

The Aquatic Plant Management Society



**Midyear Board Meeting
Hampton Inn, Orlando Airport
Orlando, Florida
January 28, 2020**

Board Book Table of Contents

January 28, 2020

Orlando, Florida

i Agenda

iv Board / Chairs / Representatives

Meeting Minutes	1
Report of the President.....	20
Report of the Treasurer.....	29
Report of the Secretary.....	39
Report of the Editor.....	44
Awards Committee.....	45
Bylaws and Resolutions Committee...	46
Education and Outreach Committee...	47
Exhibits Committee.....	55
Finance Committee.....	56
Legislative Committee.....	66
Meeting Planning Committee.....	67
Membership Committee.....	74
Nominating Committee.....	
Past Presidents' Advisory Committee.	
Program Committee.....	78
Proposal Review Committee.....	79
Publications Committee.....	
Regional Chapters Committee.....	
Scholastic Endowment Committee.....	
Strategic Planning Committee.....	83
Student Affairs Committee.....	
Website Committee.....	
AERF.....	
BASS.....	91
CAST.....	
NALMS.....	95
RISE.....	98
Women of Aquatics.....	99
WSSA / Science Policy.....	100 / 103
Old Business.....	
New Business.....	

AGENDA
Aquatic Plant Management Society, Inc.
Board of Directors Meeting
Hampton Inn Orlando International Airport
Orlando, Florida
January 28, 2020

~ Breakfast served as part of the hotel stay, and meeting attendees should eat prior to heading to the Board meeting room (signage at hotel will note location)

8:00 am Call to Order

10:00 am Morning Break

12:00 pm Lunch - Board Room

12:45 pm Reconvene Board Meeting

2:45 pm Afternoon Break

4:00 pm Adjourn

8:00 am CALL TO ORDER - President Mark Heilman

ROLL CALL - Secretary Jeff Schardt

Seating of Proxies

Recognition of Visitors

MINUTES - Approval of Minutes from the July 14 & 17 2019 Board of Directors Meetings and July 15, 2019 Annual Business Meeting held at the Doubletree San Diego Mission Valley

REPORT OF THE PRESIDENT – Mark Heilman

REPORT OF THE TREASURER - Jeremy Slade

REPORT OF THE SECRETARY - Jeff Schardt

REPORT OF THE EDITOR - Jay Ferrell

Approval of Officer Reports

COMMITTEE REPORTS

Membership – Marc Bellaud (moved to start of reports due to Marc’s schedule)

Awards - Jay Ferrell

Bylaws and Resolutions - (chair open as of 1/19/20)

Education and Outreach - Brett Hartis

Exhibits - Dean Jones

Finance - Andy Fuhrman

Legislative - Rob Richardson

Meeting Planning - Rob Richardson

Nominating - Craig Aguillard

Past President’s Advisory - Craig Aguillard

Program - Ryan Wersal

Proposal Review - Craig Aguillard

Publications - Jay Ferrell

Regional Chapters - Ryan Thum

Scholastic Endowment - Tom Warmuth

Strategic Planning - Mark Heilman

Student Affairs - Samantha Sardes

Web Site - Ken Manuel

SPECIAL REPRESENTATIVE REPORTS

AERF - Carlton Layne

BASS - Jeremy Slade

CAST - Lyn Gettys

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

The following topics intend to build off past BoD discussions in July and current committee reports including status of Strategic Plan

- Enhancing the Netherland APMS GSRG grant support and steps to secure tax-exempt status for donations for the grant program
- Regional chapter interactions – short-term/long-term actions to build synergy
- APMS marketing plan – social media improved but what are other steps

NEW BUSINESS

These topics may be addressed during committee report process or tabled to this point as New Business

- Conference sponsorships
 - International Symposium on Aquatic Plants (Hofstra proposal)
 - National Invasive Species Awareness Week (Van Wychen proposal)
 - International Weed Science Congress (Heilman...proposal forthcoming if conference organizers respond by 1/28)
- Follow-up with any new items from committee reports

ADJOURN - President Mark Heilman

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2019 - 2020 Board, Committee Chairs and Special Representatives

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2019 - 2020 Committee Chairs and Special Representatives

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Awards	Jay Ferrell	352-392-7512 jferrell@ufl.edu
Bylaws and Resolutions	James Leary	808-352-8774 learyj@ufl.edu
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THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting July 14, 2019 DoubleTree San Diego Mission Valley San Diego, California

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Sunday, July 14, 2019 at the DoubleTree San Diego Mission Valley Hotel, San Diego, California. President Craig Aguillard called the meeting to order at 8:01 a.m., PDT.

Officers and Directors present at roll call were:

Craig Aguillard, President
Mark Heilman, President Elect
Jeremy Slade, Treasurer
Jeffrey Schardt, Secretary
Jason Ferrell, Editor
Scott Nissen, Director
Todd Olson, Director
Deborah Hofstra, Director
Marc Bellaud, Director
Amy Ferriter, Director
Mirella Ortiz, Student Director

There were no Proxies.

Others in attendance during all or portions of the meeting:

Gerald Adrian, BASS Representative
Andy Fuhrman, Finance Committee Chair
Dean Jones, Exhibits Committee Chair
Ken Manuel, Web Site Committee Chair
Sam Sardes, Student Affairs Committee Chair
Bill Torres, Meeting Planning Committee Chair
Lee Van Wyche, WSSA Science Policy Director
Sherry Whitaker, APMS Registration

MINUTES

After Roll Call, President Aguillard asked for approval of the Minutes from the January 29, 2019 Board Meeting held in San Antonio, Texas.

Jay Ferrell motioned the Board to approve the Minutes as submitted. Scott Nissen seconded the motion. The motion passed without dissenting vote.

PRESIDENT'S REPORT

President Aguillard advised the Board that he attended and presented APMS updates at several Chapter Annual Meetings, including FAPMS, MidSouth, and TAPMS. Aguillard advised that Student Affairs Committee Chair Chris Mudge stepped down and was replaced by Sam Sardes, a recent APMS student member. Bill Torres provided interim Meeting Planning Chair services after the passing of Chair Tommy Bowen.

TREASURER'S REPORT

Treasurer Jeremy Slade provided an update of APMS General and Scholastic Accounts as of July 2, 2019:

General Accounts

Checking (general operating)	\$148,724.22
Investment (emergency)	\$263,977.98 (incl. \$120,000 reserve funds)
Total General Accounts	\$412,701.20

Scholastic Accounts

Checking	\$873.08
GSRG	\$146,899.41
Total Scholastic Accounts	\$147,772.49

Total General and Scholastic Accounts \$560,474.69

Slade advised that AERF sent a check in the amount of \$30,000 to APMS at the request of Mike Netherland from an account Mike had with AERF. That check is currently deposited in the General Account. Slade intends to move the \$30,000 to the Scholastic Account where it can only be used to support the Graduate Student Research Grant.

Slade reported an annual income of about \$70,000 for 2019, mostly attributable to investment income, Annual Meeting income and the \$30,000 donation from AERF. Slade, in working with Meeting Manager Bill Torres estimates that the cost for the 2019 Annual Meeting will be approximately \$70,000. That in combination with the \$30,000 transfer to the Scholastic Endowment Account and journal expenses, annual membership dues (AERF, CAST, RISE, WSSA), APMS annual audit report, stipends to the Secretary and Editor, and various fees including credit card, web maintenance, tax audit, etc., will considerably reduce the General Account total shown above.

After John Gardner stepped down as Finance Committee Chair, the Board approved Andy Fuhrman to take over these duties. Slade will work with Secretary Schardt, Andy Fuhrman and the State Bank to get authorization for Fuhrman to make financial decisions for APMS.

Slade advised that the investment accounts are still split ~50/50 equities/fixed income and have performed well. He asked the Board for input on future investment breakdown. Slade has submitted annual audit information and is waiting for results. Audit expense is about \$6,000.

SECRETARY'S REPORT

Secretary Jeff Schardt advised that it has been difficult keeping annual membership dues up to date. Schardt sent 3 email notices to members to pay current year dues on January 1 and then again on February 12 and March 14. There were still 60 2018 members that had not paid. A letter and invoice were sent to these members on May 15. Fifteen responded to the letter. Twenty-eight new members have paid 2019 APMS membership dues; 11 from the Western Region. As of the report, 32 people who are not APMS members have registered for the 2019 Annual Meeting and will therefore receive APMS membership for 2020. There are 25 Sustaining members, 26 Honorary members, and 32 Student members for a total 2019-2020 APMS Membership of 263.

Other duties completed by the Secretary since the 2019 Midyear BOD meeting include: writing letters to Sustaining Members to renew their support, organizing the assembly, printing and shipping the Annual Meeting Program, Publishing the March and June Newsletters, and updating APMS information on the web site, especially Annual Meeting information and archive Annual Meeting photos.

EDITOR'S REPORT

Editor Jay Ferrell reported that the July 2019 Journal has been approved with six papers and 1 note and will be mailed in July. Submissions and total articles published are consistent with previous years, in the low 30s per year.

Ferrell advised that Dr. John Madsen has requested that APMS publish a special Journal issue to capture the efforts of the Delta-Region Areawide Aquatic Weed Project in California. This project is coming to an end. There will be approximately 12 papers. Authors have agreed and USDA will cover production costs through an increase in page charges. Madsen will work as the Associate Editor so there will be no additional workload for APMS. The target date for publication is July 2020 and will be co-mailed with the regular July JAPM issue.

Ferrell reviewed discussion from the previous Board meeting regarding finding a new publisher for the Journal of Aquatic Plant Management (JAPM) or combining with another Journal to reduce cost, increase JAPM impact factor, and article submissions, etc. Impact factor is a function of the number of times an article is cited. There was consideration of merging with Invasive Plant Science and Management (IPSM) Journal; an affiliate of WSSA. JAPM is so small, it is not tied in well to article search engines. Lower exposure translates to lower article submissions by authors who need to publish, resulting in lower relevance of the JAPM outside of the Society's membership.

Marc Bellaud motioned the Board to accept the Officer Reports. Mark Heilman seconded the motion. The motion passed without dissenting vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: Chair Jay Ferrell advised that awards have been printed, shipped and received at the Hotel. The person nominating a member for an award will present the award to the recipient at the Banquet. Otherwise, Jay Ferrell will present.

Bylaws and Resolutions Committee: Schardt advised that the Board and General Membership approved a revision to the Bylaws on July 28, 2018 whereby the Proposal Review Committee shall review all proposals submitted to the Society in excess of \$5,000. The following year (July 17, 2017) the Board voted that the Proposal Review Committee review all externally submitted funding requests, regardless of the amount. This appears to conflict with the Bylaws. The Board agreed that all externally received requests for APMS funding should be vetted by the Proposal Review Committee. Accordingly, Schardt offered the following motion and proposed language to amend the Bylaws.:

Jeff Schardt motioned the Board to amend Article XIII, No. 12. of the Bylaws to reflect the Board's desire for the Proposal Review Committee to review and make recommendations to the Board for all external proposals submitted to APMS that include APMS funding. Scott Nissen seconded the motion. The motion passed without dissenting vote.

ARTICLE XIII. COMMITTEES and REPRESENTATIVES

12. Proposal Review Committee. This Committee shall be responsible for reviewing and making recommendations to the Board for all proposals externally submitted funding requests / proposals to the Society equal to or in excess of \$5,000, regardless of the funding amount, 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.

Education and Outreach Committee: Chair Brett Hartis provided information on TVA and Florida Plant Camps. TVA Plant Camp is moving forward; expanding to 24 teachers and a four-day program. Budget cuts may change the way Florida FWC provides outreach and information about its aquatic plant management program.

Hartis provided six iterations of a new APMS logo as directed by the Board. Discussion ranged from don't change the logo to provide a stylized or clean logo. The logo does not need to demonstrate all the issues addressed by APMS. It would get too busy. A simple or "clean" logo would lend itself better to print in small formats; e.g. shirts, hats. The Board recommended that Hartis ask the designers to modify logo #6, a stylized design that pays homage to water hyacinth.

Exhibits Committee: Chair Dean Jones informed there are 26 Sponsors and 18 Exhibitors for the 2019 Annual Meeting (three not-for profit). Total income from Sponsors and Exhibitors is \$71,789. By comparison, the total was \$70,500 for the 2018 meeting in Buffalo and \$90,000 for the 2017 meeting in Daytona. Twenty Sponsors contributed \$55,283 to the 2018 meeting; more sponsors than 2017 but slightly less funding.

Finance Committee: Chair Andy Fuhrman advised that returns were about 10% for the General and Scholastic Accounts. The General Account grew by \$25,367 and the Scholastic Account by ~13,679. Fuhrman will meet with Slade after the meeting to review the accounts and make recommendations at the Midyear BOD meeting. APMS is equally invested in Equities and Fixed Income Securities. Equities performed ~17.5% and Fixed Income ~4.5% over the previous six months.

Legislative Committee: No report

Meeting Planning Committee: Chair Bill Torres advised that the Hotel gave APMS \$4,100 to hold the President's Reception offsite to reduce logistics conflicts with another group meeting at the Hotel. Therefore, the President's Reception was moved to the Wood Ranch BBQ venue next door to the DoubleTree. Torres advised that the room block was surpassed (550 room nights) and is the largest since Torres has been involved.

Torres reported that the room block for the 2020 meeting in San Antonio at the Hyatt Riverwalk is 500 at a rate of \$169/night. The food and beverage commitment is \$30,000 in San Antonio vs. \$25,000 in San Diego. APMS usually spends ~\$50,000 for food and beverage. The room rate for New Orleans in 2021 is also \$169/night with a food and beverage commitment of \$40,000.

The Meeting Planning Committee looked at 14 venues in South Carolina for the 2022 meeting. Torres did site visits in Charleston, Columbia and Greenville. There is a lot of construction in Charleston and prices are high with small meeting space downtown. Greenville has nearly 100 restaurants and pubs on either side of the two potential hotel sites that could accommodate APMS. The Hyatt Regency seemed to provide the best fit for APMS regarding price, space, and availability. Greenville / Spartanville Airport is easily accessible to the rest of the country and the Hyatt provides an airport shuttle.

Bill Torres, representing the Meeting Planning Committee, motioned the Board to approve the Hyatt Regency in Greenville, SC for the July 17-20, 2022 APMS Annual Meeting venue. Todd Olson seconded the motion. The motion passed without dissenting vote.

Membership Committee: Chair Mark Heilman had no formal report. Heilman informed that he no longer had time to serve as Chair and that Marc Bellaud agreed to serve as Chair.

Nominating Committee: Chair John Rodgers had no additional information for the 2019-2020 Slate of Officers and Directors that was approved at the January 2019 Midyear BOD meeting. The Slate (below) was published in the June Newsletter, more than 30 day prior to the 2019 Annual Business Meeting.

2019 Slate of Officers and Directors

Position	Nominee	Affiliation	APMS Region
Vice President	Ryan Thum	Montana State University	Western
Editor	Jason Ferrell	University of Florida	Florida
Secretary	Jeffrey Schardt	Florida FWC (Retired)	Florida
Director	Lyn Gettys	University of Florida	Florida
Director	Chris Mudge	U.S. Army Corps of Engineers/LSU	MidSouth

Past President's Advisory Committee: Chair John Rodgers did not have a report. He could not attend the Annual Meeting and asked John Madsen to lead discussion at the Luncheon.

Program Committee: Chair Mark Heilman reviewed Program Session Moderators to ensure all would be in attendance. A special session to honor Mike Netherland on Monday morning will be videotaped by a U.S Army Corps of Engineers employee.

Proposal Review Committee: Schardt provided input for Chair John Rodgers who could not attend. WSSA is upgrading their Abstract Submission System for all entities that use the system. APMS could provide a portion of this upgrade or find a new system exclusively for APMS at a much higher price. Estimates for developing a new submission system could approach \$30,000. Schardt has provided input to APEX on upgrades that would facilitate APMS abstract submittal and Annual Meeting Program assembly. While the proposal has not yet been received, it should come soon.

Rob Richardson motioned the Board to approve up to \$2,500 for APEX to upgrade the WSSA Abstract Submission System. Jeremy Slade seconded the motion. The motion passed without dissenting vote.

Publications Committee: Chair Jay Ferrell reported that APMS membership is split on continuing the Journal publication inhouse vs. merging with an outside entity. Ferrell recommended no changes to the Journal at this time.

Regional Chapters Committee: No report. Chair Ryan Wersal could not attend the Annual Meeting but will lead discussion for the Regional Chapters Luncheon via teleconference.

Scholastic Endowment Committee: Chair Tom Warmuth advised that there are \$4,200 donated for raffle tickets. There are also a handful of silent auction items.

Strategic Planning Committee: Chair Mark Heilman provided updates on the four Goals of the Strategic Plan. Under Goal 1, Heilman reiterated that the objective to reach a stand-alone GSRG and perhaps issue annually still needs work and now is a good time to pursue this goal.

Regarding membership issues under Goal 3, Heilman will present a paper on HABs at the 2019 NALMS Annual Meeting from an APMS perspective. Heilman is proposing a free one-year APMS membership for NALMS members who are interested in experiencing APMS for a year.

There was considerable discussion related to Goal 2, Marketing and Outreach, especially related to social media. APMS has contracted with a company to build a social media infrastructure. APMS needs to provide the content and the objective; e.g. to inform or to debate APMS members or general public. The consensus was that APMS needs to oversee the content. The Board also agreed that consistency is paramount, and that information needs to be posted on a regular basis.

The Board agreed that contracting or providing a stipend with a person would establish a responsibility or accountability to keep the information flowing. Amy Giannotti was identified as a person who is qualified regarding aquatic plant management content and social media logistics.

Student Affairs Committee: Chair Sam Sardes reported there are 17 students presenting 13 oral papers and 7 posters at the Annual Meeting and representing eight universities. Eight students are first-time presenters at APMS. The Student Director will be elected by the students prior to the Awards Banquet to announce at the Banquet.

Website Committee: Chair Ken Manuel advised the web site pages that are most often accessed are 1) Journal, 2) Annual Meeting information, and 3) Newsletter. Manuel concluded that the web site is providing a good service for members and asked where we can make improvements.

AERF: Gerald Adrian presented information for Representative Carlton Layne. AERF organized a field trip in Indiana and Michigan for pesticide registration personnel from U.S EPA (6) and five from Canada including three from the Canada Pest Management Regulatory Agency. Canada is interested in reviewing additional herbicide compounds / products for use in Canadian waters. Additionally, three EPA representatives will attend the 2019 APMS Annual Meeting. APMS comped their registrations.

BASS: Gerald Adrian reminded the Board that APMS has sponsored the BASS Conservation Award and Conservation Summit Director's Luncheon for several years. Each are funded at \$1,500. Adrian is proposing that APMS continues to sponsor these events, along with AERF for a total of \$3,000 each year. These two functions will occur in alternate years from now on. There was discussion that BASS needs to include an APMS reviewer on the Conservation Award Selection Committee and that BASS provides time for an APMS speaker at the Conservation Summit Director's Luncheon. The Board agreed in concept to this strategy and will await the formal funding request from BASS.

BASS wrote an article about the necessity of controlling invasive plants in response to the 2019 FL FWC pause in aquatic plant control.

Adrian announced that he is retiring and will step down as BASS liaison. Jeremy Slade agreed to take over as BASS liaison.

CAST: No report.

NALMS: No report.

RISE: No report.

Women of Aquatics: Amy Ferriter presented information for Representative Amy Kay. There are now 44 members of WOA with 435 people that follow WOA via social media.

WSSA/Science Policy: Lee Van Wychen reported that there will be a continuing resolution for the federal budget, continuing funding for the U.S Army Corps of Engineers aquatic plant research and control funding. VanWychen provided the following information on glyphosate and EPA:

EPA Seeks Comments on Glyphosate Proposed Interim Registration Review Decision (PID): In the ongoing registration review of glyphosate, EPA issued a PID in May so that it

can move forward with aspects of the registration review case that are complete and implement interim risk mitigation. In 2017, EPA published comprehensive ecological and human health risk assessments for glyphosate. No human health risks were identified. The agency determined that glyphosate is not carcinogenic to humans. Potential ecological risks were identified for terrestrial and aquatic plants, birds, and mammals, primarily from exposure to spray drift.

In this PID for glyphosate, EPA is proposing various spray drift management measures (e.g., release height, droplet size, and wind speed restrictions) to reduce off-site exposure to non-target wildlife. EPA is also proposing weed resistance management labeling (e.g., information on mode of action, scouting instructions, and reporting instructions for weed resistance) and certain labeling clean-up/consistency efforts to bring all glyphosate labels up to modern standards.

Proposed Statements for Glyphosate Aquatic Use: In the PID for glyphosate, EPA is proposing to update the environmental hazards statements for aquatic use products to be consistent with modern standards and to be in line with newer pesticide labels. In addition, EPA is proposing an additional statement under "directions for use" for aquatic use labels to instruct users to apply in strips to help avoid oxygen depletion when emerged weed infestations cover the total surface area of an impounded water body (see table below). These statements already appear on some newer labels and the agency is proposing to apply these statements to all glyphosate labels.

VanWychen also provided the following legislative information on HABs:

Protecting Local Communities from Harmful Algal Blooms Act (HR 414): This legislation would amend the Stafford Act to include algal blooms in the definition of a "major disaster". The Stafford Act created the system in place today where the President can issue a disaster declaration or an emergency declaration which triggers financial and physical assistance through FEMA. HR 414 currently has 14 bipartisan co-sponsors, led by Rep. Francis Rooney (FL-19).

The budget has been cut in half for the National Invasive Species Council. The Invasive Species Advisory Committee is on hiatus.

Todd Olson motioned the Board to approve the Committee and Special Representative Reports. Jeremy Slade seconded the motion. The motion passed without dissenting vote.

Old Business:

1. Operating Manual Updates

John Rodgers, as Immediate Past President, reviewed / revised the Operating Manual and comments that had been drafted but not incorporated for several years. Schardt reformatted the information and added new forms to the content that Rodgers had revised. The Operating Manual is on the APMS web site under Members Only / Documents. Comments need to be forwarded to Craig Aguiard as one of his upcoming duties as Immediate Past President.

New Business:

1. Review Cost/Benefit to APMS associated with annual memberships with CAST, AERF and RISE, and annual stipend to Science Policy Advisor

As part of the treasurer's responsibilities, Jeremy Slade reviews annual expenditures including contracts and memberships that APMS has entered. Discussion centered on the benefit APMS is receiving for annual memberships with AERF (\$1,000), CAST (\$1,500), and RISE (\$575). From 2006-2010, WSSA annual dues were about \$5,000. For the past two years dues increased to about \$6,200 and WSSA has advised there will be an annual 3% increase. For 2019, APMS will pay ~\$9,500 in dues. Slade wanted the Board to understand these costs and advise if these memberships are providing service to APMS commensurate with the cost.

