registration process to a halt. There is a massive effort going on behind the scenes right now to educate new leadership at EPA, Interior and Commerce on how to implement existing FIFRA/ESA Counterpart Regulations to fix this situation without the need for new regulations or statutes. They need to abandon wasteful interim approaches that EPA recently has tested for ESA analysis.

Federal Government Funded on CR Through April 28.

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

Water Infrastructure Improvements for the Nation (WIIN) Act Becomes Law

Just after midnight on December 10, 2016, the Senate passed, by a tally of 78-21 on the last vote of the 114th Congress, the Water Infrastructure Improvements for the Nation (WIIN) Act. The legislation was subsequently signed into law on December 16. The WIIN Act provides funding for water infrastructure improvements and research, reauthorizes the Great Lakes Restoration Initiative, Lake Tahoe Restoration Act, the Delaware River Basin Conservation Program, and Columbia River Basin Restoration Initiative; disburses critical resources to help communities provide safe drinking water, including grant financing to remove lead service lines; and provides funding to help communities expand water supply through investments in water recycling and desalination.

Authorization of the Aquatic Plant Control Research Program (APCRP) remains unchanged at \$40 million, with \$20 million of that designated for the watercraft inspection stations on the Columbia River in the Pacific

Northwest. The bill solidifies \$415 million in federal funding for projects in and around Lake Tahoe, which includes:

- \$150 million for fire risk reduction and forest management programs.
- \$113 million for storm water management and watershed restoration projects.
- \$80 million for environmental restoration projects.
- **\$45 million for lake-wide aquatic invasive species control** and a watercraft inspection program.
- \$20 million to recover the Lahontan cutthroat trout, a federally threatened species.
- \$5 million for project monitoring and assessment.

There is also a new pilot project authorized to control aquatic invasives in the Calfed Bay-Delta in order to improve endangered species habitat (i.e. Delta smelt). This may be the first of its kind.

The full text of the WIIN Act is at: <https://www.congress.gov/bill/114th-congress/senate-bill/612/text>

Waters of the United States (WOTUS) rule: On November 1, 2016, opening briefs to the 6th Circuit Court were filed by 31 states, plus various organizations and companies opposed to the expanded federal jurisdiction over streams and wetlands. The WOTUS rule, challengers argue in their briefs, undermines state authority. Challengers take particular issue with what they say is the federal government's disregard for whether a body of water is considered "navigable," which they say should be key in determining where it can regulate. The EPA and the Army Corps of Engineers have until Jan. 18 to file their response to the challengers in court. A 6th Circuit Court hearing is unlikely to occur before April 2017.

On Jan. 12, 2017, a pair of Senate Republicans have resurrected a resolution calling for the WOTUS rule to be scrapped. The nonbinding resolution introduced by Joni Ernst (IA) and Deb Fisher (NE), both members of the Senate Environment and Public Works Committee, would put the upper chamber on record as calling for the water rule to be withdrawn or vacated. The resolution calls the Clean Water Act "one of the most important laws in the United States," but lays out what critics see as a series of flaws with the regulatory process around the rule.

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

Invasive Mussels Found in Montana

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

Comments on Glyphosate Carcinogenicity: WSSA fully supports EPA's Cancer Assessment Review Committee's (CARC) report on glyphosate and appreciates the scientific rigor and thoroughness of the CARC's review of all available epidemiology and carcinogenicity studies. WSSA agrees with the CARC's assessment that the few studies that the International Agency for Research on Cancer (IARC) selectively chose for its glyphosate review suffered from small sample sizes of cancer cases related to glyphosate exposure and had risk/odds ratios with large data variance beyond acceptable limits. Furthermore, WSSA feels that the IARC review process for glyphosate was flawed and represents a case of gross scientific negligence. There is no question that IARC arrived at their conclusion due to their inclusion of the positive findings from a selection of studies with known limitations, a lack of reproducible positive findings, and the omission of the negative findings from credible and reliable research. Finally, WSSA commented on the ongoing importance of

glyphosate as a weed management tool and submitted information we developed surrounding some common misconceptions about glyphosate and herbicide resistance management. Comments are at: <http://wssa.net/wp-content/uploads/WSSA-comments-to-FIFRA-SAP-on-glyphosate.pdf>

Comments on Tank Mix Prohibitions. The National and Regional Weed Science Societies are especially concerned about the proposed tank mix prohibitions on new registrations due to EPA uncertainty on synergism effects on non-target organisms. <http://wssa.net/wp-content/uploads/Weed-Science-Societies-comments-on-dicamba.pdf> We have strongly urged EPA to reconsider this prohibition, as it is counterproductive for herbicide resistance management, will result in significant economic costs to growers, will increase the carbon-footprint associated with weed management, and could be, frankly, ignored by many practitioners. We have organized educational seminars at EPA by Bryan Young in June who talked about herbicide mixtures and by Greg Kruger in October who talked about droplet size and drift reduction technologies. There will be a full day symposium on these topics at the WSSA annual meeting in Tucson and many federal agency personnel will be in attendance.

Problems with EPA Worker Protection Standards (WPS) final rule. The National Association of State Departments of Agriculture (NASDA) and the Association of American Pesticide Control Officials (AAPCO) asked EPA to delay compliance of WPS revisions until Jan. 2, 2018. State lead agencies don't have the tools and financial resources necessary to effectively implement the rule changes (i.e. updated materials to train farm workers and especially to "Train-the-trainers"). EPA denied their request. Most WPS revisions kick in on **Jan. 2, 2017**. New Application Exclusion Zone (AEZ) requirements don't kick in until Jan. 2, 2018 for pesticide handlers. AEZ is the 100 feet "halo" surrounding aerial, air blast, fumigant, smoke, mist and fog application equipment, as well as spray applications using very fine or fine droplet sizes (<294 microns). AEZ is 25 feet for medium droplet sizes or larger. See: <https://www.epa.gov/pesticide-worker-safety/revisions-worker-protection-standard>

National Invasive Species Awareness Week (NISAW)

NISAW will be held February 27 to March 3, 2017 in Washington DC. Please visit www.nisaw.org for information on invasive species webinars and lunch briefings as well as a Congressional Fair on March 1 on Capitol Hill.

Invasive Species Executive Order Amended

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

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

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

Invasive Species Issues Farm Bill Task Force Team. I'm working with a group of about 20 invasive species management stakeholders to draft language for the 2018 Farm Bill. Here are a few examples:

- Adding weed treatment area designations under Healthy Forest Restoration Act
- Promoting Areawide IPM language and funding through USDA's National Institute for Food and Agriculture
- Prevent NRCS program participants from planting "invasive plant species" on conservation reserve lands

- Pilot projects for landscape-scale testing of grazing as a tool for rangeland invasive species control
- Add “invasive species” to the Foundation of Food and Agricultural Research’s list of national priorities

PSEP Stakeholder Team Funds Priority Resource Development Projects

The National Stakeholder Team for Pesticide Safety Education Program (PSEP) Funding announced projects that were funded to create additional priority educational resources to enhance the competency of pesticide applicators. The funds are meant to strengthen the EPA-recognized Land-Grant University Pesticide Safety Education Programs. More information about the National Stakeholder Team for PSEP Funding, co-chaired by Jim Burnette and Carol Somody, can be found at: www.psep.us. The three projects funded are:

1. Research on Using Modern Technology to Decontaminate Pesticide-Exposed Clothing

Colorado State University (Thia Walker) and University of Wyoming (Jeff Edwards)

Funding Amount: \$104,942

Work products:

- Published Research Results
- Factsheet - Updated Guidelines for Decontaminating Pesticide-Exposed Clothing
- PowerPoint #1 - Updated Laundry Guidelines
- PowerPoint #2 - Audience Response Questions
- PowerPoint #3 - Summary of the Research and Results
- Video - How to Launder Pesticide Contaminated Clothing
- Presentations on research results at PACT and any regional meetings upon request