The Board is particularly questioning the benefit of CAST and RISE for APMS or the field of aquatics in general. APMS has been waiting for CAST to move forward with a Harmful Algae Bloom Commentary Paper. APMS would need to pay ~\$15,000 for CAST to produce the paper if authorized. APMS could produce the paper and post on the new social media effort. APMS pays AERF a membership fee each year and then AERF gives back a level of funding in paying for items such as travel or registrations for regulatory personnel to attend meetings. This may be a break-even relationship.

WSSA provides services to APMS through efforts of the Science Policy Director. Six Societies, including APMS support the Science Policy Director salary. The Board could not identify current or recent benefits from CAST or RISE or understand why the memberships began with these entities. The Board will ask the Past President's if they recall the reasons for, and relevance now, of the annual memberships, especially with CAST and RISE and report back to the Board at the post-conference BOD meeting.

2. Meeting Planning Chair

The Board discussed appointing an APMS member as Chair of the Meeting Planning Committee. Bill Torres is under contract as a private entity to provide meeting management services. Torres has picked up the Meeting Planning Committee Chair responsibilities after the passing of Tommy Bowen. Torres has agreed to step down as Chair. Some people are being considered and an appointment will be made at the post-conference BOD meeting.

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

The Board meeting adjourned at 1:42 p.m., PDT.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Annual Business Meeting July 15, 2019 DoubleTree San Diego Mission Valley San Diego, California

The Annual Business Meeting of the Aquatic Plant Management Society, Inc. was held on Monday, July 15, 2019. President Craig Aguillard called the meeting to order at 4:15 p.m. PDT.

MINUTES

The Minutes of the 2018 Annual Business Meeting held in Buffalo, New York on July 16, 2018, as well as Minutes from the previous eleven 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 Craig Aguillard had nothing to add beyond information presented during his Presidential Address earlier in the day.

TREASURER'S REPORT

Treasurer Jeremy Slade informed the members that there are over 200 people in attendance at the 2019 Annual Meeting. Slade then summarized the account balances; provided in the table below. Slade advised that these figures are as of July 2, 2019 and do not include payments for the 2019 Annual Meeting (~\$75,000) or income from the Annual Meeting. Slade advised that the APMS finances were audited in 2019 as they are each year and were found to be in order. He also informed the Membership that the APMS financial books are available for inspection at the Registration Desk throughout the meeting.

Treasurer Jeremy Slade provided an update of APMS General and Scholastic Accounts as of July 2, 2019:

General Accounts

Checking (general operating)	\$148,724.22
Investment (emergency)	\$263,977.98 (incl. \$120,000 reserve funds)
Total General Accounts	\$412,701.20

Scholastic Accounts

Checking	\$873.08
GSRG	\$146,899.41
Total Scholastic Accounts	\$147,772.49

Total General and Scholastic Accounts \$560,474.69

Slade advised that AERF sent a check in the amount of \$30,000 to APMS at the request of Mike Netherland from an account Mike had with AERF. That check is currently included in the General Account balance shown above. Slade intends to move the \$30,000 to the Scholastic Account where it can only be used to support the Michael D. Netherland Graduate Student Research Grant.

SECRETARY'S REPORT

Secretary Schardt reminded the membership that regular delegate registration to the 2019 Annual Meeting includes APMS membership for 2020. APMS picked up 43 new members through this effort; mostly from the Western Region.

EDITOR'S REPORT

Editor Jason Ferrell advised the Membership that the *Journal of Aquatic Plant Management* (JAPM) remains on-time with the July 2019 issue at the printer and on schedule to be shipped in July. Ferrell advised that the Delta Region Areawide Aquatic Weed Research Project is ending. Dr. John Madsen has requested that APMS publish the research generated by the Project in a special edition of the JAPM. The issue will contain approximately 12 articles and will be published in tandem with the regular July 2020 issue of the Journal.

Ferrell advised that he has been in contact with WSSA for the past few years to see if it would make sense to join with the *Journal of Invasive Plant Management and Science*. After a lengthy review of the pros and cons and discussions with APMS members, Ferrell has decided that the consensus of the membership is to make no changes to the publication of the JAPM at this time.

Toni Pennington motioned to accept the Officer Reports. Linda Nelson seconded the motion. The motion was approved without dissenting vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: Chair Jay Ferrell thanked the membership for their nominations of the people who will receive these awards at the July 16 Awards Banquet.

Bylaws and Resolutions Committee: Chair Vernon Vandiver was not present. There was no business related to the Bylaws to be voted on by the membership.

Education and Outreach Committee: Chair Brett Hartis was not present. Secretary Schardt reported that Florida Plant Camp was held in June. During the past 14 years, 325 teachers have attended FL Plant Camp and have subsequently reached about 235,000 students. TVA Plant Camp has continued to expand and will be held on Lake Guntersville from September 11-14, 2019. APMS has been a longtime supporter of FL Plant Camp, and has supported TVA Plant Camp since its inception a few years ago.

Exhibits Committee: Chair Dean Jones thanked the APMS Exhibitors and Sponsors. There were 26 Exhibitors at the meeting and 18 meeting Sponsors.

Finance Committee: Chair Andy Fuhrman advised that overall returns were about 10% for the General and Scholastic Accounts. The General Account grew by ~\$25,367 and the Scholastic Account by ~\$13,679.

Legislative Committee: No Report.

Meeting Planning Committee: Chair Bill Torres asked for comments to improve future meetings. Torres advised that turnout was great for the meeting. The room block was for 490 room nights – 550 were sold. This high turnout also helps in future bookings. Hotels see that APMS is a solid organization with good attendance; leading to reduced room rates.

Torres provided the following summary for upcoming Annual Meetings:

Year	Site	Room Rate
2020	San Antonio, TX	\$169
2021	New Orleans, LA	\$169
2022	Greenville, SC	\$159

Membership Committee: Chair Mark Heilman introduced the next Chair, Marc Bellaud. Heilman asked the membership to please sign up for the Committees.

Nominating Committee: Chair John Rodgers was not in attendance. President Aguillard read the slate of candidates for 2019-2020 Officers and Directors 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.

Position	Nominee	Affiliation	APMS Region
Vice President	Ryan Thum	Montana State University	Western
Editor	Jason Ferrell	University of Florida	Florida
Secretary	Jeffrey Schardt	Florida FWC (Retired)	Florida
Director	Lyn Gettys	University of Florida	Florida
Director	Chris Mudge	U.S. Army Corps of Engineers/LSU	MidSouth

Aguillard asked if there were nominations from the floor. There being none, Aguillard asked for a motion to close nominations.

Samantha Sardes motioned to close nominations for Officers and Directors. Linda Nelson Seconded the motion. The motion passed without dissenting vote.

Aguillard then asked for a motion to approve the Slate of Delegates.

Linda Nelson motioned to accept the Slate of Delegates as recommended by the Nominating Committee. Amy Kay seconded the motion. The motion passed without dissenting vote.

Past President's Advisory Committee: No report.

Program Committee: No report.

Proposal Review: No report.

Publications Committee: No report.

Regional Chapters Committee: No report.

Scholastic Endowment Committee: No report.

Strategic Planning Committee: Chair Mark Heilman reported on the status of goals from the 2017 Strategic Plan. We are now at the half-way point of the 5-year plan. Heilman advised that Society finances under Goal #1 are in good shape. However, there is a desire to offer the Michael D. Netherland Graduate Student Research Grant every year. This will require significant effort to increase the balance in the Scholastic Endowment Account.

Under Goal #2, Marketing and Outreach, Heilman advised to look for an APMS social media effort to begin soon.

Student Affairs Committee: Chair Sam Sardes reported that there are 17 students presenting at the Annual Meeting, representing eight universities. Students attended the Meet-and-Greet on Sunday and the Student Affairs Luncheon on Tuesday with guest speakers Bo Burns, Kurt Getsinger, Dan Kenny and Dean Jones.

Website Committee: No report.

AERF: No report.

BASS: Representative Gerald Adrian reported that after being liaison with BASS for about 18 years he will retire in 2019, turning over this duty to Jeremy Slade. APMS and AERF will continue to sponsor the BASS Conservation Award, and the Conservation Director's Luncheon. Each of these events are held every other year. APMS contribution is \$1,500 for each event. APMS has a member on the judging panel for the Conservation Award and has a speaker at the Conservation Director's Luncheon.

CAST: No report.

NALMS: No report.

RISE: No report.

Women of Aquatics: Representative Amy Kay reported that WOA became a non-profit organization in March 2017. WOA now has a three-level membership tier with a total of 44 members. The WOA web site is now live.

WSSA: No report.

Science Policy Director: Lee Van Wychen advised about a new game-based educational effort called Weed Bingo. 42 species are represented in the cards.

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

Old Business: None.

New Business: None.

John Madsen motioned to adjourn the Annual Business Meeting. Marc Bellaud seconded the motion. The motion passed without dissenting vote.

The meeting adjourned at 5:20 p.m. PDT.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting

July 17, 2019

**DoubleTree San Diego Mission Valley
San Diego, California**

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Wednesday, July 17, 2019 at the DoubleTree San Diego Mission Valley Hotel, San Diego, California. President Mark Heilman called the meeting to order at 12:54 p.m., PDT.

Officers and Directors present at roll call were:

Mark Heilman, President
Ryan Thum, Vice President
Craig Aguillard, Immediate Past President
Jeremy Slade, Treasurer
Jeffrey Schardt, Secretary
Jason Ferrell, Editor
Deborah Hofstra, Director
Amy Kay, Director
Marc Bellaud, Director
Amy Ferriter, Director
Lyn Gettys, Director
Chris Mudge, Director
Jens Beets, Student Director

There were no Proxies.

Others in attendance during all or portions of the meeting:

Carlton Layne, AERF Representative
Todd Olson, Strategic Planning Committee Member
Bill Torres, Meeting Planning Committee Chair

PRESIDENT'S REPORT

President Heilman had no report, deferring discussion to New Business.

TREASURER'S REPORT

Treasurer Slade reminded the Board that for joint annual meetings with Chapters, APMS reimburses the Chapter \$2,500 plus \$30 for one-day Chapter member attendance and \$60 for full meeting registration for Chapter members. Fifty-seven WAPMS members attended the Annual Meeting. APMS will reimburse WAPMS \$5,980 for the joint meeting. This is in line with previous joint Annual Meetings. The Silent Auction and Raffle generated ~\$3,600.

Slade provided an attendance summary for the Annual Meeting.

Delegates	131
Guests	13
Students	18
Sponsors	16
Exhibitors	24
Total	202

Jeremy Slade motioned the Board to pay Sherry Whitaker's expenses to organize materials and work the registration desk at the 2020 Annual Meeting in San Antonio, TX. Craig Aguillard seconded the motion. The motion passed without dissenting vote.

SECRETARY'S REPORT

Secretary Jeff Schardt advised that he is scanning slides and Board Book minutes from previous Annual Meetings. These items were provided by Bill Haller. When scanning is completed APMS will have a digital record of APMS business on the web site from 1981 through the present year.

EDITOR'S REPORT

No report.

Craig Aguillard 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 Jay Ferrell advised that Ken Manuel was to be awarded Honorary Membership at the San Diego Meeting. He could not attend the Awards Banquet due to a sudden bout with the flu while at the meeting. He suggested presenting the award at the 2020 meeting in San Antonio.

Bylaws and Resolutions Committee: No report.

Education and Outreach Committee: No report.

Exhibits Committee: Chair Dean Jones provided a summary that there were 26 Exhibitors including two not-for-profit groups at the Annual Meeting. Total income from Exhibitors was \$18,400. There were 18 Sponsors generating \$52,389, totaling \$71,789. This was slightly below the average income of ~\$73,000 dating back to 2010.

Finance Committee: No report.

Legislative Committee: No report

Meeting Planning Committee: Chair Bill Torres provided insight on estimating attendance for

functions at the Annual Meeting and the financial repercussions to APMS. There were 219 registrations for the meeting. All were eligible to attend the Awards Banquet. However, Torres estimates from his experience at previous meetings that around 30% do not show for the Banquet. About sixty people who registered for the San Diego meeting did not attend the banquet and did not inform APMS that they would not attend. If the Hotel prepared meals for the full registration, APMS would have lost about \$12,100 in “unused” meals. Torres ordered 150 meals for the banquet, for which 140 showed, thereby incurring a loss of only ~\$750.

Heilman informed that he has appointed Rob Richardson to Chair the Meeting Planning Committee effective after the Post-Annual Meeting Board Meeting.

Membership Committee: Chair Marc Bellaud had no report. There were very few Committee sign-ups at the meeting. There were suggestions to put a Committee sign-up option on the Annual Meeting registration form. The sign-up sheets can also be put on a poster board at the registration desk and in the Exhibit Hall.

Nominating Committee: No report.

Past President’s Advisory Committee: Chair Craig Aguillard summarized discussion at the Past President’s Luncheon on evaluating perceived value on memberships with AERF, BASS, CAST, RISE, and NALMS. The Past Presidents commented that it is critical to have a Representative who is active with each of these groups. The Past Presidents recommended keeping memberships with the groups and working closely with these entities. Lyn Gettys will work with CAST to determine the status of the HAB Commentary Paper that has been in the works for several years but has not progressed. Although the WSSA membership is expensive and most WSSA activities are non-aquatic, Lee Van Wyche does considerable educational work with staff that benefits APMS but may not be recorded in his reports. RISE will be under new leadership soon, so APMS can re-evaluate the value of APMS continuing to pay membership. Carlton Layne updated AERF activities relevant to APMS in his Special Representative Report below in these Minutes.

Program Committee: No report.

Proposal Review Committee: No report.

Publications Committee: No report.

Regional Chapters Committee: President Heilman spoke for Chair Ryan Wersal. There was discussion at the Regional Chapters Luncheon regarding “streamline and uniformity” among APMS and the Chapters. Share a similar look and processes among APMS and the Chapters. There was also discussion to hold a meeting or summit among the Chapters vs trying to have a meaningful planning session during the 1.5-hour Luncheon at the APMS Annual Meeting.

Scholastic Endowment Committee: No report.

Strategic Planning Committee: President Heilman led discussion on raising funds for the Michael D. Netherland Graduate Student Research Grant so that the Grant can be issued annually.

Heilman suggested as a first step to appoint an ad hoc committee to outline a process toward accumulating these funds. A goal of \$400,000 - \$500,000 has been discussed.

Todd Olson lead discussion on an APMS social media effort. Amy Giannotti in Florida agreed to develop and post content. The platforms are Facebook, Twitter and Instagram.

The Strategic Planning Committee motioned the Board to approve up to a \$2,000 annual stipend for a social media coordinator to develop and distribute social media content. Debra Hofstra seconded the motion. The motion passed without dissenting vote.

Student Affairs Committee: No report.

Website Committee: No report.

AERF: Representative Carlton Layne summarized the AERF-organized field trip in Indiana and Michigan for pesticide registration personnel from U.S EPA (6) and the Canada Pest Management Regulatory Agency (3). Canada is interested in reviewing additional herbicide compounds / products for use in Canadian waters. Additionally, three EPA representatives attended the 2019 APMS Annual Meeting. AERF covered travel; APMS comped their registrations. Layne advised that AERF is considering a similar tour in the Pacific Northwest, perhaps in 2020. Rob Richardson is the liaison with U.S. EPA product registration staff and Jay Ferrell is the science advisor.

BASS: No report

CAST: No report.

NALMS: No report.

RISE: No report.

Women of Aquatics: Amy Kay reported that 21 attended the WOA Luncheon at the Annual Meeting. There was good feedback on the benefits of the Luncheon allowing an opportunity to introduce and network with others at the meeting.

WSSA/Science Policy: No report.

Ryan Thum motioned the Board to approve the Committee and Special Representative Reports. Jay Ferrell seconded the motion. The motion passed without dissenting vote.

Old Business: None.

New Business: The Board discussed potential meeting sites for the 2023 Annual Meeting. The rotation among Chapters would place the meeting in the Midwest region. Cleveland, Indianapolis, and Minneapolis were suggested. Bill Torres will work with the Midwest Chapter for suggestions and to gauge interest in a joint meeting with MAPMS.

Ryan Thum motioned the Board to adjourn the meeting. Jay Ferrell seconded the motion. The motion passed without dissenting vote.

The Board meeting adjourned at 2:03 p.m., PDT.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Teleconference and email votes considered by the Board of Directors of the APMS since the Post Conference Board meeting held on July 17, 2019.

1. Renew APMS Secretary Stipend for Additional Term (7-18-19 – 7-20-22)

On August 1, 2019 Secretary Jeff Schardt wrote:

The annual \$10,000 APMS Secretary stipend coincides with the current term of the Secretary. The Board first approved the Secretary stipend halfway through an existing Secretary term. The stipend was again approved by the Board for the Secretary term July 2016-July 2019. The most recent term as Secretary expired at the end of the 2019 Annual Meeting. Schardt was approved for a new term as APMS Secretary at the Annual Business Meeting; however, there was no discussion on renewing the Secretary stipend concurrent with the term (July 2019 – July 22). On August 1, President Mark Heilman called for a motion and second. Upon receipt of the motion and second, President Heilman established a period for discussion and called for a vote on August 5.

Amy Ferriter motioned the Board that APMS continue the \$10,000 annual Secretary stipend for the time period from July 18, 2019 through July 20, 2022. Jeremy Slade seconded the motion. The motion passed 12-0-1.

2. Donation in Memory of David P. Tarver

On 10-25-19 Secretary Jeff Schardt wrote:

David P. Tarver passed away October 2, 2019. David was a 46-year member of APMS as well as a Charter Member of FAPMS and TAPMS. He served as APMS President in 2002 and FAPMS President in 1986. He published Aquatics magazine from 1985-2009 and was instrumental in producing the APMS education booklet Understanding Invasive Aquatic Weeds distributed to more than a half million students. David was bestowed APMS Honorary Membership in 2012 for his many years of dedication to APMS and accomplishments in the aquatics field. His family has asked that any donations made in David's name be sent to:

University of Florida Health Shands Cancer Hospital.
1515 Southwest Archer Road
Gainesville, FL 32608

Upon receipt of a motion and second and a brief period for discussion, President Heilman called for a vote on October 25.

Jeff Schardt motioned the Board that in recognition of his decades of dedication and service to APMS and to aquatic plant management, that APMS donates \$500 in memory of David Paul Tarver to the University of Florida Health Shands Cancer Hospital. Lyn Gettys seconded the motion. The motion passed 13-0-0.

APMS Board of Directors Meeting – January 28, 2020

Report of President Mark Heilman

Regional Chapter interactions

I attended all regional APMS chapter meetings that have occurred since the joint APMS-WAPMS meeting in July and presented short updates from APMS as has been the historical practice to help maintain connections with the other chapters:

- South Carolina APMS
 - 9/30/19 - 10/2/19 – Myrtle Beach, SC
- Florida APMS
 - 10/14/19 - 10/17/19 – St. Petersburg, FL
- Midsouth APMS
 - 11/3/19 - 11/6/19 – Baton Rouge, LA
- Texas APMS
 - 11/18/19 - 11/20/19 – Bryan, TX
- Northeast APMS
 - 1/14/20-1/16/20 – Lake Placid, NY

In my presentations, I have sought to highlight several key topics:

- Interest and value in improved interaction between the national and the 7 regional chapters to create new value for all members and enhance efficiency of Society operations
- Michael D. Netherland APMS Graduate Student Research Grant...I have noted the name change of the grant to recognize Mike's contributions to APM and stated the intention of APMS to partner with regional chapters and other partners to fund the grant annually versus every other year.
- The importance of highlighting the benefits of successful aquatic plant management to counter the growing negative, scientifically-inaccurate positioning of vocal minority stakeholders on social media such as the attacks on the Florida Fish and Wildlife Conservation Commission.

In addition to the formal presentations at regional conferences, I have engaged with Regional Boards of Directors to solicit feedback on how national-regional interaction can be enhanced. Formal discussions



were held at some of the chapter Board meetings that I was in a position to attend but there were also less formal interactions as well. Those discussions confirm that each regional chapter has different needs and interests for potential collaboration with national but I believe all supported the rationale for the effort. I recently interacted with our Membership Committee on this subject and the outcome of that discussion and recommended actions will be reviewed during that committee's report and also in comments I'll make for Strategic Planning. One interesting point that I'll highlight from the Membership discussion was made by Jeff Schardt who has been reviewing and scanning older BOD minutes and other APMS documents. He noted that around the time that the regional chapters started to form in the late 70s and early 80s, national APMS had 500-580 members. Since the regional chapters and national aggregate membership numbers are certainly well above 1,000 today even when conservatively accounting for overlapping membership, the APM societies are at least double in size from the early 80s national membership, so there has been growth in the discipline overall.

One note on a specific regional chapter interaction...TAPMS...I arranged my schedule so I could participate in the TAPMS post conference Board meeting to discuss efforts with the upcoming joint meeting. It was a good interaction with the TAPMS Board with good dialogue about the technical agenda, student tour options, and other activities.

Partnership with NALMS and other aquatic science societies

In the last few months in collaboration with a handful of other joint APMS-NALMS members/past leadership, I have had a number of interactions with NALMS to revisit past interactions about partnership efforts with APMS. Our NALMS Special Representative Terry McNabb comments on these activities in his current Board report but I'll provide a few additional comments. Along with an informal meeting with the NALMS Executive Board (President Sara Peel, incoming President Perry Thomas, Secretary Amy Smagula, Vice President Lisa Borre, and Treasurer Todd Tietjan) plus several other NALMS Directors, I also gave a presentation at the conference (attached) designed to complement active discussions with the NALMS Executive Committee and reinforce urgency of current HAB management needs and value of collaboration. I believe that NALMS and APMS can work together to reinforce that 'in-lake' strategies such as nutrient inactivation and proactive algaecide management are well-studied and available immediately to complement watershed-based efforts to reduce the human health, ecological, and economic impacts of HAB. There are active discussions with NALMS leadership and their HAB Committee led by Angela Shambaugh with Vermont DEC and Shane Bradt with Univ of New Hampshire. They are also engaged with a project team of the Interstate Technology and Regulatory Council focused on *Strategies for Preventing and Managing Harmful Cyanobacterial Blooms (HCBs)* (<https://www.itrcweb.org/Team/Public?teamID=82>). This relatively new project will *'develop a technical and regulatory guidance document as a comprehensive resource for prevention and management of HCBs. The project team will produce fact sheets on the primary steps of prevention and early response, best management practices, and risk communication. The group will also develop tools and training materials to aid regulators in identifying prevention and remediation approaches.'* This is very similar to the concept proposed for a joint working group between NALMS and APMS, which is proposed to NALMS in form of draft letter to potential outside sponsors such as Corps (attached with this report). There may be an additional update on this subject by the 1/28 APMS Board meeting.

Related to this interaction with NALMS is the potential for APMS to participate in some manner in the Joint Aquatic Sciences Meeting (JASM) being organized mid May 2022 in Grand Rapids. This meeting has been part of the collaboration between various scientific societies in the Consortium of Aquatic Science Societies (CASS) (<https://aquaticsocieties.org/>). I heard of this future event early in the fall while attending the International Conference for Aquatic Invasive Species (ICAIS) in Montreal. NALMS is part of the Consortium along with AFS, ASLO, PSA and several others. It is not clear whether this Consortium is a fit for APMS (from both sides of that interaction) but this meeting could be an opportunity to broaden the picture of prospective technical partners with which APMS collaborates. With HAB part of APMS focus, we will touch a wider range of aquatic disciplines and therefore I recommend the Board strongly consider some form of participation in the Grand Rapids meeting to begin expanding our collective relationships. Midwest APMS would obviously be a potential partner in our interactions with such a meeting.

Other Membership Promotion and Education and Outreach Activities

Along with the regional chapter meetings since the national July meeting, I have also promoted APMS at several other relevant conferences in the second half of 2019.

- With some feedback from Lee Van Wychen making me aware of the activity, I participated in a National Invasive Species Awareness Week (NISAW) planning session at the North American Invasive Species Management Association (NAISMA) conference in NY in late September. I made some comments officially in my role as APMS and I believe they were found helpful. NISAW will be split into two parts this year and here is current info from the NISAW website. I hope some of our APMS membership may be able to engage with these activities in some manner.
 - NISAW Part I - Legislative Advocacy, February 24-28, 2020
 - Promotion of national and local legislative actions
 - Position papers
 - Tools and resources for communicating with policy makers
 - Webinar series
 - NISAW Part II - Local Events and Awareness, May 16-23, 2020
 - Press release toolkit
 - Action toolkit
 - Advertise local events. Post events here. Currently, the map of events is here but that will move to its own webpage
- NALMS – I put up the APMS booth display along with activities noted above and in the Special Rep report.
- ICAIS – I provided APMS social media and website information at my conference poster.

In addition, I have interacted with partners in Alaska and Canada about potential interest in forming future regional chapters. Such dialogue is in an early stage but new invasive aquatic plant threats have expanded interest in aquatic plant management in these geographies. I will continue to look

for such opportunities looking ahead. I have the opportunity to attend the International Weed Science Congress early this summer before APMS and I have inquired with conference organizers about potential APMS participation (exhibit? Discounted sponsorship?).

In late September, I worked with Education and Outreach Committee and the full Board to finalize the new APMS logo and begin its use with the reboot of APMS Social Media activities with help from new coordinator Amy Giannotti. This logo still needs to be fully integrated into the Society's website and other outreach materials. There is an active effort to update the APMS display before MAPMS.

Finally, I have been working with Lee Van Wychen and Rob Richardson on potential educational activities in DC regarding the value and need for research in aquatic plant management and HAB management. This presumably will be mentioned in Lee's Science Policy Director report. Seminars on these two topics would be provided by Rob and Dr. Ken Wagner (APMS member and NALMS & NEAPMS Past President).

Michael D. Netherland APMS Graduate Student Research Grant and APMS Tribute Video

As noted above, I have advocated for potential expansion of the Netherland grant program at all of regional chapter conferences since July. I have also explored interest from a handful of proactive, engaged lake association leaders about the possibility of providing support to an endowment that would foster enhanced research on aquatic plant and algae management and they had interest. This suggests to me that there is a large, untapped source of support from private citizens looking to do whatever it takes to help lakes over the long-term. I look forward to extensive Board discussion in Orlando and resulting actions in the coming months to investigate and implement steps to enhance funding of the grant program.

In the fall, I helped Linda Nelson and the Corps work through final details of editing video footage of the Netherland tribute held at APMS. It was provided to Marci Netherland (and tribute contributors) before Christmas but as of this writing, I am waiting to hear back from her with reaction (I have not directly asked for any yet since the holidays). Once she provides feedback, if all is in order, we'll plan to post the video on the APMS website this winter with effective integration into existing content about the grant program and background on Mike (most of which is posted today).



Improving Scientific Partnership and Integrated Strategies to Address the Global Challenge of Harmful Algae


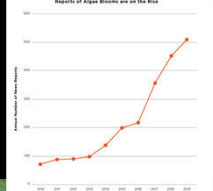
Mark Heilman, Ph.D.¹ and Terry McNabb, CLM²

¹President – Aquatic Plant Management Society; Director of Aquatic Research – SePRO, Carmel IN
²NALMS Past President; Aquatechne LLC, Bellingham, WA



A global crisis


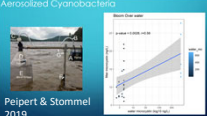
- Harmful Algal Blooms (HAB) have strongly increased in frequency, intensity, and duration in the last several decades.
- The full public health and ecological consequences remain unclear but effectively there are *environmental emergencies* in many impacted ecosystems...and the public and policy makers want action.

From Environmental Working Group (EWG)

Principles of Emergency Management*

- Comprehensive**
 - consider and take into account all hazards, all phases, all stakeholders and all impacts
- Progressive**
 - anticipate future disasters and take preventive and preparatory measures to build resistant and resilient communities.
- Risk-driven**
 - hazard identification, risk analysis, and impact analysis in assigning priorities and resources.
 - Example: Cyano aerosols (Murby and Haney 2016)
 - Review by Peipert and Stommel 2019





Peipert & Stommel 2019

* FEMA Emergency Management Institute 2007



Principles of Emergency Management

- Integrated**
 - unity of effort among all levels of government and all elements of a community.
- Collaborative**
 - create and sustain broad and sincere relationships among individuals and organizations to encourage trust, advocate a team atmosphere, build consensus, and facilitate communication.
- Coordinated**
 - synchronize the activities of all relevant stakeholders to achieve a common purpose.




Principles of Emergency Management

- Flexible**
 - use creative and innovative approaches in solving challenges
- Professional**
 - value a science and knowledge-based approach based on education, training, experience, ethical practice, public stewardship and continuous improvement.

HAB Emergency Management

- Emergency Management has 4 described phases of a continuous cycle (FEMA)**
 - Preparedness
 - Response
 - Recovery
 - Mitigation
- Responses from a water quality management perspective...**



HAB Emergency Management

- Preparedness
- Response
- Recovery
- Mitigation



Dichotomy in HAB management between drinking water supply systems and 'recreational' waters



HAB Emergency Management

- Drinking water supply systems are commonly utilizing a full diverse set of strategies to manage source waters.

'The best approach...is a multi-barrier approach.'
(A Cyanotoxin primer for drinking water professionals, Wetrick and Szlag 2018 AWWA)

- Controlling watershed inputs as feasible
- Aeration/Oxygenation
- P inactivation
- Selective algacide use
- Myriad of 'in-treatment plant' processes
- Examples...



Example of Selective algacide treatment to Drinking Water Supply System



Silverwood Lake Cyanobacteria

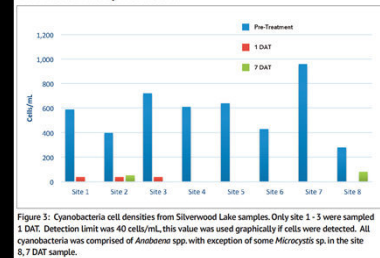
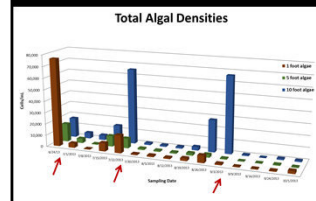
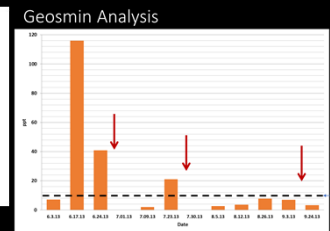


Figure 5: Cyanobacteria cell densities from Silverwood Lake samples. Only site 1 - 5 were sampled 1 DAY. Detection limit was 40 cells/mL, this value was used graphically if cells were detected. All cyanobacteria was comprised of *Anabaena* spp. with exception of some *Microcystis* sp. in the site 6, 7 DAY sample.

Example of Selective algacide / incremental P inactivation of Mid-Atlantic Drinking Water Supply System



New methods can also address concerns of toxin release from algacide management of HAB.



Phosphorus Inactivation – Canyon Lake, CA



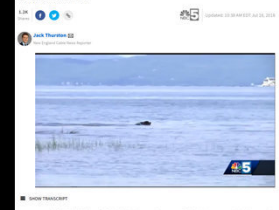
HAB Emergency Management

- **Non-drinking / recreational sites** (including large public waters) have seen less intense management...but need more.

- Focus on watershed activities, monitoring and notification/closures
- Less resources for direct intervention vs. scale of problem?
- Different risk outlook?

- The technical reality...watershed BMPs are not enough (Osgood 2017)

Dog deaths, beach closures highlight cyanobacteria concerns in VT



HAB Emergency Management

- Integrate, Collaborate, Coordinate on Flexible, Comprehensive plans informed by Professionals (management societies)
- In 2014, NALMS and the Aquatic Plant Management Society (APMS) leaders recognized common objectives and discussed how to improve interaction between the two Societies.
- In 2017, APMS officially added algae to its mission to develop and disseminate management science.



Society Partnership can help with HAB Crisis

- NALMS and APMS are at the front lines of science informing HAB management.
- The two Societies can provide strong, concise technical guidance on best means of intervention to limit near-term ecological and health risks of HAB.
- NALMS and APMS Boards are in active discussion to renew momentum from past leadership discussions and take collaborative steps forward.



Society Partnership can help with HAB Crisis

- Partnership actions?
 - Technical working meeting on HAB mitigation
 - Enhanced Board collaboration
 - Joint / affiliate member benefits
 - Communications in each Societies publications



Feedback is welcome!

References

- FEMA Institute of Emergency Management. 2007. Principles of Emergency Management Supplement. 9 pp.
- Murby, A.L. and Haney, J.F., 2016. Field and laboratory methods to monitor lake aerosols for cyanobacteria and microcystins. *Aerobiologia*, 32(3), pp.395-403.
- Peipert D and E Stommel. 2019. Cyanobacteria and Human Disease. Presentation at Emerging Contaminants in the Environment Conference. <http://hdl.handle.net/2142/103974>
- Richard A. Osgood (2017) Inadequacy of best management practices for restoring eutrophic lakes in the United States: guidance for policy and practice, *Inland Waters*, 7:4, 401-407, DOI: 10.1080/20442041.2017.1368881
- Westrick, J.A. and Szlag, D., 2018. A cyanotoxin primer for drinking water professionals. *Journal-American Water Works Association*, 110(8), pp.E1-E16.



Questions or comments?
Mark Heilman, Ph.D.

Ph: 317-775-3309, markh@sepro.com





To: (Potential public/private sponsor)

From: The North American Lake Management Society (NALMS) and the Aquatic Plant Management Society (APMS)

Subject: **Seeking support for a NALMS-APMS Joint Technical Working Group to Form Consensus Strategies on *In situ* mitigation of Harmful Algal Blooms (HAB)**

The North American Lake Management Society (NALMS) and the Aquatic Plant Management Society (APMS) have missions and technical expertise to provide concise guidance on best management strategies for *in situ* mitigation of Harmful Algal Blooms (HAB) that will reduce their acute, ecological, economic, and human health impacts. *In situ* mitigation involves direct intervention to impaired waters reducing HABs and their associated toxins as well as inactivating excess internal legacy nutrients that drive eutrophication enhancing frequency and intensity of bloom events. These *in situ* strategies can be deployed on a relatively short time scale addressing acute HAB impacts while complementary watershed Best Management Practices (BMPs) are focused on reducing external loading. Addressing external loads is a critical part of long-term, sustainable water quality management. However, implementation of BMPs to reduce external loading is time intensive with major economic investment required and the potential benefits of BMPs are often insufficient based on past history of lake management (Osgood 2017).

In situ mitigation can be a more ‘rapid response’ to HAB outbreaks when compared to watershed BMPs. Site-specific mitigation activities include inactivation of internal nutrient load (primarily phosphorus), oxygenation and/or water circulation strategies when they are appropriate yielding clear benefits for water quality conditions, and targeted use of algaecide applications that immediately reduce HAB while minimizing overall toxin exposure in the aquatic environment. NALMS and APMS scientists have the knowledge base to develop strong, consensus technical recommendations for *in situ* mitigation to complement watershed BMPs. For policy makers working to support short-term and long-term improvement in water quality and reduced HAB impacts to public waters, a clear ‘technical roadmap’ to how *in situ* mitigation can improve water quality would have high value. As an example of public interest, the Florida Blue Green Algae Task Force encouraged in its October 2019 consensus ‘*investment in a program to aid in the development and/or implementation of technologies to reduce nutrients and/or harmful algae.*’ It is proposed that NALMS and APMS jointly collaborate with help from public and private sponsorship to conduct a working group session designed to develop technical guidance on *in situ* mitigation strategies for HAB.

The following are primary technical issues needing discussion and resolution in the development of consensus for management policy directing actions and resources (additional issues will likely be added as discussions progress):

- 1) Optimal utilization of *in situ* nutrient mitigation techniques to reduce internal nutrient loading from sediments as well as distinct loading from external inputs (inflowing, high-nutrient tributaries)



- 2) Best use of copper-based and other algaecide formulations and synthesis of their ecological risks and management benefits for addressing HAB events
- 3) Methods to manage large-scale, HAB-impacted ecosystems in ways that are economically feasible and have the highest impact in reducing HAB risks to human health and system ecology
- 4) Technical balance (effectiveness, predictability, costs, sustainability) between *in situ* mitigation and watershed strategies to optimize short-term water quality improvement and still support long-term solutions for reducing nutrient pollution.

NALMS and APMS invite partner sponsorship for a facilitated working group designed to prepare a technical white paper promoting more effective HAB control efforts. The document would describe best strategies for *in situ* rapid response to developing blooms that utilize control and nutrient mitigation strategies together to reduce acute negative effects of HAB outbreaks. These strategies would be designed to fit effectively into an integrated long-term plan for comprehensive water quality improvement. The working group would have fair representation from both Societies with participants having expertise to support discussion of key topic areas and also representing additional scientists with potential contributions to topic area for consensus building and integration. A total of 10 – 15 participants would be selected for the facilitated working session. Sponsorship of the joint working group would help defray costs of a two-day, small-meeting venue likely in the Washington DC area, external facilitation, partial travel support to working group participants with demonstrated need, and minor costs anticipated in production and communication of the final white paper. The working group would seek to meet in the first half of 2020 with a final white paper completed by late 2020.

Thank you for your consideration of support for this important collaborative effort.

Sincerely,

Perry Thomas

President – North American Lake Management Society

Mark Heilman

President – Aquatic Plant Management Society

January 28, 2020

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 12/31/2019.

Investment Portfolio Performance: See Finance Committee Report.

2019 Income and Expenses.

Enclosure 2 is a summary of income and expenses for the period January 1, 2019 through December 31, 2019.

2020 Preliminary Budget.

Enclosure 3 is a preliminary budget for the January 1, 2020 through December 31, 2020 which estimates a net income (deficit) of (-\$48,875).

APMS Income and Expense Itemized Comparison 2013-2019.

Enclosure 4 is an itemized summary of income and expenses from 2013-2019.

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, 2019. In addition, they will prepare our federal information return for the year ended December 31, 2019. The estimated fees for these services should not exceed \$6,250.00.

4 Enclosures

The Aquatic Plant Management Society, Inc.

General and Scholastic Accounts

December 31, 2019

General and Scholastic Accounts

General Accounts

Checking (general op)	\$16,011.37 (12/31/19)
Investment (emergency)	\$275,410.22 (12/31/19)

Total General Accounts	\$291,421.59
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Scholastic Accounts

Checking (discretionary)	\$58,474.28 (12/31/19)
Investment (disc. subaccount)	\$153,118.99 (12/31/19)

Total Scholastic Accounts	\$211,593.27
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Total General and Scholastic Accounts	\$503,014.86
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The Aquatic Plant Management Society, Inc.
2019 Income and Expense Report
 January through December 2019

	Jan - Dec 19
Ordinary Income/Expense	
Income	
Annual Meeting Income	
Contributions	53,719.00
Delegate 1-Day Registration	600.00
Delegate Pre-Registration	24,000.00
Delegate Registration	10,875.00
Event Tickets	1,070.00
Exhibit Fees	18,400.00
Guest Pre-Registration	1,040.00
Guest Registration	310.00
Student Registration	75.00
Total Annual Meeting Income	110,089.00
Journal Income	
Page Fees	14,789.00
Research Methods Publication	140.00
Royalties	265.40
Subscriptions	2,000.00
Total Journal Income	17,194.40
Membership Income	
Individual	24,035.00
Student	60.00
Sustaining	13,000.00
Total Membership Income	37,095.00
Scholastic Endowment Income	
Contributions	408.20
Netherland Memorial	35,050.00
Raffle & Silent Auction	9,310.00
Total Scholastic Endowment Income	44,768.20
Total Income	209,146.60
Expense	
American Express Annual Fee	140.00
Annual Meeting Expense	
Audio Visual Equipment	7,351.20
Deposit	1,000.00
Food & Beverage	58,532.58
Host Chapter Reimbursement	5,980.00
Meeting Planner	1,650.00
Poster Boards	740.00
President's Reception	6,947.55
Program	1,588.91
Shipping of Materials	177.91
Signs	1,208.11
Student Guest Rooms	3,812.80
WSSA Rep Travel	960.03
Total Annual Meeting Expense	89,949.09
Awards	
Plaques/Certificates	1,769.78
Poster Award	200.00
Total Awards	1,969.78
Corporation Annual Report Fee	61.25
Credit Card Merchant Processing	
Card Fees	6,369.32
Total Credit Card Merchant Processing	6,369.32

The Aquatic Plant Management Society, Inc.
2019 Income and Expense Report
 January through December 2019

	Jan - Dec 19
Dues	
AERF	1,000.00
CAST	1,500.00
RISE	575.00
WSSA	6,500.00
Total Dues	9,575.00
Education/Outreach	4,000.00
Insurance	
Board of Directors Liability	815.00
Commercial Bond	221.00
General Liability	283.32
Insurance - Other	515.00
Total Insurance	1,834.32
Journal Expense	
Editor Stipend	6,000.00
Manuscripts	13,513.76
Printing & Postage	324.74
Total Journal Expense	19,838.50
Meeting Planner	
Meeting 3 years out	750.00
Travel reimbursement	1,219.86
Total Meeting Planner	1,969.86
Miscellaneous	-4,940.01
Professional Fees	
Accounting	6,125.00
Consulting	550.00
Total Professional Fees	6,675.00
Scholastic Endowment Expense	
Graduate Assistantship	50,000.00
Reverse Raffle	3,400.00
Student Poster Award	600.00
Student Presentation Award	600.00
Total Scholastic Endowment Expense	54,600.00
Secretary Stipend	10,000.00
Supplies	306.34
Travel	
Board Member Travel to Meetings	552.60
Registration Booth Staff	3,228.37
Total Travel	3,780.97
Website	
Administration	5,600.00
Total Website	5,600.00
Winter Board Meeting	
Audio Visual Equipment	238.77
BOD Hotel Rooms	2,034.19
Meals	2,672.61
Travel	62.50
Total Winter Board Meeting	5,008.07
Total Expense	216,737.49
Net Ordinary Income	-7,590.89

9:08 AM

January 18, 2020

Cash Basis

The Aquatic Plant Management Society, Inc.
2019 Income and Expense Report
January through December 2019

	Jan - Dec 19
Other Income/Expense	
Other Income	
Interest Income	
General	36,809.95
Scholastic	19,906.58
Total Interest Income	56,716.53
Total Other Income	56,716.53
Net Other Income	56,716.53
Net Income	49,125.64

The Aquatic Plant Management Society, Inc.
Preliminary Budget
January through December 2020

Income/Expense

Income

Annual Meeting Income	110,000.00
Journal Income	17,500.00
Membership Income	16,000.00
Scholastic Endowment Income	17,000.00
Total Income	160,500.00

Expense

Annual Meeting Expense	110,000.00
Awards	3,000.00
Contributions	5,000.00
Dues	9,500.00
Fees	6,000.00
Insurance	1,900.00
Journal Expense	20,000.00
Postage and Shipping	125.00
Printing and Reproduction	900.00
Professional Fees*	19,000.00
Scholastic Endowment Expense	20,000.00
Supplies	350.00
Travel	5,000.00
Website	3,600.00
Winter Board Meeting	5,000.00
Total Expense	209,375.00

Net Income	-48,875.00
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Income	2013	2014	2015	2016	2017	2018	2019	Average
Annual Meeting Income								
Contributions	52472.5	49739.75	47712.5	45360	71065	57140.5	53719	53887.04
Exhibit Fees	18900	19600	18200	15400	18400	14400	18400	17614.29
Event tickets	205	735	1320	575	825	475	1070	743.5714
Delegate Registration	4620	6095	10505	6930	11100	8625	10875	8392.857
Delegate 1 day	1300	400	700	760	500	925	600	740.7143
Delegate pre-registration	28600	25850	30025	16500	24775	18600	24000	24050
Guest pre-registrations	2080	2340	1300	1696.8	1300	2080	1040	1690.971
Guest registration		775	1395	410	155	310	310	559.1667
Student registration	375	300	375	150	225	300	75	257.1429
Other (hotel credit for room nights)		1899.18	2525.64	924.6	1529		6100	2595.684
Journal Income								
Page fees	9145	17535	17312.58	8070	11697.5	8155	14789	12386.3
Research Methods Pub Regional Ch Support					9500	11040	140	6893.333
Subscriptions	7800	6800	8600	6000	7400	6000	2000	6371.429
Royalties/Open Access		225.16	500		67.65		265.4	264.5525
Membership Income								
Individual	17150	16415	12150	12900	12075	9440	24035	14880.71
Student	200	160	80	200	160	280	60	162.8571
Sustaining	7500	7500	10000	12000	11500	13000	13000	10642.86
Other		30	75			75		60
Scholastic Endowment Income								
Applied Bio (PLMA)	2800	1900	2700		755	620	408.2	1530.533
Contributions (general, e.g. Duke)	356.96	150	150	150	150	400		226.16
Netherland Memorial						4870	35050	19960
Raffle and Silent Auction	9534	6917	6225	5380	3889	5773	9310	6718.286
Golf			1140					1140
Duck Race			1630		2250			1940
Cornhole					220			220
Starry Stonewort GSRG					30000	20000		25000