2. High Quality 5 Minute Videos for Pesticide Safety, in 4 languages

Auburn University (Sonja Thomas)

Funding Amount: \$30,000

Work products:

- Video #1 - Personal Protective Equipment
- Video #2 - Routes of Entry
- Video #3 - Mode of Action
- Video #4 - Clean Up

3. Simplified, Easier to Understand Calibration/Proper Procedures for Calibration

University of Florida (Fred Fishel)

Funding Amount: \$20,000

Work products:

Four modules with frame-by-frame written and audio-narrated scripts:

- PowerPoint #1 - Calibration of Aquatic Application Equipment
- PowerPoint #2 - Calibration of Turfgrass Application Equipment
- PowerPoint #3 - Chemigation through Microirrigation
- PowerPoint #4 - Calibration of Soil Fumigant Injection Equipment

Most Common and Troublesome Weeds in Broadleaf Crops, Fruits and Vegetables

In 2016, the National and Regional Weed Science Societies conducted a survey of the most common and troublesome weeds in the following broadleaf crop categories: 1) alfalfa, 2) canola, 3) cotton, 4) fruits & nuts, 5) peanuts, 6) pulse crops, 7) soybean, 8) sugar beets, 9) vegetables-cole crops, 10) vegetables-cucurbits, 11) vegetables-fruited, and 12) vegetables-other.

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). There were approximately 200 responses from weed scientists across the U.S. and Canada. The “top 10” lists below are an aggregation of their responses, based on my interpretation of the 2016 data. For example, I chose to combine the morningglory species (ivy leaf, pitted, tall, & sharppod) into one category since their biology and management is fairly similar.

TOP 10 WEEDS in BROADLEAF CROPS, FRUITS & VEGETABLES in 2016					
Rank	Most Troublesome	*Times Listed	Rank	Most Common	Times Listed
1	Palmer amaranth	66	1	common lambsquarters	80
2	common lambsquarters	60	2	foxtail spp.	62
3	horseweed (maretail)	55	3	morningglory spp.	55
4	morningglory spp.	54	4	Palmer amaranth	53
5	waterhemp	49	5	redroot pigweed	49
6	nutsedge spp.	46	6	waterhemp	40
7	nightshade spp.	39	7	horseweed (maretail)	38
8	kochia	35	8	common ragweed	33
T9	common ragweed	33	9	barnyardgrass	31
T9	giant ragweed	33	10	velvetleaf	30

*“Times Listed” is the number of survey respondents who listed that weed as one of their top five weed species in any of the 12 broadleaf crop categories in the U.S. or Canada.

Six weed species appeared on both the “most troublesome” and “most common” lists, including Palmer amaranth, common lambsquarters, horseweed, morningglory spp., waterhemp and common ragweed. All of those weed species have documented herbicide resistance to at least two mechanisms of action in the United States, except the morningglories which have no reported herbicide resistance. Finally, as you would expect, there were no grass weed species listed as “troublesome” in the top 10 weeds in broadleaf crops. The 2016 data set is available at: <http://wssa.net/wssa/weed/surveys/>

Please stay tuned later this winter when I will be circulating the **2017 survey** for the most common and troublesome weeds in **grass crops, pastures, and turf**. (The 2018 survey will focus on aquatic weeds and natural areas).

APMS Graduate Student Research Grant Committee
January 2017 Mid-Winter Board Meeting

1. I released the RFP for the 2017 APMS GSRG in January (copy attached). The due date from proposers is April 30, 2017.
2. The 2017 RFP is rather complicated – we have co-sponsorship from APMS, MAPMS, NEAPMS, Applied Biochemists, SePRO, and UPI. It is \$30,000 per year for two years, and is specifically on Starry Stonewort.
3. My sponsor representatives are John Madsen (chair, APMS), Dick Pinagel (MAPMS), Chris Doyle (NEAPMS), Bill Ratajczyk (Applied Biochemists), Tyler Koschnick (SePRO), and Cody Gray (UPI).
4. Our final agreement is attached, and calls for two reviewers selected by each sponsor. I have not yet selected reviewers for APMS. If the board has any suggestions, I would be glad to hear them.