Reg Chapter GSRG	13000	4000	13000	10000	8000	8000		9333.333
Investment Interest								
General (Invest Gain)	44820.05	17099.58	6673.75	15635.74	21982.73	10016.6	36809.95	21862.63
Scholastic (Invest Gain)	10316.39	4509.43	27777.49	7893.9	13884.12	5666.45	19906.58	12850.62
Miscellaneous Income			10	2		15.94		9.313333
Expenses								
Annual Meeting Expense								
A/V Equipment	4650	3000	3162.02	3058.69	4660.01	5583.79	7351.2	4495.101
Deposit		9000			500	2000	1000	3125
Entertainment	315	2161.25	1381.49					1285.913
Guest Tours	2460	2485	2522.85	1660	2675			2360.57
Invited Speaker	500		963.39		449.97			637.7867
F&B	55206.12	58606.38	40939.53	41040.55	27252.4	56145.07	58532.58	48246.09
Host Chapter Reimbursement	5463.87	4442.74	7515				5980	5850.403
Meeting Planner	2088.36	1980	2229.7	1650	1650	1650	1650	1842.58
Poster Boards	334.95		210	351.48		630.75	740	453.436
Banquet			19776.95		17883.76			18830.36
Poster Reception			9746.52		417.42			5081.97
President's Reception			17250.72		14557.54		6947.55	12918.6
Program	1322.5	1589.75	1382.5	1145	1145	957.5	1588.91	1304.451
Shipping of Materials	65.18		33.41		235.95	200.5	177.91	142.59
Signs	1146.43		1648.26	1182	1747	1824.72	1208.11	1459.42
Student Tour	145.23	875.74	1560.7	1842.19	830.11	1546.36		1133.388
Student Books	636.52	1460.34	1132.01	1509.27				1184.535
Student Guest Rooms		5434.49	7109.65	6009.9	7924	9215.07	3812.8	6584.318
Plaques/Certificates	1501.43	1639.56	1162.2	1377	1789.21	1906.35	1769.78	1592.219
Poster Award	100	100		100	100		200	120
Student Poster Award	500	600	500	500	600	600	600	557.1429
Student Presentation Award	600	900	700	800	600	600	600	685.7143
Reverse Raffle/item purchases	1262.77	992.67	96.57	42.07			3400	1158.816

Board Members travel to meetings including								
President's & WSSA Rep	545.65	5324.44	2072.45	2827.69	3565.6	1911.37	3800.31	2863.93
Registration Booth Staff			1460.23	795.7	708.6	777.36	940.69	936.516
Golf Tourney			451					451
supplies			125.52		309.72			217.62
Corporation Reporting fee	61.25	61.25	61.25	61.25	61.25	61.25	61.25	61.25
Post office box fee	140	73						106.5
Postal Services	328.24	191.16	446.68		7.6			243.42
Printing and Reproduction			159.47			770.78		465.125
Credit Card Expenses								
Card Fees	4393.04	5433.9	5683.81	5258.17	5952.11	4691.24	6369.32	5397.37
American Express Annual Fee	120	120	120	140	140	140	140	131.4286
Terminal fee	481.24	479.36	128.08					362.8933
Dues								
AERF	1000	2000		1000	1000	1000	1000	1166.667
CAST	1500		1500	1500	1500	1500	1500	1500
RISE	500	500	500	500	500	575	575	521.4286
WSSA	6212	6212	5278		5278	5436.36	6500	5819.393
Education and Outreach	3000	13324.72	7536.07	3752.13	17517.8	5000	1000	7304.389
APMS Blog/Social Media	960	5000	5000				3000	3490
Insurance								
BOD liability	1299	1299	1373	818	800	807	815	1030.143
General Liability	725	725	725	425	708.32	737	798.32	691.9486
Insurance other commercial bond	222.86	222.86	221	221	221	221	221	221.5314
Investment interest expense (invest loss) General	360.88	5562.04	9197.5	425.92		19443.23		6997.914
Investment interest expense (invest loss) Scholastic		1159.23	7316.45	21880.97		10654.36		10252.75

Journal expense

Editor Stipend	4000	4000	6000	2000	6000	6000	6000	4857.143
Manuscripts	7905.32	18696.83	20268.56	12880.45	14390.11	27083.79	13513.76	16391.26
Printing and Postage	4073.14		7.56	261.09	99.42	415.44	324.74	863.565
Editing	490.31							490.31
Buyers guide			412.5					412.5

Meeting Planner

2/3 years out future planning	1299.45	1828.36	1444.15	1573.55	750	750	750	1199.359
travel reimbursement				486.2	1457.05	2179.66	1219.86	1335.693
Miscellaneous			81.18	193.42	73.99	3.29	159.99	102.374
Memorial Contributions	250			225.25			1000	491.75

Professional fees

Accounting/Audit	5316.79	5554.55	5500	5800	6000	6000	6125	5756.62
Consulting		322			2000		550	957.3333
Society Assets		534.99	97.82	52.99	406.8	224.69		263.458

Scholastic Endowment Expense

GSRG	20000	20000	20000	40000	40000	50000	50000	34285.71
Secretary Stipend				10000	10000	10000	10000	10000
Supplies	412.03	1174.89	172.63		120.21	47.7	306.34	372.3
Website Administration	5375	3000	4294.75	4000	3300	3600	5600	4167.107

Winter BOD meeting

A/V equipment				76.8	255.6	958.63	238.77	382.45
BOD hotel rooms/meeting room/F&B	1850.25	2358.57		1459.1	867.18	954.31	2034.19	1587.267
Meals	1226.3	781		1557.99	6116.9	2312.17	2672.61	2444.495
Travel	971.64	822.72	453.7	111.5	349.01	60.75	62.5	404.5457
Deposit					1280			1280

Aquatic Plant Management Society
Board of Directors Meeting
January 28, 2020
Hampton Inn Orlando Airport – Orlando, Florida

Secretary Report

Submitted by: Jeffrey D. Schardt

The following tasks have been completed since the San Diego, CA Post-conference Board Meeting.

Minutes: Approved Minutes from previous Board Meetings are posted on the APMS web site under Members Only / Documents. A listing of Motions approved by the Board since 2009 that are related to business of the Society is posted on the APMS web site under Members Only / Documents and Archives / APMS Business Motions 2009-2019. Motions that commit APMS funds are highlighted in yellow.

Scanner: Minutes from Board Books dating from 1979-2000 along with the list of Board Members and Committee Chairs from each year have been scanned and posted on the APMS web site under Members Only / Documents / Board Meeting Minutes. (See the end of this report for some interesting facts from the 1979-2000 Board Books.) The next scanning project is to obtain slides from the USACE archives from previous APMS Annual Meetings and post 40-50 along with the Program and Abstracts from each meeting on the web site under Annual Meeting Archives.

Membership Invoices: 2020 Invoices and information on APMS achievements for 2019 were emailed to the Sustaining Members on January 2, 2020. APMS has 26 Sustaining Members; up from a low of 15 just a few years ago. The newest Sustaining Member is Compliance Services International. 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. Half of Sustaining Membership dues are deposited in the Scholastic Endowment Account that funds the Michael D. Netherland Graduate Student Research Grant.

Dues notifications for Individual and Student Members were emailed on January 6. I sent notifications to members who had not renewed back to 2018. After an initial flurry of activity, 2020 membership renewals have been slow. A second and third notice will be sent on February 3 and March 2, respectively. Many members are now renewing dues payments online. Some people still FAX or email dues to the Treasurer who forwards notice of payment to the Secretary to update the database.

Remember that persons who paid individual Delegate Registrations for the 2019 Annual Meeting in San Diego receive a one-year (2020) membership to APMS. Memberships were automatically posted to 2020 in the database for online Delegate Registrations. I worked with Treasurer Slade to reconcile Annual Meeting Delegates who paid via mail, email, FAX or at the door. Students who compete in the Oral or Poster Presentations also receive a one-year APMS membership. All student presenters were entered or updated to 2020 in the database.

Website Information Updates:

- Updated Board and Committee personnel for APMS Year 2019-2020
- Wrote/posted a page on the Michael D. Netherland Graduate Student Research Grant

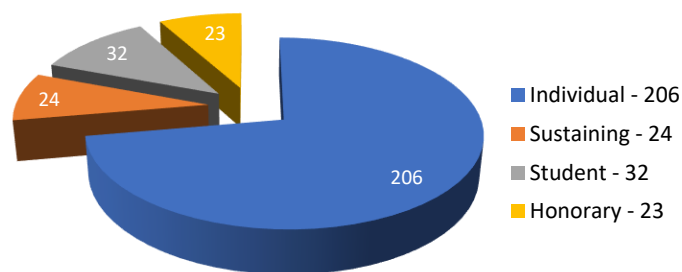
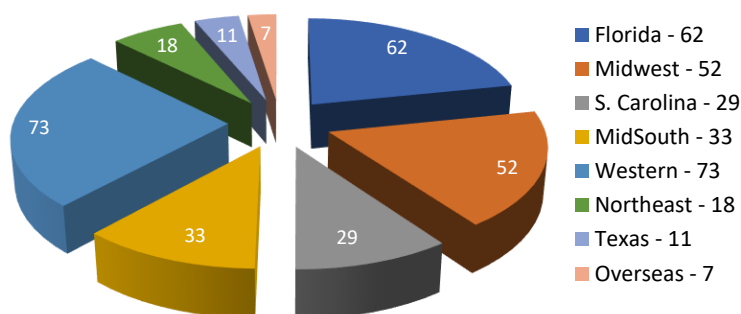
- Added 2019 Award and GSRG recipients and posted the 2020 GSRG solicitation
- Wrote/posted San Antonio Annual Meeting information
- Published/posted October Newsletter on web site
- Updated APMS PowerPoint presentation - posted on web site (Resources/Members Only)
- Drafted/posted a new APMS Homepage banner with the new logo
- Revised/posted the Annual Meeting White Paper

Membership: The following charts break down APMS Membership as of January 1, 2020. This includes only members paid through 2019, 2020 and Honorary members. I had previously included a third year (for example 2018 in this case), anticipating their membership dues renewal during the current year. However; three email and one mail notification to renew membership for previous members more than one year in arrears resulted in only a couple renewals. The chart to the left below shows the 285 APMS members by the Regional Chapter boundaries in which they reside. The bottom right chart shows APMS members by membership type. We picked up 50 new members in the Western Chapter for 2020 as a result of the joint meeting in San Diego. Overall membership increased from 224 in 2019 to 285 at the beginning of 2020. Membership distribution is also presented graphically along with Annual Meeting sites on the map at the end of this report.

In addition to the membership depicted below, APMS has 29 Subscribers – mostly libraries or research institutes. There has been a slow but steady decline in Subscriptions each year over the past decade. Fifty-two Subscribers have not renewed during the period from 2009-2019.

Membership by APMS Regional Boundary

APMS Membership Distribution



2019-20 Expenditures: As outlined in the APMS Operating Manual, I have included a breakdown of AMEX credit card expenditures so far for APMS year 2019-2020 for the Office of the Secretary. Also below is the budget estimating expenditures for the Office of the Secretary for 2020.

Date	Shipping / Postage	Travel	Supplies	Amount
07/17/19	Ship APMS Display to Thomasville			75.31
09/24/19	Mail New Mbr Research Methods			7.35

Proposed Budget for 2020 - Office of the Secretary

Item

Estimated Cost

Postage (mail journals): \$300

Secretary Travel Expenses: \$1,375
hotel, parking, gasoline

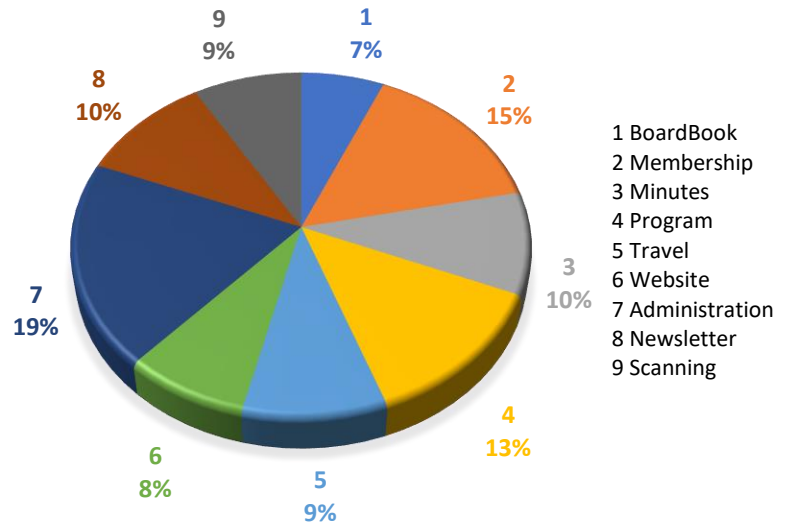
Total **\$1,675**

Expense	Mid-year	Annual
hotel	340	900
travel	30	100
Total	\$370	\$1000

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 2019. I spent about 589 hours or about 28% of a full-time position performing APMS Secretarial duties. Most of the increase in Secretarial duties for 2019 was spent scanning Minutes and other business documents from ~20 years of Board Books (1979-2000) provided by Bill Haller. A monthly breakdown by task is available upon request.

2019 APMS SECRETARY TIME DISTRIBUTION



Board Book	Mbrshp.	Minutes	Program	Travel	Website	Admin.	Newsletter	Scanning	Total
38.25	89.5	56.5	77.65	55	47.25	113.75	61.25	50	589.25

March 2020 Newsletter:

The March Newsletter is historically dedicated mostly to the Annual Meeting. I would like to publish the Newsletter no later than Monday, March 2. Below is the Table of Contents from the March 2019 Newsletter. The March 2020 Newsletter will follow a similar format. You can view the full Newsletter on the web site at <http://www.apms.org/newsletters/>. If you have ideas for articles, please let me know.

- 1 Annual Meeting Announcement
- 3 Meeting Registration Form
- 4 Call for Papers
- 5 Abstract Submission Instructions

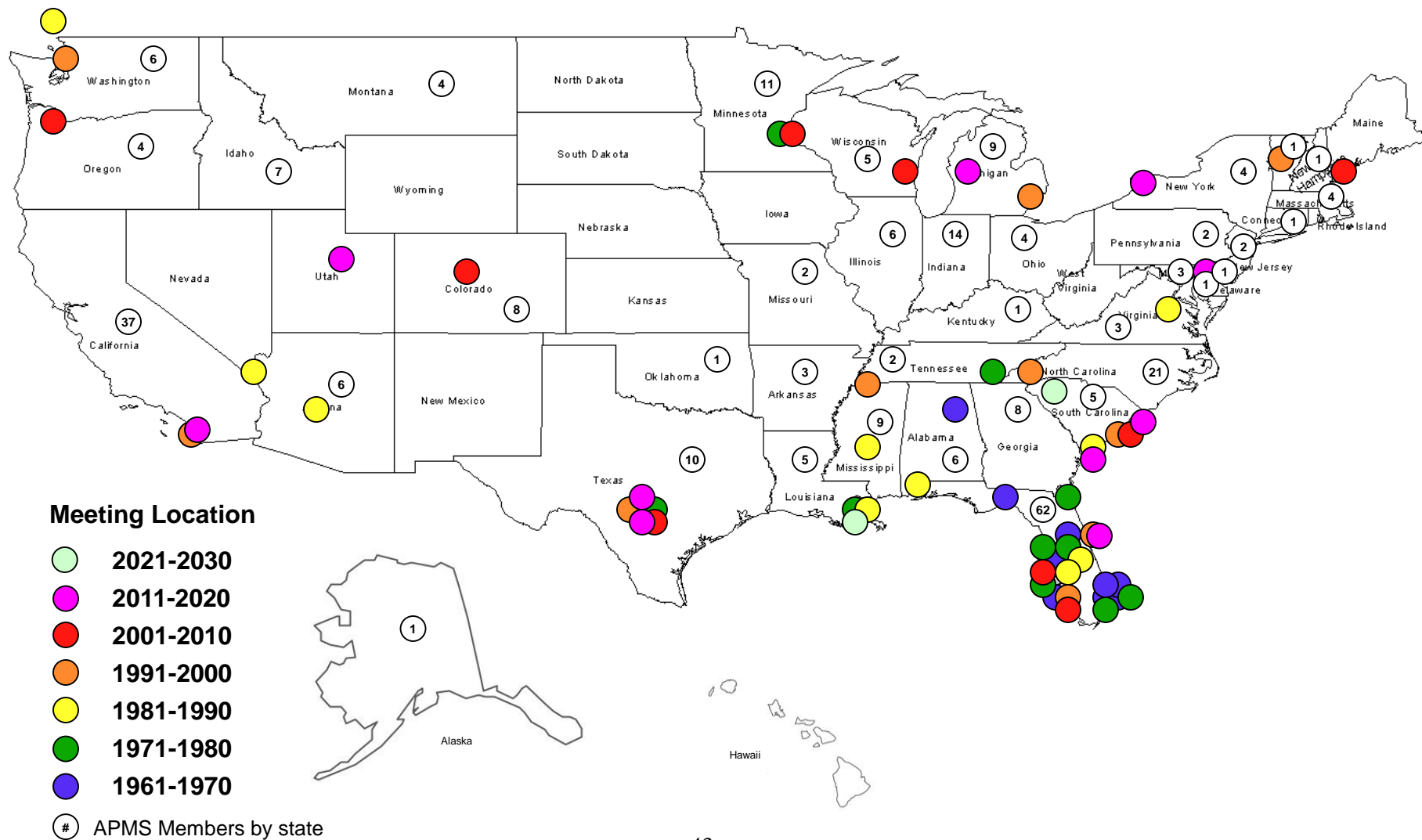
- 6 Student Presentation Contests & Incentives
- 7 Call for Sponsors, Exhibitors, Awards
- 8 Annual Meeting Exhibit Booth Form
- 9 In Memory of Michael D. Netherland
- 10 APMS Offers to Assist FL Plant/Algae Issues
- 10 In Memory of Scotty Lankford
- 11 Washington Report
- 15 APMS Sustaining Members
- 15 APMS Chapter and Related Meetings
- 16 APMS Officers, Directors, Committee Chairs, Special Representatives
- 17 APMS Background and Mission

Fun Facts from the APMS Minutes Archives 1979-2000:

Following are some interesting items found while scanning Minutes for the Archives.

- 1979/1980 – APMS / CAST Membership
- 1986 – First APMS Operating Manual
- 1987 – APMS / WSSA Membership – APMS President invited to sit on WSSA Board
- 1989 – APMS opens formal collaboration with NALMS – criteria in Operating Manual
- 1991 – First Student Reception at the Annual Meeting – now Student Meet-and-Greet
- 1991 – Newsletter Editor becomes an Officer on the Board
- 1992 – 26 Student Presenters at the International Symposium in Daytona
- 1992 – Ad hoc Committee to open formal dialogue with BASS
- 1992 – MOU with NALMS to produce “Aquatic Plant Management Guidelines – contracted with EPA
- 1995 – Newsletter Editor becomes a function of the Secretary-Treasurer
- 1997 – APMS first time contribution to AERF
- 1997 – WSSA offers APMS to print the JAPM as a section of the WSSA Journal
- 1997 – APMS develops criteria for the organization of new APMS Chapters
- 1997 – APMS Nile Basin Chapter establishes – APMS provides \$500 (NBAPMS active through 2003)
- 1998 – First APMS web page
- 1999 – The Office of Secretary-Treasurer is divided into Secretary and Treasurer
- 2001 – APMS Brazil Chapter is reported (BAPMS active through 2003)
- 2006 – APMS adopts the round shield logo – used through 2019

APMS Annual Meeting Sites by Decade 1961-2020 and 2020 Member Logistics



Editor Report – Journal of Aquatic Plant Management
January 2020 Board Meeting
Jason Ferrell

JAPM 58:1 (Jan 2020) has shipped. It contains 12 manuscripts (8 papers and 4 notes).

Total number of submissions:

2014 – 50

2015 – 26

2016 – 34

2017 – 47

2018 – 34

2019 – 45

2019 by the numbers

Accept 71%

Reject 20%

Resubmit 9%

On average, we are 34 days for an editorial decision. It can be as high as 60 days for a major revision and as low as 1 day for a final accept.

Special Issue

John Madsen is working with his colleagues to write up the multi-year San Joaquin Delta project. There are approximately 13 papers and will be bound and distributed as a special issue. Page charges will be increased for this issue such that there is no cost to APMS.

Outstanding JAPM article award

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

Awards Committee Report

Jay Ferrell

Advertisement for March Newsletter and Email to Membership

Call for 2020 APMS Award Nominations

It is time to recognize your colleagues for exemplary achievements and service. The Society provides a number of different awards in research and management for both long-time and short-term accomplishments and to established researchers and graduate students just beginning their journeys in aquatic plant control. Visit the [Awards](#) page on the APMS website for more information on each Award and a list of past recipients. Criteria and Nomination Forms are at the end of the Awards page on the web site. The deadline for nominations is April 1, 2020.

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

Bylaws and Resolutions Committee Report

Information submitted by: Jeffrey D. Schardt, Secretary

There are two Bylaws Committee issues remaining from APMS Year 2018-2019 that must be resolved in APMS Year 2019-2020.

1) Ken Manuel Honorary Membership

Ken Manuel was voted by the Board to receive APMS Honorary Membership at the 2019. The formal award was not presented at the 2019 Annual Meeting due to Ken's sudden illness at the meeting and inability to attend the Awards Banquet. After consulting with Ken, the Board agreed to postpone this award in 2019 and present APMS Honorary Membership to Ken Manuel at the 2020 Annual Meeting in San Antonio. This also benefits Ken in that he has family in the San Antonio area who can attend the 2020 Awards Banquet.

2) The Board voted at the July 14, 2019 BOD meeting to amend the ARTICL XIII of the Bylaws (see below). This vote was too late to advertise in the Newsletter 30 days prior to the July 15, 2019 Annual Business Meeting as required in the Bylaws. It must now be advertised and voted on by the membership at the 2020 Annual Meeting.

Jeff Schardt motioned the Board to amend Article XIII, No. 12. of the Bylaws to reflect the Board's desire for the Proposal Review Committee to review and make recommendations to the Board for all external proposals submitted to APMS that include APMS funding. Scott Nissen seconded the motion. The motion passed without dissenting vote.

ARTICLE XIII. COMMITTEES and REPRESENTATIVES

12. Proposal Review Committee. This Committee shall be responsible for reviewing and making recommendations to the Board for all proposals externally submitted funding requests / proposals to the Society equal to or in excess of \$5,000, regardless of the funding amount, 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.

Education and Outreach Committee Report

Members – Brett Hartis, Amy Ferriter, Jeff Schardt, Amy Giannotti

APMS Logo Updates

APMS brochure – During the Oct. 24th APMS Board teleconference, a request was made to update the APMS brochure with the new logo. The brochure is intended to go along with the APMS display at conferences and events attended by APMS representatives. 500 copies were purchased for distribution at such events. The new brochure can be found in the attached.

APMS Website Banner – The APMS logo has also been updated to the APMS website banner (see attached).

APMS Retractable Banners – The APMS logo and educational materials depicted on the banners have been updated on the retractable banners used for conference attendance. The two larger photos at the bottom of the panels, originally depicting a mechanical harvester (left) and a foliar herbicide application taking place to control floating plants (right) were replaced with generic “before and after” management photos (see attached).

Social Media Update – Amy Giannotti

I love serving APMS in this capacity, and here are some things I have learned/thought about since assuming this role October 1, 2019:

The posts that are liked the most across all three platforms are the ones with a catchy theme — > “Just another Mimic Monday...” I’ll try to incorporate more of those with clever themes and such.

I think it is good to include the APMS Newsletter in the Instagram bio (at the top of the account profile page), but we need to keep that current. Did we have a newsletter for November or December?

I need to do a better job of posting meetings and learning opportunities across the country, and I encourage and welcome suggestions/feedback/input from others - particularly outside of Florida so I can make sure to keep it a broad focus on issues affecting our industry nationwide.

I communicate regularly with John Madsen who does APMS info on LinkedIn.

It would be most helpful to have the software “Hootsuite” if that is something APMS would consider. It allows you to manage multiple social media accounts by planning content, images, and publish dates in advance and then it automatically does that. Wanted to mention in case someone has access to a discounted price or similar program. Otherwise it is \$30/month, I think, and I can’t commit to that now.

See attached Social Media analytics.

Analytics for APMS Social Media since ~October 1, 2019: (page 1)

Facebook: Launched 9-26-19

Page likes	165
Page followers	176
# Posts of original content generated by me	31
# Posts linking/sharing other information	39
Total posts made in 110 days	70

Top Posts for Reach:	# reached
"Just another Mimic Monday"..water hyacinth & frog's bit	1,100
UF/IFAS CAIP leading resource for aquatic plant management	998
"Just another Mimic Monday"...crested floating heart & banana lily	904
Dr. Michael D. Netherland photo with Marissa Williams	581
Avian Vacuolar Myelinopathy and Hydrilla	557
Left unmanaged, exotic and invasive plants clog waterways (SJR aerial)	547
Alaska's first non-native aquatic plant	481

Top Posts for Engagement (reactions, comments, shares):	
Avian Vacuolar Myelinopathy and Hydrilla	133
Alaska's first non-native aquatic plant	89
Dr. Michael D. Netherland photo with Marissa Williams	66
"Just another Mimic Monday"..water hyacinth & frog's bit	57
UF/IFAS CAIP leading resource for aquatic plant management	57
"Just another Mimic Monday"...crested floating heart & banana lily	54
Dr. Jason Ferrell speaking at FAPMS	34

People are most active 4 am - 9 pm Eastern

34% female; 65% male; majority user group is 35-44 years old for both genders

Stats

160 followers from USA

2 from Canada

1 from Myanmar, Egypt, Nepal, Singapore, Phillippines, Nigeria, & Greece

Analytics for APMS Social Media since ~October 1, 2019: (page 2)

Twitter: Launched Feb. 2014 - Dormant till Sep. 2019
 479 Following
 331 Followers

Monthly stats/Most liked topics:	Tweets	Tweet Impressions	Profile Visits	Mentions	New Follows
September (New APMS Logo)	10	2,468	141	5	29
October (European Frog's Bit, FAPMS)	53	19,500	226	3	41
November (APMS Michael D. Netherland Grant, TAPMS)	35	13,300	96	5	16
December ("Just another Mimic Monday" ...crested floating heart & banana lily)	13	7,345	44	0	13
January (thru 1-14-20 - Vasey Pondweed Returns to Ohio)	4	1,877	8	0	4

Instagram:

# of posts	29
# of followers	121
Average number of interactions per photo	13

BENEFITS

Publications

APMS members receive the *Journal of Aquatic Plant Management* published twice annually. Authors from around the world contribute their latest research findings on aquatic plant and algae management. Members receive quarterly issues of *Aquatics* magazine with articles on aquatic plants and control operations.

Annual Conference

The Society holds an annual conference in a different U.S. city each year for presenting papers and sharing information on the latest findings relating to aquatic plant and algae management.

Education & Outreach

APMS publishes a Newsletter three times per year to update members on issues related to aquatic plant and algae management. The Society also produces educational materials and sponsors workshops on aquatic plants and their management.

Scholarships

APMS provides substantial annual funding to support Masters and Ph.D. candidates pursuing degrees in fields related to aquatic plants and algae.

Water: an essential natural resource.
Invasive aquatic plants affect water adversely in the following ways:

- Block navigation**
- Impede flood control**
- Hinder fishing and other recreational activities**
- Provide mosquito breeding sites**
- Stunt fish populations**
- Accelerate sedimentation and lake aging**
- Degrade native plant habitat**
- Impede potable water, irrigation, and hydropower supplies**
- Harmful algae blooms foul water supplies, produce toxins and cause fish kills**



Aquatic Plant Management Society



www.apms.org

INTRODUCTION

The Aquatic Plant Management Society, Inc. (APMS) is a non-profit international organization of scientists, educators, field technicians, students, administrators, and concerned individuals interested in the study and management of aquatic plants. The membership reflects a diverse assemblage from government agencies, universities and colleges, corporations and small businesses from around the world. Our **Vision** is to be the leading international organization for scientific information on aquatic plant and algae management.

HISTORY

Originally the Hyacinth Control Society, Inc. when founded in 1961, APMS is a respected source of expertise in the fields of biological, mechanical, chemical, and cultural aquatic plant and algae management. The Society has grown to include several regional and state chapters. Through these affiliates, annual conferences, newsletters, and the *Journal of Aquatic Plant Management*, members become aware of the latest developments in aquatic plant research and control.

MISSION

The **Mission** of the APMS is to provide a forum for the discovery and dissemination of scientific information that advances aquatic plant management policy and practice.

Objectives:

- Promote scientifically sound strategies in aquatic plant and algae management,
- Encourage scientific research,
- Provide for the scientific advancement of Society members,
- Promote university scholarships and other educational assistance programs,
- Publish meritorious research and other information pertinent to algae and aquatic plants and their management,
- Develop and extend public interest in aquatic plant sciences,
- Cooperate with local Chapters and other organizations with related interests.

Members stay informed of national programs and policies through APMS affiliations with:

- Bass Anglers Sportsman's Society
- Council for Agricultural Science & Technology
- North American Lake Management Society
- Responsible Industry for a Sound Environment
- Weed Science Society of America
- Women of Aquatics₅₁

MEMBERSHIP

Join the Aquatic Plant Management Society online at www.apms.org or complete this form and mail your check along with the application to:

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

Name: _____
Address: _____
City: _____ State: _____
Country: _____ Code: _____
Work Phone: _____
Fax: _____
E-mail: _____

Please check the membership class below for which you are applying:

☐ **Individual**.....\$95.00*
Entitles member to vote, hold office, serve on committees and receive publications.

☐ **Student**.....\$20.00
Full-time students receive same privileges as Individual member.

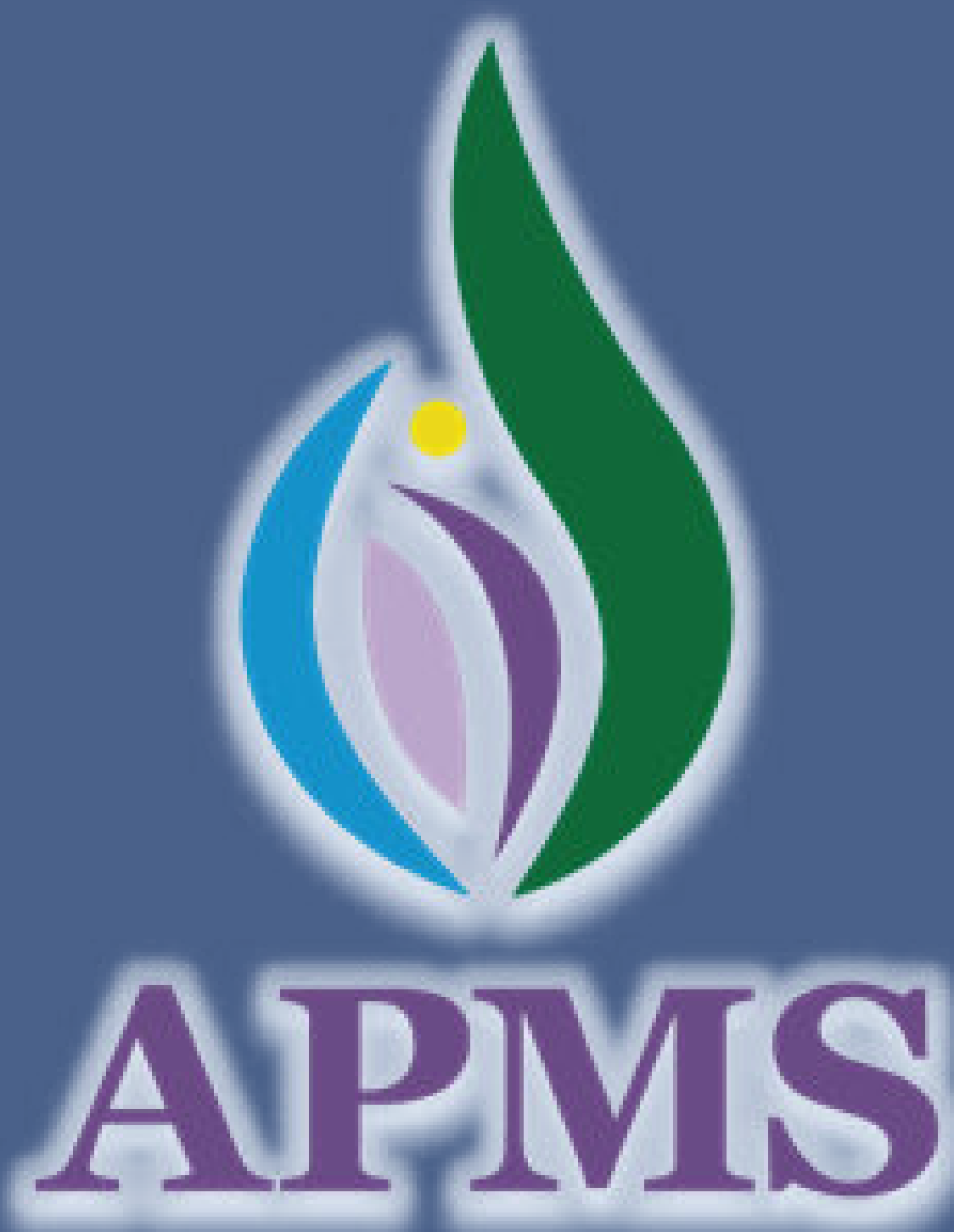
☐ **Sustaining**.....\$500.00**
One person of company or group receives same privileges as Individual member.

Amount of Remittance: \$ _____

*20% to Scholastic Endowment Fund

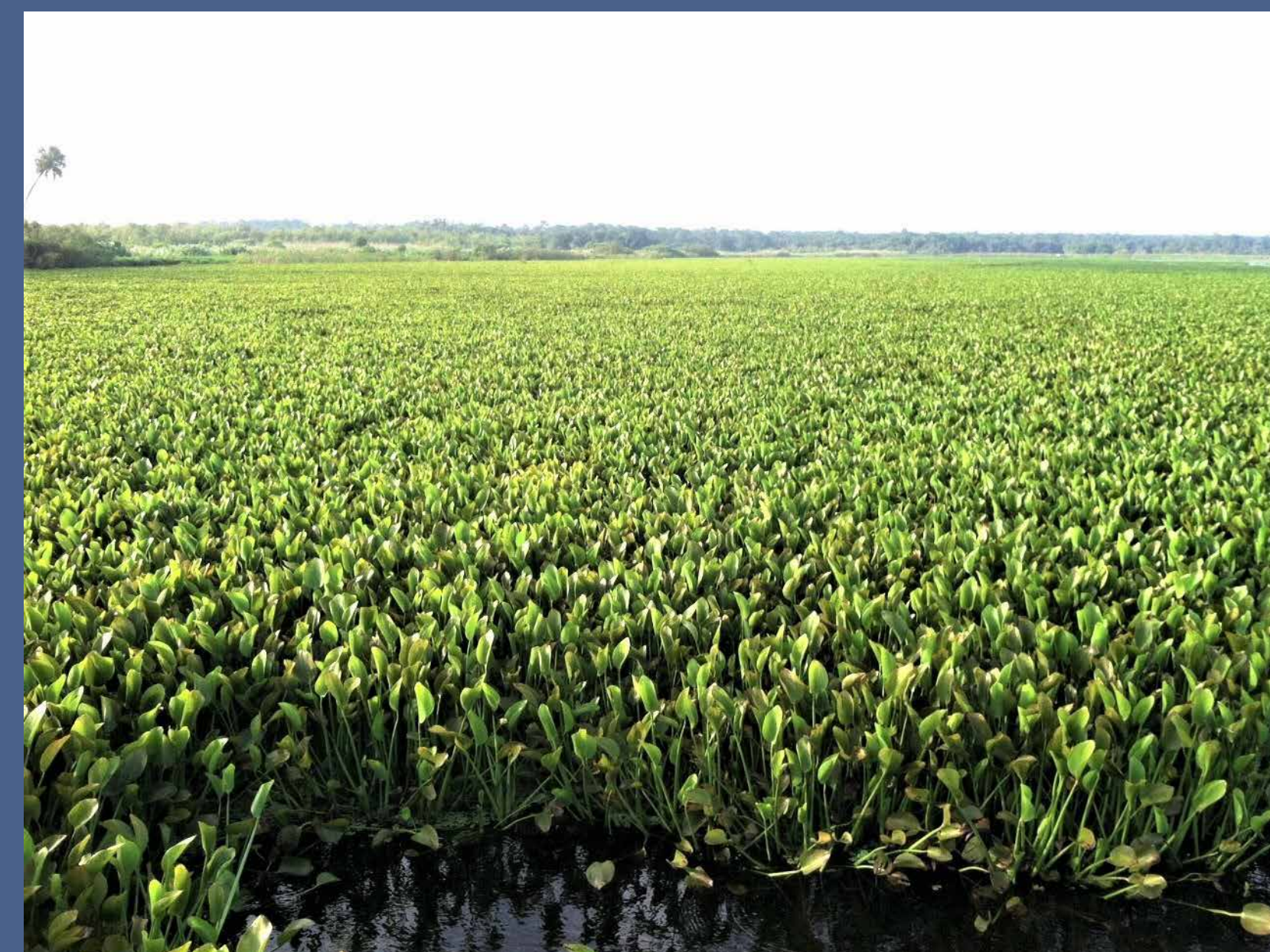
**50% to Scholastic Endowment Fund

Aquatic Plant Management Society, Inc.



Founded in 1961, the Aquatic Plant Management Society is an international organization of scientists, educators, students, resource managers and other concerned individuals interested in the study and management of aquatic plants and algae.

Problems



Water Hyacinth



Flowering Rush

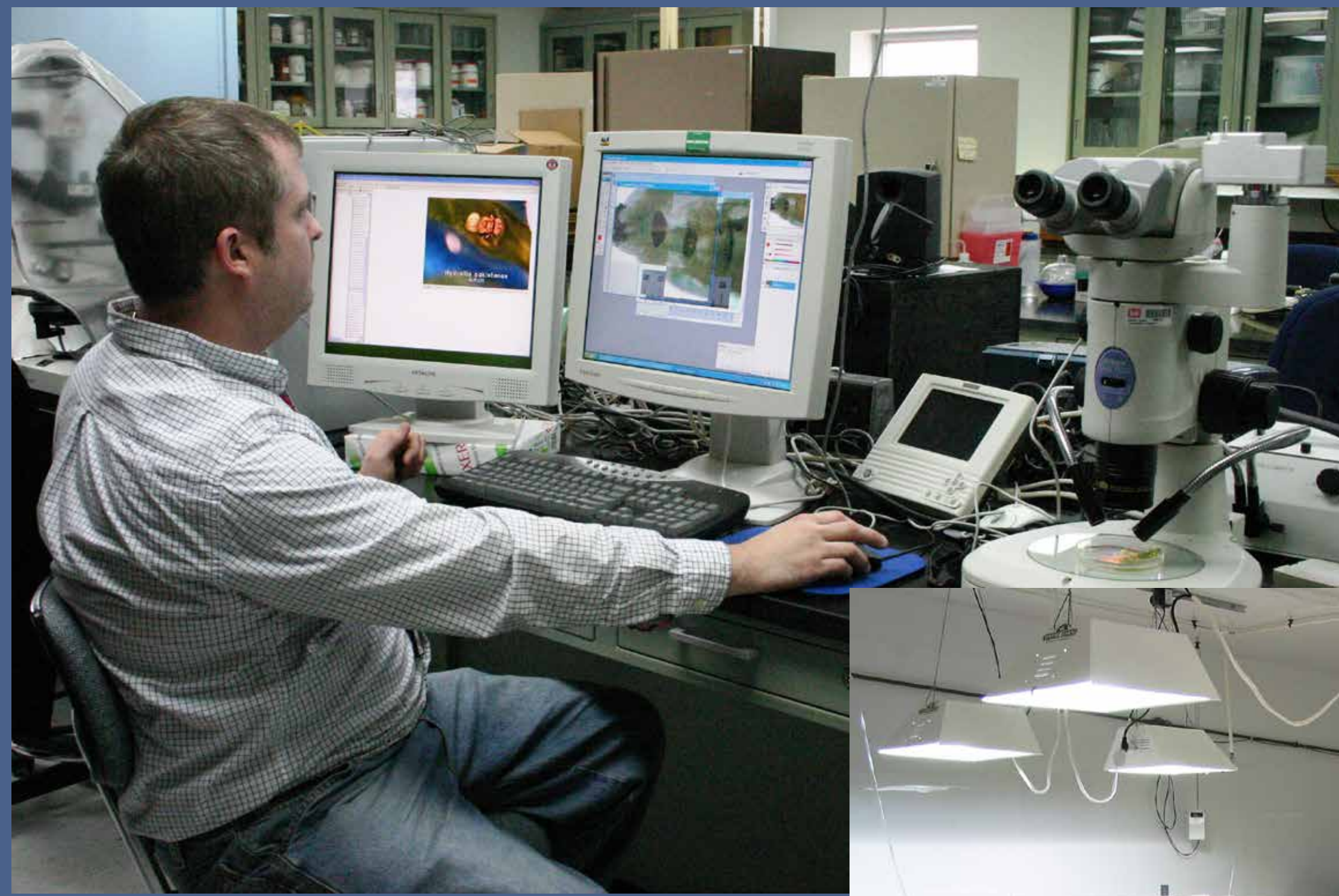


Hydrilla



Filamentous Algae Mat

Research



Hydrilla Mat Covered with Algae - Before Management



Management

The Aquatic Plant Management Society is a respected source of expertise in aquatic plant and algae biology, ecology and physiology as well as biological, chemical, cultural and mechanical control methodologies.



Biological - insect that eats purple loosestrife



Chemical - water lettuce maintainance



Cultural - prescribed fire after frost



Mechanical - harvesting coontail in New Zealand

Objectives of the APMS include advancing knowledge and management of nuisance and invasive aquatic plants and algae through:

- Sharing scientific research findings,
- Developing and promoting management strategies,
- Providing graduate student research grants,
- Sponsoring the development of educational curricula and materials,
- Extending public understanding.

Education

Members stay current with the latest developments in aquatic plant and algae ecology and management through annual conferences, newsletters, Aquatics magazine and the Journal of Aquatic Plant Management.



For membership information:
www.apms.org

Open Water -
After Management





Aquatic Plant Management Society

Promoting environmental stewardship through operations, research, education and outreach

July 15, 2019

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

From: Dean Jones

Subject: Exhibits Report

Committee Members: Dean Jones and Todd Olson

Exhibitors

Twenty six exhibitors attended the 2019 APMS meeting in San Diego, CA including 24 representing industry and two nonprofits, APMS and NALMS. The total income generated for APMS from Exhibitors is \$18,400. Exhibitor participation is up from Buffalo but slightly less than the 2017 meeting in Daytona Beach, Florida.

Sponsors

Eighteen sponsors contributed to the 2019 APMS meeting in San Diego, CA including one Platinum Sponsors (UPL) and two Gold Sponsors (Applied Biochemists and Syngenta). There were also three Silver Sponsors, three Bronze Sponsors, eight Contributors and one anonymous donation of \$2,489. The total income to APMS from sponsors for the 2019 Annual Meeting was \$53,389.

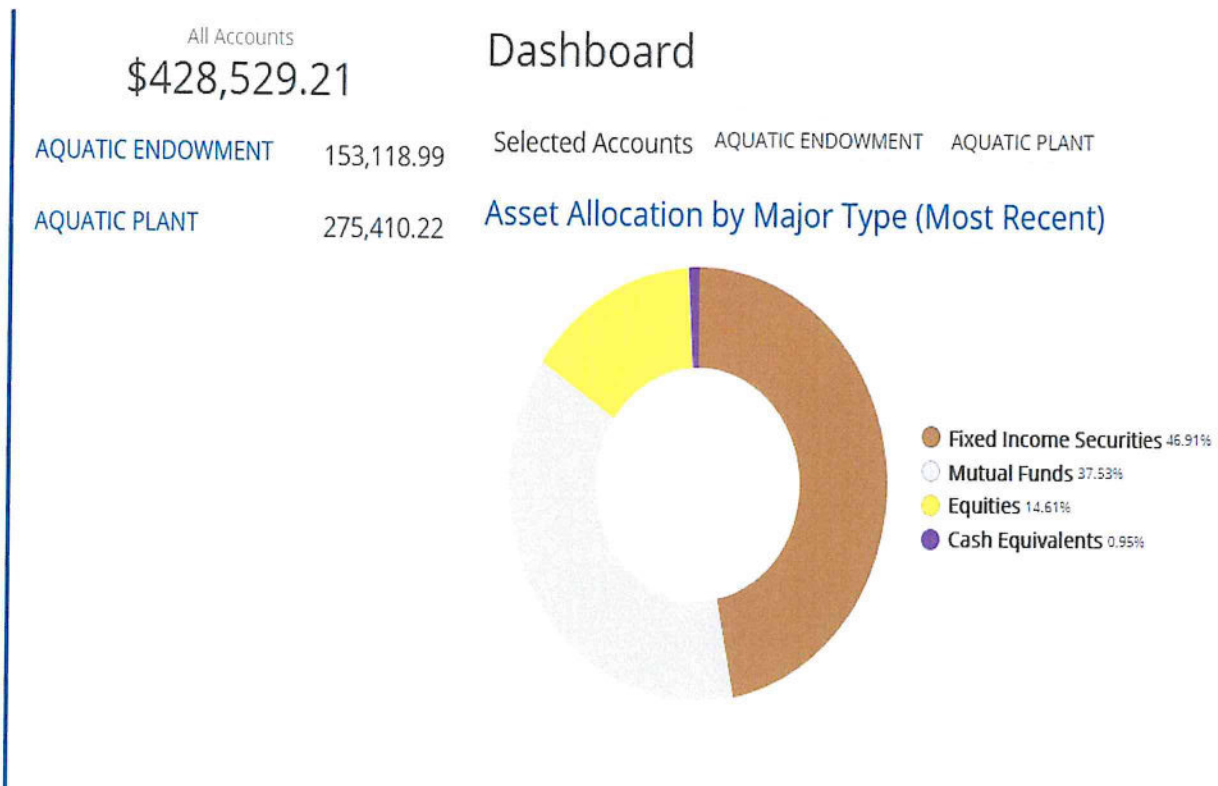
Historical Summary

The total revenues generated from exhibitor and sponsor participation for the 2019 meeting is \$71,789. The following tables provides a comparison for sponsor and exhibitor contributions over the last 10 years. This year's numbers closely align with the 10 year average.