THE AQUATIC PLANT MANAGEMENT SOCIETY, Inc.

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

ANNOUNCEMENT

APMS GRADUATE STUDENT RESEARCH GRANT 2017

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

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

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

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

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

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

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

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

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

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

January 9, 2017

MEMORANDUM

For Potential Sponsor Boards of Directors or Decision Makers: Chris Doyle, NEAPMS President; Dick Pinagel, MAPMS President; John Madsen, APMS; Bill Rataczyk, Applied Biochemists; Tyler Koschnick, SePRO; Cody Gray, UPI

CC: Starry Stonewort RFP committee: Rob Richardson, Ryan Wersal, Chris Doyle, Mark Heilman, Chuck Boylen, Ryan Thum, Jacob Meganck, Dick Pinagel

FROM John Madsen, Chair, Ad Hoc Committee, Starry Stonewort RFP

Subject Starry Stonewort RFP and Procedure

1. The APMS BOD has approved a special 2-year RFP specifically on starry stonewort research, and Applied Biochemists, MAPMS, NEAPMS, SePRO, and UPI have all agreed to partner with APMS for those two years – aside from any obligations entailed in the current or future grant RFPs.
2. APMS will allocate \$5,000 per year for two years to this grant. Applied Biochemists, APMS, MAPMS, NEAPMS, SePRO, and UPI will allocate \$5,000 per year, for a total of \$30,000 per year for two years.
3. The grants should be reviewed based on scientific merit, potential to bring real solutions to the management of starry stonewort in the near future, and other criteria. See draft review form.
4. I propose to have a review panel of twelve judges; two judges selected by each contributing chapter or organization. Judges should have no conflict of interest with the applicants, the judges should be familiar with research (e.g., possess an advanced scientific degree), and be familiar with issues associated with aquatic plant management. The regions may opt to have the chair select appropriate judges from members of their respective chapters.
5. Reviewers should indicate to the Chair by private ballot whether each candidate proposal is qualified for the program, if the proposal is scientifically adequate, and the ranking of proposals. The Chair need not ask for quantitative scores, but these scores may assist in the event of a close decision.
6. Once the results are tabulated by the Chair, the Chair should send the results to the committee to confirm their selections. If the decision is close, the Chair may convene a teleconference to discuss the proposals.
7. If all of the representative judges of a respective chapter or national APMS vote to find that there are no suitable applicants for the grant, then that chapter does not have to obligate their contribution to this research effort.

8. The Chair should then communicate the result to the Secretary and the President of the national APMS and regional partners (NEAPMS and MAPMS) and company sponsors (Applied Biochemists, SePRO, and UPI) as early as possible. The awardee will be formally recognized at the national APMS meeting in July 2017. The student will be expected to participate in at least one APMS meeting and one chapter meeting of the partner chapters (NEAPMS and MAPMS) during the progress of the grant.
9. The agreement with the College or University should be signed by the President of APMS or designee, with the correspondence to go directly to the Treasurer or Executive Secretary. The University should invoice APMS after the first year and after the second year. Each increment should be one-half of the grant amount agreed to by the board, and included in the announcement.
10. APMS will act as the intermediary for the participant chapters.
11. Report requirements. The successful grant recipient is expected to provide an update on the research in either a student or regular presentation, with the acknowledgement that the research is supported by APMS and the regional chapters NEAPMS and MAPMS, at the annual meeting after the first or second year of the grant. The recipient is also expected to participate in at least one of the chapter annual meetings of each partner chapter (MAPMS and NEAPMS). Given that presentations at a total of at least three annual conferences (one each for the national APMS, MAPMS, and NEAPMS) exceed what is normally expected (though not unusual for many graduate students), additional travel funds may be found to support travel for one meeting. The successful applicant is also expected to provide a short update to the newsletter and webpage after the first and second year of the grant. These updates will be shared with the partner chapters.