			Funding Source, Amount & Percentage for Meeting							Meeting Cost Analysis		
Year	Venue	Attend	Sponsor	%	Exhibitor	%	Registration	%		Income	Expense	Net
2019	San Diego		53,389		18,400							
2018	Buffalo	201	56,183	55	14,400	14	31,315	31		101,898	83,134	18,764
2017	Daytona Beach	217	71,065	56	18,400	14	38,880	30		128,345	80,447	47,898
2016	Grand Rapids	172	45,360	52	15,400	17	27,021	31		87,781	64,406	23,375
2015	Myrtle Beach	248	47,712	43	18,200	16	45,620	41		111,532	121,644	-10,112
2014	Savannah	213	49,739	47	19,600	19	36,495	34		105,834	95,588	10,246
2013	San Antonio	208	52,472	48	18,900	18	37,180	34		108,552	85,598	22,954
2012	Salt Lake City	160	50,750	52	17,500	18	29,540	30		97,790	81,839	15,951
2011	Baltimore	180	59,652	55	16,800	15	32,860	30		109,312	97,009	12,303
2010	Bonita Springs	286	74,263	54	15,505	11	48,290	35		138,058	107,099	30,959
	Average	209	56,059	51	17,311	16	36,356	33		109,900	90,752	19,149

January 2020 Finance Committee Report Andy Fuhrman Chair

APMS Accounts as of January 1, 2020



AQUATIC ENDOWMENT

[Summary](#) [Holdings](#) [Performance](#) [Transactions](#)

Account Balance **Available Cash**
\$153,118.99 **\$2,065.98**

My Portfolio Actual Allocation



Asset Class	Percentage	Market Value
Cash Equivalents	1.35%	2,066
Equities	4.79%	7,340
Mutual Funds	46.06%	70,529
Fixed Income Securities	47.80%	73,184
Portfolio Total	100.00%	153,119

AQUATIC PLANT

[Summary](#) [Holdings](#) [Performance](#) [Transactions](#)

Account Balance **Available Cash**
\$275,410.22 **\$2,023.45**

My Portfolio Actual Allocation



Asset Class	Percentage	Market Value
Cash Equivalents	0.73%	2,023
Equities	20.07%	55,283
Mutual Funds	32.78%	90,279
Fixed Income Securities	46.41%	127,825
Portfolio Total	100.00%	275,410

AQUATIC ENDOWMENT

Performance Report

Jul 2019 - Dec 2019

Asset Class: Account

Returns

Total Account
4.61%

Composite Index
0.00%

Account Performance

Beginning MV (7/1/2019)	\$147,029.60
Net Change	-100.00
Additions	0.00
Subtractions	-100.00
Ending MV (12/31/2019)	\$153,696.75
Net Change in MV	\$6,767.15



AQUATIC ENDOWMENT

Performance Report

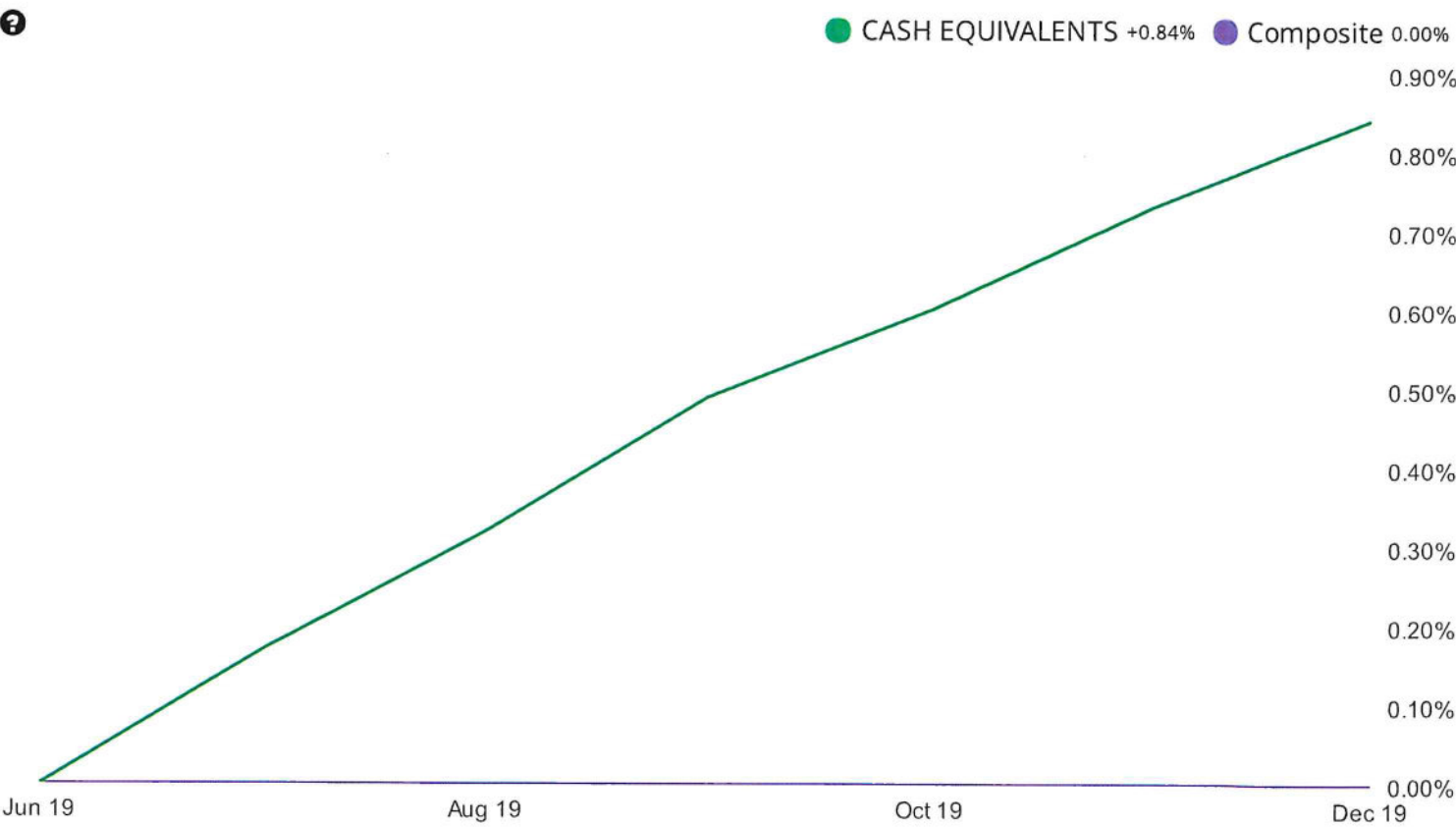
Jul 2019 - Dec 2019

Asset Class: CASH EQUIVALENTS

Returns
CASH EQUIVALENTS
0.84%

Composite Index
0.00%

Account Performance	
Beginning MV (7/1/2019)	\$2,812.10
Net Change	-741.47
Additions	21.08
Subtractions	-762.55
Ending MV (12/31/2019)	\$2,068.78
Net Change in MV	\$19.23
Income	\$21.08
Appreciation	-\$1.85



AQUATIC ENDOWMENT

Performance Report

Jul 2019 - Dec 2019

Asset Class: EQUITIES

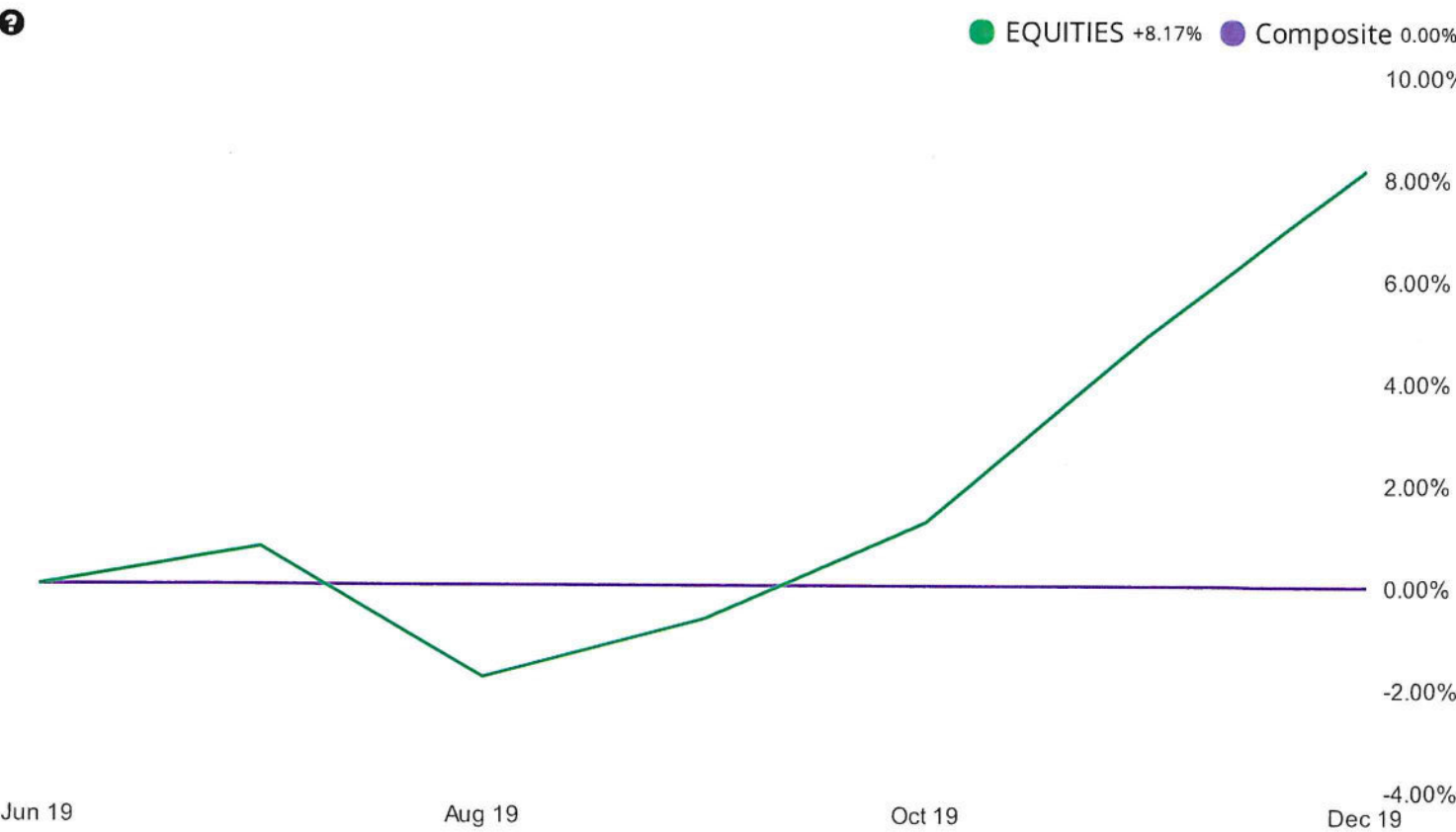
Returns

EQUITIES
8.17%

Composite Index
0.00%

Account Performance

Beginning MV (7/1/2019)	\$72,370.82
Net Change	4,027.55
Additions	4,027.55
Subtractions	0.00
Ending MV (12/31/2019)	\$78,285.72
Net Change in MV	\$5,914.90
Income	\$4,027.55
Appreciation	\$1,887.35



AQUATIC ENDOWMENT

Performance Report

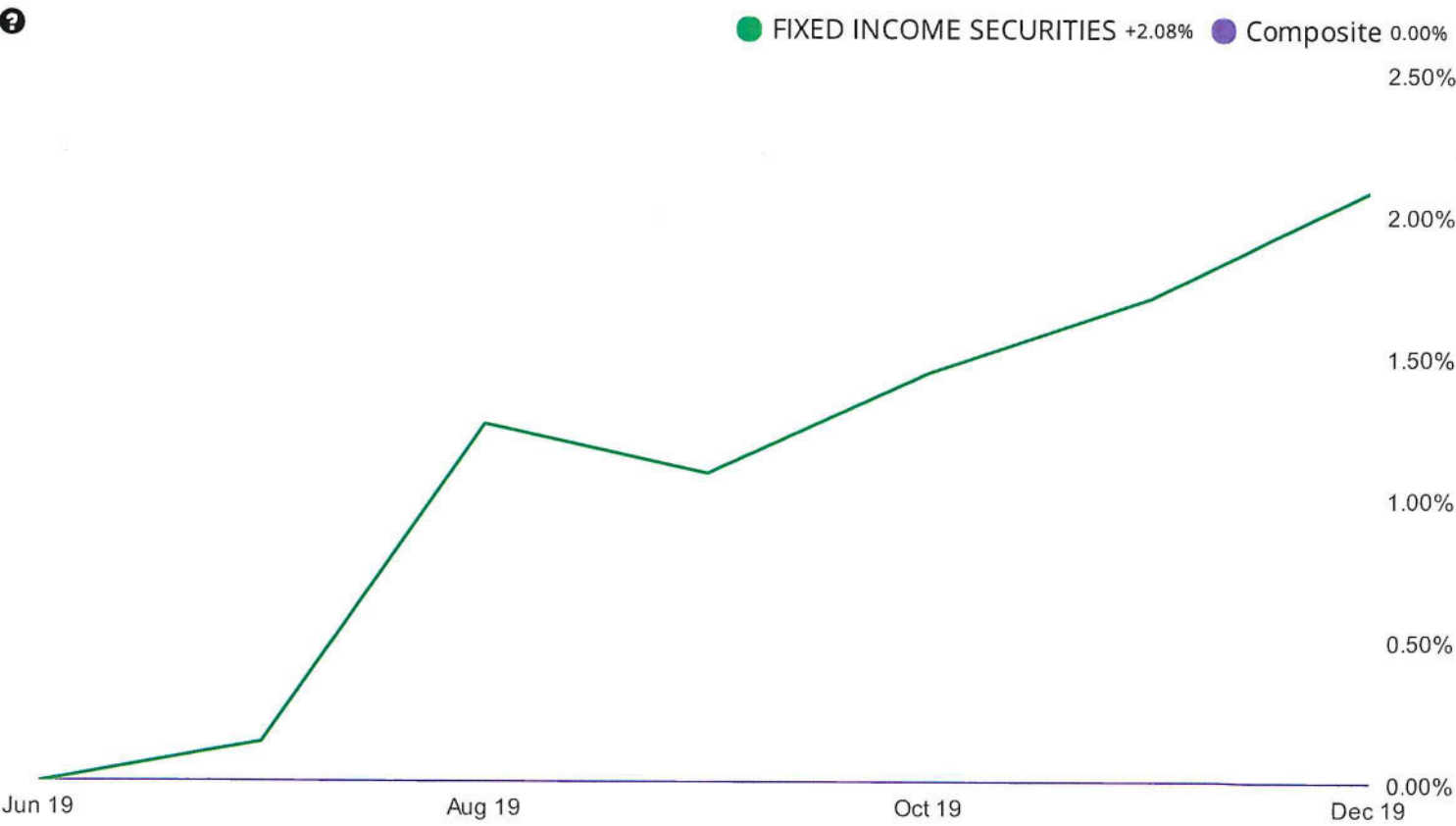
Jul 2019 - Dec 2019

Asset Class: FIXED INCOME SECURITIES

Returns
FIXED INCOME SECURITIES
2.08%

Composite Index
0.00%

Account Performance	
Beginning MV (7/1/2019)	\$71,846.68
Net Change	1,230.11
Additions	1,230.11
Subtractions	0.00
Ending MV (12/31/2019)	\$73,342.25
Net Change in MV	\$1,495.57
Income	\$1,230.11
Appreciation	\$265.46



AQUATIC PLANT

Performance Report

Jul 2019 - Dec 2019

Asset Class: Account

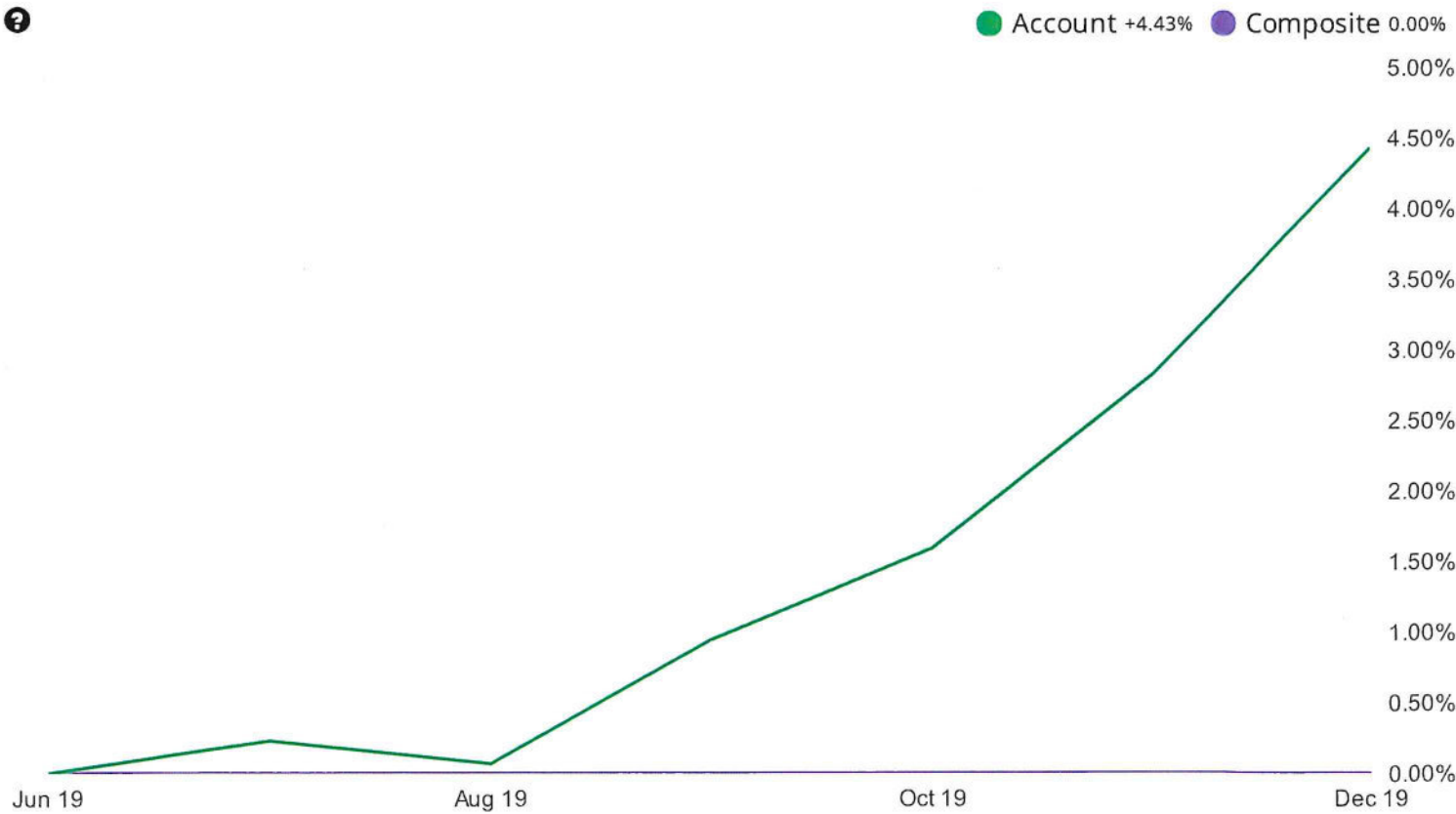
Returns

Total Account
4.43%

Composite Index
0.00%

Account Performance

Beginning MV (7/1/2019)	\$264,201.99
Net Change	-100.00
Additions	0.00
Subtractions	-100.00
Ending MV (12/31/2019)	\$275,773.23
Net Change in MV	\$11,671.24



AQUATIC PLANT

Performance Report

Jul 2019 - Dec 2019

Asset Class: CASH EQUIVALENTS

Returns

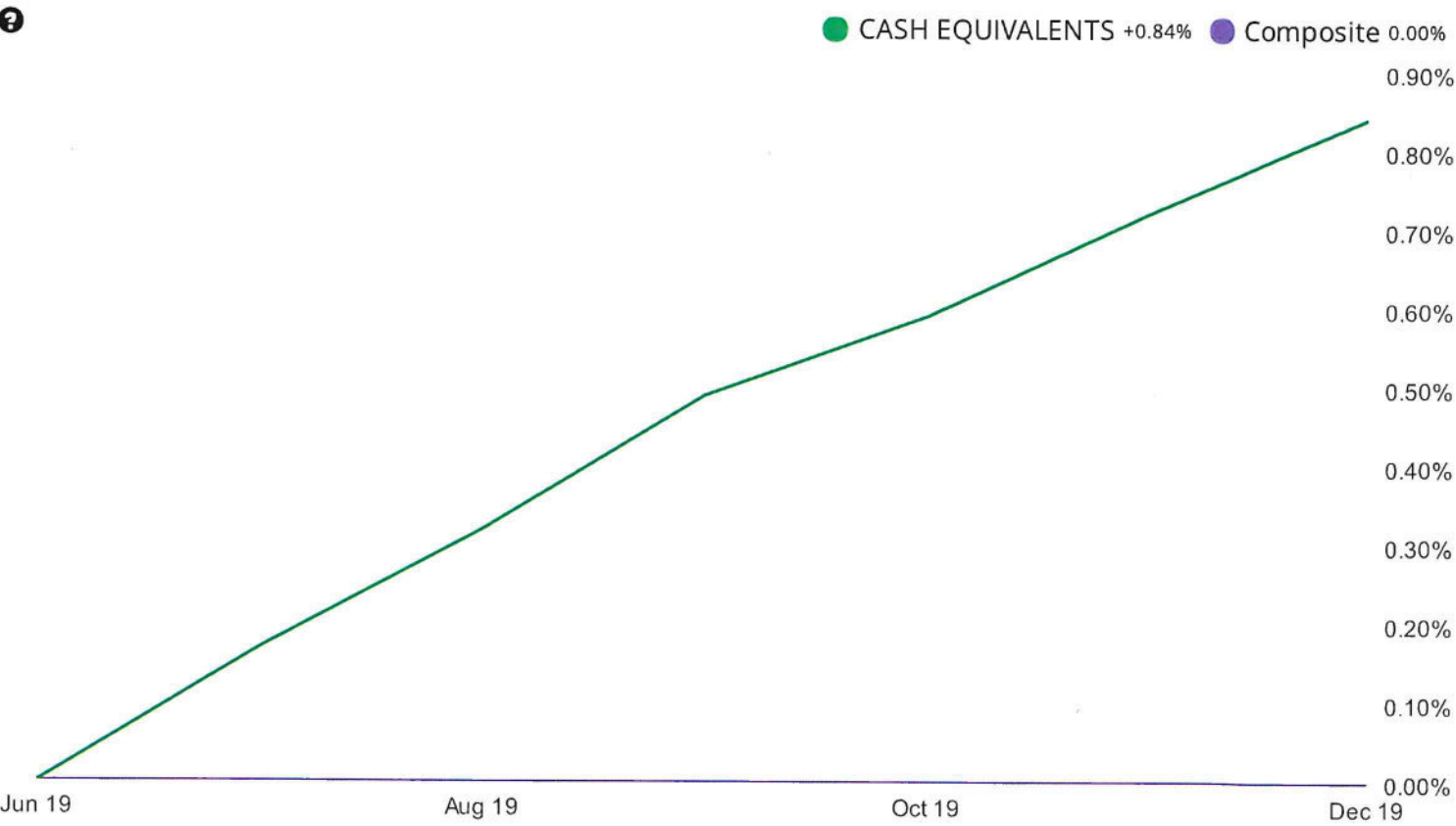
CASH EQUIVALENTS

0.84%

Composite Index

0.00%

Account Performance	
Beginning MV (7/1/2019)	\$2,474.97
Net Change	-447.51
Additions	848.85
Subtractions	-1,296.36
Ending MV (12/31/2019)	\$2,026.13
Net Change in MV	\$16.49
Income	\$17.82
Appreciation	-\$1.33



AQUATIC PLANT

Performance Report

Jul 2019 - Dec 2019

Asset Class: EQUITIES

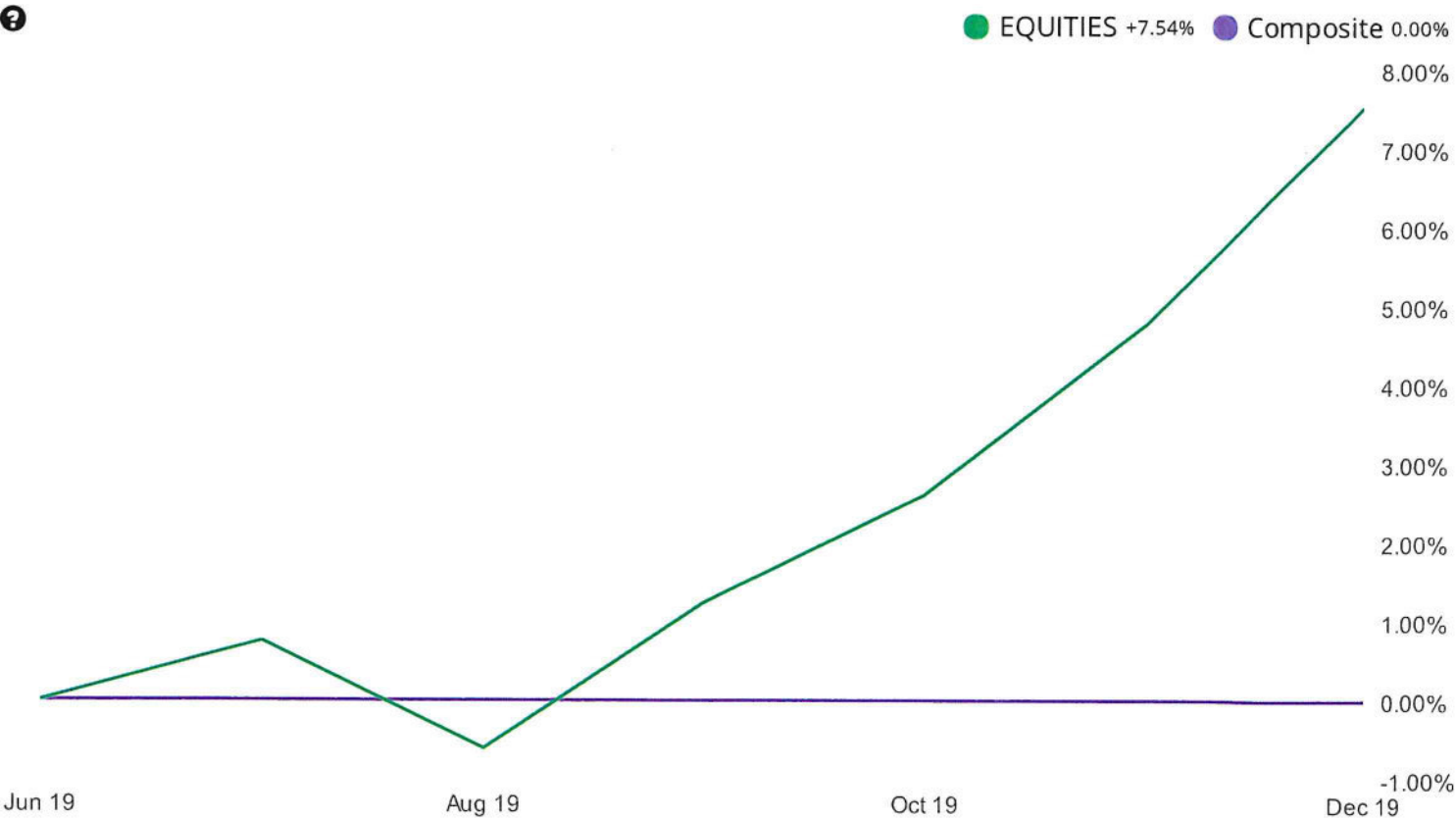
Returns

EQUITIES
7.54%

Composite Index
0.00%

Account Performance

Beginning MV (7/1/2019)	\$136,243.28
Net Change	5,192.20
Additions	5,192.20
Subtractions	0.00
Ending MV (12/31/2019)	\$145,640.81
Net Change in MV	\$10,228.56
Income	\$6,023.23
Appreciation	\$4,205.33



AQUATIC PLANT

Performance Report

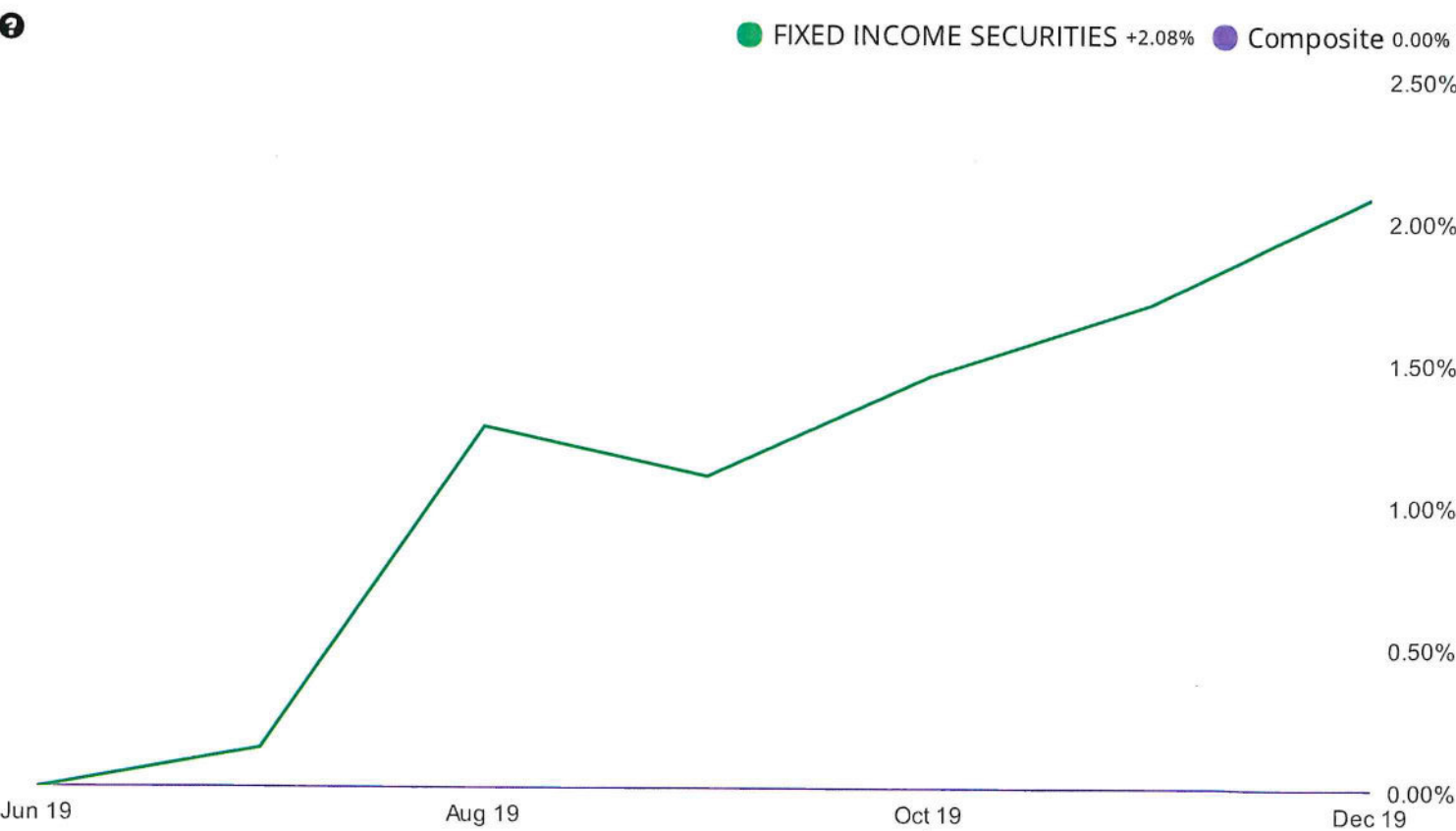
Jul 2019 - Dec 2019

Asset Class: FIXED INCOME SECURITIES

Returns
FIXED INCOME SECURITIES
2.08%

Composite Index
0.00%

Account Performance	
Beginning MV (7/1/2019)	\$125,483.74
Net Change	2,142.05
Additions	2,142.05
Subtractions	0.00
Ending MV (12/31/2019)	\$128,106.29
Net Change in MV	\$2,622.55
Income	\$2,142.05
Appreciation	\$480.50



Glyphosate

Reuters reports that Bayer “could be close to more than 75,000 cancer claims related to its Roundup herbicide, with mediator Ken Feinberg on Friday saying he was ‘cautiously optimistic that a settlement will ultimately be reached’.”

<https://www.reuters.com/article/us-bayer-glyphosate-lawsuit-claims/bayer-close-to-roundup-settlement-mediator-tells-bloomberg-idUSKBN1ZG0N7>

The EPA previously filed a brief saying that glyphosate does not cause cancer.

<https://www.reuters.com/article/us-bayer-glyphosate-lawsuit-claims/bayer-close-to-roundup-settlement-mediator-tells-bloomberg-idUSKBN1ZG0N7>

Federal charges were filed in December against one of the lawyers for a glyphosate plaintiff. He is charged with “one count each of attempted extortion, conspiracy and transmission of interstate communications with intent to extort.”

<https://usrtk.org/monsanto-roundup-trial-tacker/attorney-for-roundup-cancer-plaintiffs-arrested-on-criminal-charges/>

Diquat

Numerous changes to the diquat label for aquatic use should be expected in the near future. One proposed change that has been discussed is the requirement for applicators to wear respirators.

Visual Impact of Respirators

Jay Ferrell forwarded a video message from Congressman Brian Mast where he makes numerous negative comments about the use of aquatic herbicides. One comment was along the lines of applicators wearing respirators shows that the chemicals are not safe. This video was sent to EPA personnel that have involvement with diquat decision making.

<https://www.facebook.com/298454797193209/posts/949370605434955?sfn=mo>

APMS Meeting Planning Report – Evaluation of 2023 Venues

Bill Torres provided 10 detailed hotel comparisons to the meeting planning committee for consideration. The committee reviewed these and determined that the Hyatt Regency in Indianapolis was a good option for APMS needs. None of the other 9 options were viewed by the committee to be competitive. The committee inquired about other options which were also deemed not suitable for APMS. The meeting planning committee does recommend the Hyatt Regency for 2023. MAPMS is meeting at this venue in February and would provide a good opportunity to evaluate specific details of the venue for 2023 activities.

APMS 2023	The Tudor Arms DoubleTree	Marriott Key Tower	Hilton Indianapolis Hotel & Suites	Hyatt Regency Indianapolis	DoubleTree Minneapolis - Park Place	Renaissance Minneapolis Hotel, The Depot
CITY	Cleveland	Cleveland	Indianapolis	Indianapolis	Minneapolis	Minneapolis
Address	10660 Carnegie Ave, Cleveland, OH 44106	1360 W Mall Dr, Cleveland, OH 44114	120 W Market St Indianapolis, IN 46204	One South Capitol Avenue Indianapolis, IN 46204	1500 Park Place Blvd Minneapolis, MN 55416	225 3rd Avenue South, Minneapolis, MN 55401
Contact	Director of Sales 216-456-2680 CLEUC_DS@HILTON.COM	Annette Schatmeyer annette.schatmeyer@marriott.com 847-232-5320	Desire Garza 317-822-5851 desire.garza@hilton.com	Melissa Hebenstreit melisa.hebenstreit@hyatt.com 317-616-6068 Ashley Ostoski ashley.ostoski@hyatt.com 317-616-6084	Michael Kottke michael.kottke@hilton.com	TANYA SIEFKEN TSiefken@renminneapolis.com 612.758.7811
Info	RAI 8/4/19 & 9/24/19					
Rate	\$139.00	\$165.00	\$189.00	\$179.00	\$169.00	\$219.00
Dates	July 8 - 14, 2023	July 7 - 13, 2023	July 8 - 14, 2023	July 8 - 14, 2023	July 8 - 14, 2023	July 7 - 14, 2023
Rate pre & post conference		Yes	Yes	Yes	3 day pre & post	3 day pre & post
Meeting Space Cost		Comp	Comp	Comp	Comp	Comp
Meeting Space Sq. Ft.		4863 sq. ft.	3560 sq. ft.	7208 sq. ft.	4914 sq.ft.	19,980 sq. ft.
Meeting Space Ceiling Height		14'	9'	15'	11'	30'
Exhibit Space Cost		Comp in foyer	Comp	Comp	Comp	Comp

APMS 2023	The Tudor Arms DoubleTree	Marriott Key Tower	Hilton Indianapolis Hotel & Suites	Hyatt Regency Indianapolis	DoubleTree Minneapolis - Park Place	Renaissance Minneapolis Hotel, The Depot
Exhibit Space Sq. Ft.		4953 sq. ft.	6336 sq.ft.	8266 sq.ft.	5512 sq.ft.	19,980 sq. ft
Exhibit Table Cost		30 Comp Tables	\$25/table/One time	30 Comp	\$35/table/one-time	30 Comp Tables
Exhibit Electricity Cost			\$42.00/day/table	A standard power strip and 25' AC Extension Cable is \$42.00++ per day	\$35/table/one-time	
Food & Beverage Minimum		\$20K	\$20K	\$35K	\$20K	\$36K
Menu Price Lock- in at signing		2020 Prices	No	No	One year prior to arrival date	2022 Price
Service Charge & Tax		? + 8%	24% + 9%	25% + 9%	24% +	25% + 11.025%
Required Deposit		No deposit it is required with Direct Bill approval or Credit Card on file	20%	10% deposit is required at contract signing and 50% of the balance is due 45 days out	25% down at signing, 25 % 90 days out, 25% 60 days out, balance due 5 days prior	\$9,000 due 18 months prior
Comp Rooms		1 per 40	1 per 40	1 per 40	1 per 45	1 per 40
Upgrades		10 Upgrades to Coner Kings 1 upgrade to Suite	2 Presidential 3 King Suties	1 Deluxe suite 5 Corner Kings	5 – Suites at group rate for duration of conference	2 Suites Upgrade
Gov.t Per diem Rooms		Yes	4	8	Yes	4 rooms

APMS 2023	The Tudor Arms DoubleTree	Marriott Key Tower	Hilton Indianapolis Hotel & Suites	Hyatt Regency Indianapolis	DoubleTree Minneapolis - Park Place	Renaissance Minneapolis Hotel, The Depot
Attrition Rate		80%	80%	80%		80% Daily Attrition, or can do cumulative attrition with history to support the requested block.
Internet		Comp in Guest rooms, registration Desk & Meeting Space	Comp @ guestrooms & registration desk	Comp in guest rooms, registration table & exhibit space	Complimentary Wi-Fi in guest rooms and meeting space	Comp in Guest Rooms & Registration Desk \$200/day for meeting Space
Parking Fee		Self \$22 Valet \$35	Self \$38 Valet \$44	Valet \$45 Self \$35	Self-parking is complimentary, valet can be arranged for a fee for the service	Self \$27 Valet \$45
Mid Year Board Meeting		Yes	Yes	Yes @\$149	Yes	
Distance & Cost to Airport		12 Miles \$30 o/w	15 miles Uber \$20- 25 Taxi \$40	13 miles \$30 o/w	16 miles \$55 o/w	12 miles, 15 minutes \$45 one-way for a taxi, \$2.50 one- way for the Light Rail
Miscellaneous			Guest & Suites range from 515 - 1040 sq. ft...	See proposal for diagrams		The exhibit area is same room as the General Session at 19,980 – they offer a 16ft. pipe and drape to divide the General Session from the Exhibits

APMS 2023	Minneapolis Marriott Northwest	Hyatt Regency Minneapolis	The Ingelside Hotel	Radisson Hotel Lansing at the Capital
CITY	Minneapolis	Minneapolis	20 miles west of Milwaukee	Lansing
Address	7025Northland Drive North Minneapolis, MN 55428	1300 Nicollet Mall, Minneapolis, MN 55403	2810 Golf Road Pewaukee, WI 53072	111 North Grand Avenue Lansing, MI 48933
Contact	Vicki Sullivan vicki.sullivan@marriott.com 763-971-5573 (Direct) c/o Heather Palentcher	Bethany Gauche bethany.gauche@hyatt.com 612.596.4657	Kelly Gwiazda 608 294 3049 kgwiazda@concoursehotel.com	Emily Thompson emily.thompson@radlansing.com (517) 267-3441
Info				
Rate	\$159.00	\$219.00	\$159.00	\$142.95
Dates	July 22-27, 2023	July 8 - 13, 2023	July 8 - 13, 2023	July 8 - 13, 2023
Rate pre & post conference	3 days pre & post			
Meeting Space Cost	Comp	Comp	Comp	Comp \$150/day/function set-up fee is actually covered under the “complimentary” rental, so there is no fee for the meeting space at all!
Meeting Space Sq. Ft.	4248	3363 sq.ft.	4800 sq. ft.	4260 sq.ft.
Meeting Space Ceiling Height	14'	12'	16'	14'
Exhibit Space Cost	Comp	Comp	Comp	Comp \$150/day/function

APMS 2023	Minneapolis Marriott Northwest	Hyatt Regency Minneapolis	The Ingelside Hotel	Radisson Hotel Lansing at the Capital
Exhibit Space Sq. Ft.	5712	2500 sq. ft.	7200 sq. ft.	6971 sq. ft.
Exhibit Table Cost	\$30/table/one-time	30 comp tables	\$20/table/one time	30 Comp
Exhibit Electricity Cost	\$50/day	Daily - \$30 for power strips and extension cords.	\$25/table/day	No charge
Food & Beverage Minimum	\$24K	\$30K	\$25K	\$17K
Menu Price Lock-in at signing	Yes - 2020	10% off menu		Yes
Service Charge & Tax	24% + 7.275%	24% + 11.03%	21% + 5.1%	21% + 6%
Required Deposit	No	No deposit	\$4K at signing	No, Ditrect Billling
Comp Rooms	1 per 40	1 per 40	1 per 40	1 per 40
Upgrades	1 Presidential/VIP Suite upgrade during the conference dates 10 rooms per night upgraded to Suites at the group rate during the conference dates	10 Upgrades to suites	1 Presidential/VIP suite 10 upgrades	1 Presidential Suite 7 Suite Upgrades 1 comp room for the meeting planner
Gov.t Per diem Rooms	8 Rooms	8 rooms		8

APMS 2023	Minneapolis Marriott Northwest	Hyatt Regency Minneapolis	The Ingelside Hotel	Radisson Hotel Lansing at the Capital
Attrition Rate	80%	80%	80%	80%
Internet	Complimentary Wi-Fi in the guest rooms, exhibit space and registration area	Comp in gurst room & public spaces	Comp throughout hotel	Comp in guest rooms & Meeting space
Parking Fee	Comp	Self = \$24 Valet = \$39	Comp	Valet - \$12 Self \$15
Mid Year Board Meeting	Yes	Yes	Yes	Yes
Distance & Cost to Airport	25 miles \$70 o/w	12.5 miles Uber = \$20 o/w	26 miles Uber \$40 o/w	5.3 miles comp shuttle
Miscellaneous	Complimentary hotel shuttle to over 200 shopping and dining destinations, 5 minutes away All suite property, however, 10 upgrades to our Executive Suites	2 staff rooms @ 30% off group rate		Lansing CVB offer \$3,000 sponsorship to APMS paid at the conclusion of the conference.

Membership Committee Report January 2020

Submitted by: Marc Bellaud

APMS Membership Status

The APMS membership count was reported as being fairly stable over the past several years at the July 2019 Board meeting. A summary of the membership type for 2018 and 2019 follows:

	2018	2019
Individual	188	202
Student	37	32
Sustaining	27	25
Honorary	23	24
TOTAL	275	283

The 2019 membership total of 283 represents affiliations with approximately 151 different entities from 36 states and 1 territory of the US and 6 different countries worldwide. In an attempt to further evaluate who the membership is comprised of, the 2019 list was divided into the following 7 groupings:

University/Academia	70
Management - Applicators/Consultants	69
Industry - Manufacturers/Distribution	68
Agency - Federal/State/Municipal	42
Unknown - Lake Association/Individual	17
District - Water/Irrigation	11
Utility - Water/Power	6

There is good representation in the APMS membership amongst the 4 top groupings of University, Management, Industry and Agency. The bottom 3 groupings appear to be underrepresented and may be focus areas for future membership recruiting efforts.

Membership Committee Meeting Discussion

An ad hoc membership committee meeting was held via conference call on 1/17/2020. In attendance were Mark Heilman, Jeff Schardt, John Madsen, Sam Sardes and Marc Bellaud. The focus on the discussion was what short-term and long-term efforts should be considered to increase membership, which is a Strategic Planning Goal for the Society. Some highlights of the discussion follow:

- Jeff Schardt provided some interesting statistics from his ongoing project of scanning BOD minutes. In the early 1980s there were reports of 550-580 members of APMS. Membership of National APMS dropped as membership was lost to the regional chapters.

- Library subscriptions used to be a more significant component of the membership (\$200/subscription); this has dropped off; could be a future focus area
- It was agreed that regional chapters provide the greatest opportunity to add membership to APMS.
- 50 new members were added from the joint meeting with WAPMS in 2019. The next 3 APMS meetings are being held as joint meetings. The challenge is figuring out how we hold onto new members.
- HABs is another key focus area to bring in new members.
- Long-term the abilities of APMS to increase membership and financial support/endowment for the Michael D. Netherland grant program.