APMS Graduate Student Grant Evaluation Form

PI:		
Title:		
Reviewer #		
Category	Score	Max points
1. Does the proposal meet the objectives of the program (20)		20
2. Scientific and Technical Feasibility (50)		
2a. Logical objectives		10
2b. Valid scientific approach		10
2c. Appropriate level of effort		10
2d. Work can be completed with time and resources allotted		10
2e. Statistically sound and valid analyses		10
3. Investigator and Resource Qualifications (10)		
3a. Faculty advisor qualifications		5
3b. Adequate facilities and equipment		5
4. Results will be relevant to the management of starry stonewort in the near future		20
Total		
		100

December 18, 2016

APMS Statement/Press Release Regarding Recent Florida Algal “Blooms”

Recently, factors that could be considered a “perfect storm” resulted in a massive algal “bloom” in south Florida. The character, intensity, and duration of that extensive growth of algae prompted declaration of the impacted counties as disaster areas. When an event such as this occurs, a rush to the “blame game” ensues. Scientists are well aware that our ability to accurately predict the onset of an algal “bloom” is severely limited as the causes are multifaceted and there are usually several moving parts. If the water resource that is impacted by the algal bloom is providing a critical service such as potable water supply, irrigation water for expensive crops, or an industrial water supply, then water resource managers may be compelled to intervene. If these managers have no plan, quite often the reaction is to scramble around attempting to assemble a plan until they realize that they should have developed a plan in advance of the onset of a bloom. The recent advent of the Zika virus in Florida is an analogous situation.

As experienced scientists and practitioners recognize, dealing with an algal ‘bloom’ like this one is best approached in a tiered fashion. The first step is the “triage” phase. In the triage phase, initial actions are intended to manage exposures of people, their domestic animals and other animals such as threatened and endangered species to prevent their injury or mortality. We have also learned that crops need protection from exposures of blooms producing toxins. Concepts and practices such as prevention, control, and avoidance are important at this stage. If the algal “bloom” is massive, and the affected area is concomitantly large, usually limited resources are focused on management units in the affected area that are prioritized by the critical services that they provide (e.g. potable water, swimming, boating, habitat, etc.). Stakeholders need to be engaged (ideally well before the algal “bloom” occurs) for decision making as well as communication. Simply doing nothing (e.g. monitoring for toxins and declaring areas “unsafe” or “off limits”/“closed”) does little to remedy the situation.

The tools (mechanical, chemical, etc.) for management of algae in critical water resources are limited but proven. Scientists and practitioners keep up with current knowledge regarding efficient and effective use of those tools. Through adaptive water resource management, the most efficient approaches can be brought to bear on an algal “bloom”. The early step of problem definition is crucial: the algae and toxins are identified as are other factors that may influence the outcome of a strategy to deal with an algal “bloom” or a recurring “bloom”. Performance goals must be established. An approach or approaches (tactics) need to be identified and confirmed – both for the short term as well as for the long term. The approaches

are implemented and monitored for performance (including effectiveness). Sufficient information is gathered to adjust approaches as needed to increase efficiency and efficacy. Information from this work is widely communicated to ensure that the science and practice are moving forward. Post-triage activities can include efforts to support prevention and long-term control where appropriate. These efforts need to be expended with management of stakeholder expectations. The outcomes of long-term control efforts may not be realized or manifested for decades or even hundreds of years. And these long-term efforts also may be undone by extreme weather events (e.g. hurricanes), floods or droughts.

Pre-bloom, a strategy or plan can be developed to manage algal blooms based on data, the stakeholder inputs, available resources, etc. Priorities can be established and required permits, contracts, etc. can be put into place. When a bloom occurs (not if it occurs), the plan can be implemented with appropriate monitoring so the plan can be modified as necessary. Importantly, the failure to plan or to execute a plan often results in increase risks for people, their possessions and other resources that may be adversely affected by the bloom directly or by production of secondary compounds such as toxins.

The APMS supports....