Short-Term Plan and Action Items (this year)

1. Poll of regional Society Boards to collect better documentation of Regional Society feedback on potential changes and collaborative activities (draft developed by NEAPMS Secretary Amy Smagula after interactions this fall is attached)
 - a. Need to identify and demonstrate value of increased national and regional collaboration
 - i. Shared social media coordination
 - ii. CEU coordination
 - iii. Shared meeting planning, registration, abstract submissions, program development
 - iv. Meeting software applications
 - v. Technical exchange – journal article listing, webinars
 - vi. Central administrative resource(s) accessible to all Societies to help with basic functions of the Society. This would assist Secretaries, Treasurers, Editors, etc. for individual Societies with more basic repetitive tasks to allow greater focus of their volunteer energy on more strategic initiatives while creating efficiencies (1 method/process/activity versus 8 different approaches). All Societies would need to contribute to pool resources and make this feasible (long-term goal, next 1-2 years)
 - b. Explore fee structure or funding mechanisms to support increased collaboration (long-term goal, next 1-2 years)
2. HABs as a focus area of APMS to increase awareness of Society and to increase membership
 - a. Approach university faculty involved with HAB research
 - i. Create a seed-list of university faculty from shared network, reviewing abstracts from partner societies, searching journal articles involved in HAB research
 - ii. Prepare a list of HAB-related journal articles and highlight why they've been valuable to management
 - iii. Send out personalized invitations to university faculty involved in HAB research asking them to consider joining APMS, attend and present at the conferences, and encourage their students to pursue scholarship grants
3. Continue to explore affiliate memberships with partner societies like NALMS, SLMP, Women of Aquatics, etc.
4. Finalize 501(c)(3) status for APMS

(Prepared by Amy Smagula following meeting with APMS and NALMS BOD members in November 2019)

Possible APMS Chapter Survey Questions for Determining Need for Shared Staff---And Other Collaboratives

1. What types of e-commerce platform does your chapter currently utilize for processing membership and conference registrations?
 - Cvent
 - Eventbrite
 - Wild Apricot
 - Square Space
 - U.S. Mail and checks, no card processing capabilities
 - Other
 - include free type space
2. What platform does your chapter currently utilize for managing your membership database?
 - Wild Apricot
 - Excel Spreadsheets
 - Access Database
 - Other (include free type space)
3. APMS is exploring the option of developing a staff position to be shared by the national organization and its chapters (with shared financial support for this position among these entities). This position could provide capacity to coordinate a database/registration platform for use by national and its chapters, manage 501c3 filings, and to provide support for chapters to free up time for the chapter secretary to focus on other duties. Thinking about your chapter and related duties, would the availability of a staff person:
 - Be useful to your chapter
 - Not be useful to your chapter
 - I am not sure if this would be useful or not, and would need more information
 - Free type space
4. If the above position is established, please indicate which functions you would most like support for in your Chapter:
 - Conference registration platform
 - Membership tracking
 - Membership invoicing
 - Conference planning
 - Social media management (twitter, facebook, Instagram)
 - 501c3 paperwork
 - Financial management
 - Annual audits
 - Website support
 - Education and outreach materials
 - Editorial services
 - Mailings
 - Scholarship management
 - Annual award planning- i.e. sourcing/ordering plaques and awards
 - Preparing conference packets
 - Preparing conference program layout
 - Strategic planning
 - Creating branding (logo, letterhead)

- Newsletter- editing/production
 - Soliciting sponsorship
 - Planning exhibitor participation/space at meetings
 - Developing and implementing surveys
 - Writing and/or updating bylaws
 - Other
 - Free type
5. Would a separate foundation for the Michael Netherland grant fund make it easier to donate to this fund, so that donations are fully protected and used, and donations to a non-profit more easily documented?
- Yes
 - No
 - n/a
 - Free type
6. Would your chapter be willing to consider sharing your membership lists with national APMS on a regular basis?
- Yes
 - No
 - Free type
7. Would your chapter consider a membership category that includes membership in your own chapter as well as a membership to national APMS, either at full rate for both, or a reduced rate for both?
- Yes
 - No
 - We would need more information
 - Free type space
8. Do you currently utilize a conference coordinator to plan your meeting logistics, or do you manage conference planning at the board/volunteer level?
- Yes
 - Name/Company
 - No
 - Board/volunteer level
9. If your chapter was asked to contribute to the costs of a shared staff person as described above, how much would your chapter be able/willing to contribute annually:
- <\$500-\$1000 annually
 - <\$1000-\$2000 annually
 - \$2000-\$3000 annually
 - \$3000-\$4000 annually
 - \$5000 annually
 - We are not able to contribute financially at this time

**Program Committee Chair Report
Aquatic Plant Management Society
Midwinter Board of Director Meeting
01/28/20 – Orlando, FL**

Committee Chair: Ryan Wersal

Committee Members:

Mark Heilman
Jeff Schardt
Andrew Skibow
Ben Sperry
Chris Mudge
James Leary
Jason Chapman

The 2020 meeting will be a joint meeting with TAPMS and as such, a morning session or sessions will be devoted to Texas and issues facing aquatic plant management in Texas. We are going to solicit papers that center on the theme of how endangered species impact aquatic plant management activities across the US. The Committee met via phone on 01/08/20 to discuss the program and ideas for speakers.

Jason Chapman indicated that we will likely be able to have one of the upper administrators in Texas Parks and Wildlife as a keynote speaker. Texas Parks and Wildlife has also indicated that other people from the agency will be available to give presentations. Jason will also work directly with TAPMS for talks and other logistics from the chapter.

Ryan Wersal contacted Bernalyn McGaughey and she has indicated that she will be available to talk on the subject of endangered species and aquatic plant management interactions. Dan Kenney from US EPA has been contacted, but Wersal and Kenney have been playing phone tag. Dan has indicated interest in attending the meeting and possibly contributing a talk; a follow-up phone call is being scheduled. Greg Cope at NC State also expressed interest in presenting his work but wants a reminder when the call for papers goes out. John Madsen will give his California perspective and recommended contacting Wendy Pratt who is a consultant working for CA Boating and Waterways about endangered species issues in CA (which has been done).

Jeff Schardt will be contacting Jeremy Crossland (US Corps.) and Ed Harris (Lake Toho Biologist).

Other committee members will be contacting potential speakers in their regions and urging them to submit an abstract.

Respectfully submitted,
Ryan M. Wersal, Ph.D.

Section G – Proposal Submittal Form

Proposal for Funding from the Aquatic Plant Management Society

Title of Proposal: Sponsorship of the 16th International Symposium on Aquatic Plants

Date Submitted to APMS: 2 December 2019

Entity Requesting Funds: Committee member on behalf of the organising committee of the 16th International Symposium on Aquatic Plants

Name: Dr Deborah Hofstra

Address: NIWA, PO Box 11 115, Hillcrest, Hamilton, New Zealand

Phone: +64 7 8591812

Email: Deborah.Hofstra@niwa.co.nz

Amount of Funds Requested: \$2,000 (USD)

Will Other Entities Share Costs for this Project?

We have already secured sponsorships from Elsevier Publisher (3000 Euro) and two international companies specialised in water quality sensors (each 1500 Euro).

Duration of Proposal: (i.e. one-time, annual event, ongoing program): 14-19th June 2020

Attach a Detailed Description of Benefits to APMS Membership:

This proposal requests funds from the Aquatic Plant Management Society in the form of a sponsorship for the 16th International Symposium on Aquatic Plants (16th ISAP). This is a symposium that is held every two to three years, to share scientific advances with our community and to continue to promote a collegiate atmosphere that facilitates discussion, debate and collaboration.

APMS will receive designated display space, logo advertising on the conference handbook and website, and digital promotion between sessions. Additional opportunities are available depending on the level of sponsorship. Please see <http://www.internationalaquaticplantsgroup.com/sponsorship.html> for detailed information.

The opportunity for APMS at 16th ISAP is the promotion of APMS to a wider international audience, encouraging engagement on a range of aquatic plant issues that many countries share, including invasive species impacts and management, biodiversity, ecology and conservation.

Section G – Proposal Submittal Form

Proposal for Funding from the Aquatic Plant Management Society

Title of Proposal: Sponsorship of the 2020 National Invasive Species Awareness Week (NISAW)

Date Submitted to APMS: January 20, 2020

Entity Requesting Funds: NAISMA and other NISAW Organizers

Name: Belle Bergner – NAISMA Executive Director

Address: 1123 N. Water St., 4th Floor, Office #9, Milwaukee, WI 53202, p:

Phone: 414.967.1350

Email: bbergner@naisma.org

Amount of Funds Requested: \$2,500

Will Other Entities Share Costs for this Project?

NISAW organizers are seeking to raise \$25,000 for a broad social media and other marketing campaign to reach at least 500,000 individuals. Currently, \$7,500 has been raised including \$5,000 from NAISMA itself

Duration of Proposal: (i.e. one-time, annual event, ongoing program): Feb 24-28 and May 16-23

Attach a Detailed Description of Benefits to APMS Membership:

NISAW has had a few different forms in recent history with a beginning focused on invasive weeds. There is renewed energy this cycle as a new 2-phase plan has been developed with an 'advocacy week' in DC in February as has been traditionally implemented with various degrees of success and then a link to on-the-ground education and outreach efforts at a regional and state level in late May before the Memorial Day holiday. This model look favorable and APMS has the opportunity to help sponsor the updated event. See email below for details but the wide distribution of invasive species information to the public and interaction fostered between IS coordinators and decision makers/funding sources makes this a valuable opportunity to encourage science-driven management of aquatic invasive plants as part of the NISAW content. A spring webinar on aquatic plant management and various other education and outreach opportunities are available at the \$2500 level with a narrower focus to a webinar only at a lower \$1000 level.

2020 NISAW action goals:

1. NISAW Part I: Feb 24-28 Advocacy and Education

- State invasive species coordinators and leaders meet with legislators on the Hill to discuss Appropriations to support and improve invasive species management efforts
- NAISMA promotes this beforehand and communicates results afterwards
- Webinar series provides tools for communicating with policy makers, latest techniques
- Federal agencies may or may not organize an event on the Hill or other informational session

2. NISAW Part II: May 16-23 - Local Events and Awareness

- Promote local awareness events
 - Map on NISAW.org advertises any local invasive species awareness event including "field days" for the public to learn about invasive species management
- Enable local invasive species managers - either county, state, non-profit organization or others - to connect with their elected officials and make them aware of what invasive species management looks like in the field through field days / public awareness days that elected officials attend
- Digital / social media marketing / advertising to raise national awareness of invasive species concerns
 - Goal: 500,000 individuals see NISAW invasive species awareness messaging

NISAW "Leader" Sponsor: \$2,500:

- Organization or company name and logo on [nisaw.org](https://www.nisaw.org) website
- Logo placement on awareness flyers for local events across the US
- Sponsor a webinar (direct email to webinar attendees and verbal recognition at the beginning and end of the webinar recognizes your organization as a sponsor). Logo and verbal recognition on a title slide before all NISAW webinars.
- Direct emails to 2000+ NAISMA subscribers and 10,000+ NISAW partner emails with NISAW announcements noting your organization as a sponsor. Lists include NAISMA members, newsletter subscribers, and NISAW partners
- Social media shout outs with link to your organization. Social media posts and partner websites linking to webinar series will reach 50,000+ individuals: NAISMA, NISAW, and NISAW partner social media, website, and other communication channels
- Sponsor the NISAW toolkit - a downloadable tool kit will be developed for local organizations with plug and play resources including a press release template, social media graphics, verbiage for local publications, and links to webinars and other invasive species awareness resources
- Mention in national press releases
- Additional customized recognition opportunities available. Call Belle to discuss

NISAW Webinar Series Sponsor: \$1,000

As a NISAW Webinar sponsor, you help to bring cutting edge research, the latest best management practices, and prevention tools for preventing the spread of invasive species in North America to webinar participants. Webinar attendees will come from all over the U.S. and Canada. All webinar sponsors receive the following:

- Logo and verbal recognition on a title slide before all NISAW webinars
- Logo recognition on NISAW.org
- Email to 2000+ NAISMA subscribers and 10,000+ NISAW partner emails
- Social media posts and partner websites linking to webinar series will reach 50,000+ individuals: NAISMA, NISAW, and NISAW partner social media, website, and other communication channels

APMS January 2020 Board of Directors Meeting

Report of the Strategic Planning Committee (Chair: Mark Heilman)

The 2017-2021 Strategic Plan has 4 goals:

1. Develop and adhere to a comprehensive financial management plan that aligns with the APMS mission.
2. Design and implement a broad marketing and outreach plan.
3. Increase APMS membership and annual meeting participation.
4. Enhance the society's sustainability by sponsoring student initiatives and stimulating increased job opportunities in the field.

At the end of this report, there is a review of the original activities and metrics described for each goal at the end of this report. A rough projection of what has been completed, is in progress, or remains available for action or alternative approaches is provided with the review. For those involved in any of these goals to date, please take no offense at any projection of where a goal stands...just trying to objectively calibrate on where we are on the plan and more importantly, where to go from here.

At this stage, some of the goals/activities of the Strategic Plan have transitioned from individual leadership teams to established committees or the Board itself for further direction. A brief synopsis will be provided here to facilitate Board discussion of next steps.

Goal #1 is mostly complete with the exception of developing a true endowment and associated fund-raising strategies for an enhanced Netherland APMS Graduate Student Research Grant. There are plans to gain more information this winter regarding the steps needed for a potential foundation.

Goal #2 has seen good steps forward with updating the Society logo and establishing a stronger social media presence but a full marketing and outreach plan has not been developed. There are several remaining 'doable' actions proposed in 2017 that should be considered for near-term action by the Board. Some of these overlap with activities now under consideration by both the Education and Outreach Committee and the Membership Committee transitioning out of Goal #3. A personalized invite to potential new faculty APMS members around the country, and video and social media marketing of operational benefits derived from JAPM published research as well as a general APMS marketing video appear useful steps.

Goal #3 – The Membership Committee has useful actions to consider in its report and several 2017 items have been addressed. Efforts to attract more new national members from regional chapters should be implemented and the President's Report and Membership Committee comments recommend (if not formal motions) steps tied into enhancing regional chapter partnership. Renewed interactions with NALMS are currently positive and may attract a few new members as productive discussions continue. Some steps to broaden APMS awareness with other aquatic science societies are mentioned in the President's Report. Overall, efforts for this goal should transition to the standing Membership Committee for final implementation through 2021.

Goal #4 – an update from the leadership team engaged with this goal is provided below. Good ideas are on the table for refinement and implementation, and this goal's team would appreciate Board feedback on near-term steps.

Overall, the January 2020 BOD meeting should produce valuable new actions on our Strategic initiatives, and it should be a good discussion leading to effective steps forward with high future value to the Society.

Strategic Planning Progress Report

Goal 4: Enhance the Society's Sustainability by sponsoring student initiatives and stimulating increased job opportunities in the field

Leadership Team: Brett Hartis, Ryan Thum, Sam Sardes

Implementation Progress: The team recognizes that larger goals will likely stall without awareness among the membership, thus the team has begun laying out small, achievable goals in order to initiate progress toward goal 4 within the Society. The following recommendations have been made by the team to create such progress.

Student Luncheon/ Speakers – The team believes that gaining traction with Goal #4 lies largely with the students and what their expectations are within the Society. We suggest that the speakers for the student luncheon be given more direction that will be helpful for students seeking opportunities in the broader field. This includes a prepared Q&A session with a diverse group of speakers where questions have been submitted prior to the luncheon. These questions should be solicited from the students, student board member, and the student affairs chair. Some example questions include –

- *What are some things about your work that we may not know?*
- *What does your weekly work schedule look like?*
- *What amount of freedom do you have in your job or career for exploration of your interests?*

Mentorship Program – The team also recognizes that the students could benefit from a formal mentorship program. While there is some degree of mentorship being provided by professionals in the field to students, especially those nearing graduation, we believe it would be beneficial to identify mentors willing to allocate their time to a single student. This could be an informal process, but expectations would be contact with the mentee at least once every two weeks. We believe that students with a mentor throughout their education will be better prepared for opportunities in the field as they arise.

Bringing students from other disciplines – The team continues to recognize the need to connect with students outside of our traditional member base. APMS has made a great deal of progress in targeting those within the study of algae, who have subsequently introduced student members. The Society should consider reaching across into related societies (NALMS, AFS, etc) as well as sponsor opportunities for our own students to be exposed to those Societies as well.

Undergraduate Scholarship Opportunity – The team has also discussed the possibility of offering a very modest undergraduate scholarship/ stipend for undergraduate students beginning work in aquatic plant management or associated field. Currently, the Society has few undergraduate members. Offering a small scholarship and perhaps covering meeting attendance will expose students to the Society and science at an early point in their educational career, hopefully retaining that person as a member and recruiting others to join.

Quarterly Student eNews Letter – The team has also discussed the potential for a student directed news letter that focuses on current research of students, scholarship opportunities (national and regional) and job opportunities. The newsletter would be posted to APMS social media accounts and sent to a list serv of students perhaps quarterly. This newsletter would not only reach students on the list serv but also be more visible to those students who frequent the APMS (and affiliate) social media accounts.

Future Goals: Upon board consideration and approval, the team plans to continue developing (all or some of) the above-mentioned objectives. Most importantly, the will begin working more closely with the Student Affairs Committee to find out more about the students who are currently participating in APMS.

2017 – 2021 APMS Strategic Plan



- Goal 1:** Develop and adhere to a comprehensive financial management plan that aligns with the APMS mission.
- Goal 2:** Design and implement a broad marketing and outreach plan.
- Goal 3:** Increase APMS membership and annual meeting participation.
- Goal 4:** Enhance the society's sustainability by sponsoring student initiatives and stimulating increased job opportunities in the field.

2017 – 2021 APMS Strategic Plan Goal #1



Action Steps:

- Create a two-year reserve account of dedicated funds to be used only for emergency support for meeting cancellation or relocation
- Decide the dollar amount to be held in the reserve account.
- Cycle through the currently authorized Graduate Student Research Grant (GSRG) and reevaluate the APMS budget before approving an additional grant award.
- Create a stand-alone GSRG foundation/trust to fund a sustainable program.

Complete

In-Progress

No color – progress not determined or pending

2017 – 2021 APMS Strategic Plan Goal #1



Measures of Success:

- Balanced budget for annual expenses
- \$400-500K in a GRSG endowment
- \$120,000 held in an emergency reserve account
- Adequate remaining balance available for discretionary programs

2017 – 2021 APMS Strategic Plan Goal #2



Action Steps:

- Form a five-member ad hoc committee charged with developing and overseeing implementation of the marketing plan.
- Develop a Request for Proposals for developing the marketing plan.
- Consider the feasibility of hiring a professional firm that offers a cost-effective approach for outreach.
- Define the target audiences for the marketing and outreach plan, including regional chapter members, state resource agencies, students, reservoir operators, lake associations, government agencies, and universities.
- Define and promote the APMS brand and its features and benefits. Possible YouTube video.
- Develop two annual issue case studies or review papers that highlight the APMS brand. Provide an honorarium for the selected authors.
- Design and implement a social media campaign. Consider appointing a paid social media leader under the Education and Outreach Committee.
- Post highlights of every journal article on social media.

2017 – 2021 APMS Strategic Plan Goal #2



Measures of Success:

- A minimum of 1 and a goal of 2 white papers published each year
- At least 1,000 social media impressions each month
- A minimum of 2 *Journal of APM* press releases each year
- Marketing and outreach plan developed and implemented
- Target audiences defined and priority ranked

2017 – 2021 APMS Strategic Plan Goal #3



Action Steps:

- Connect with regional chapters to compare membership lists and identify potential new members at both the regional and national levels.
- Update the membership brochure to highlight APMS membership benefits for regional chapter members and members of related professional societies.
- Offer regional members a dues discount for membership in APMS.
- Plan for offering CEUs for workshops delivered at the conference or online.
- Continue presentations at regional meetings by the APMS president
- Encourage members of related societies (e.g., NALMS) to become active member of APMS.
- Establish one or more positions on standing committees or the board for representatives from the Women of Aquatics organization.

2017 – 2021 APMS Strategic Plan Goal #3



Measures of Success:

- 20 new members (4 annually) who have not been regional chapter members
- 50 new members (10 annually) who have previously been only regional chapter members
- 15% growth in female membership by 2021
- 15% increase in conference attendance by 2021

2017 – 2021 APMS Strategic Plan Goal #4



Action Steps:

- Identify post-graduate opportunities.
- Identify internships and incentives for undergraduate students.
- Develop links between students and employers.
- Utilize social media and the membership directory.
- Contact faculty members who may have interested students
- Increase awareness of APMS in universities.
- Contact fisheries and natural resource departments
- Provide travel grants to annual meeting for undergraduate students.

2017 – 2021 APMS Strategic Plan Goal #4



Measures of Success:

- 30% of student members continue as members after graduation
- 10 undergraduate student members
- 15% of student members become employed in the field

January 28, 2020

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

From: Jeremy Slade

Subject: BASS Special Representative Report

10/2/2019

Hi Gene-

I'm reaching out to let you know that Monday September 30th was Gerald Adrian's last day with UPL. I have taken over as the Business Lead for the Aquatics group. With this transition, I was also "given" the BASS special representative positions with APMS and AERF. I know UPL, APMS, AERF and Gerald, have had a longstanding relationship, and I want to continue these partnerships. APMS and AERF plan on continuing to support the BASS conservation group at the Classic and any other venues you feel would be beneficial to promote aquatic plant management (APM) education and outreach. Gerald's last update stated BASS would have the Conservation directors luncheon/dinner and Conservation scholarship in alternating years. Is this still the case? If so, would you be willing to draft a letter to APMS and AERF describing this so both organizations can put it into their budgets. Historically, each organization has provided \$1500 each. I wouldn't expect this amount to be cumbersome on either organization for future support (I'm also the current Treasurer for APMS). We would also like to have a representative from APMS/AERF that could speak about APM at the summit and review scholarships that are submitted for BASS project grants.

I look forward to working with you and please let me know if there's anything I can do. If you have any questions please don't hesitate to reach out.

Thank you,

Jeremy Slade

Business Lead - Aquatics
662.617.4571

10/2/2019

The AERF/APMS relationship with B.A.S.S. Conservation is THE longest, and certainly one of THE most valued partnerships we have. Our Conservation Summit is in March in Birmingham and we very much want your organizations to be a part of it.

10/13/2019

Jeremy,

I would like to invite AERF/APMS to participate in the 2020 B.A.S.S. Conservation Summit at the Bassmaster Classic in Birmingham, AL on March 6-8. The AERF/APMS relationship with B.A.S.S. Conservation is THE longest, and certainly one of THE most valued partnerships we have and we hope to continue that at the 50th Anniversary of the Bassmaster Classic.

We are tentatively planning two 1/2 day sessions on Saturday and Sunday and hope to have an extensive discussion of invasive species issues, including plant related problems (and solutions). I would like to have your organizations represented and think having someone that can present an overview of invasive plant management strategies would be very helpful and informative. I hope to have more detail available on our agenda in the next month to six weeks.

In addition to providing a speaker for the conference we would very much welcome AERF/APMS support of the overall conference with a sponsorship of a luncheon or our coffee breaks. I am still working with the hotel on costs but hope to be able to provide estimates very soon.

Please let me know if your organizations would like to be a part of the Summit and continue our great partnership.

Thanks for your continued support of B.A.S.S. Conservation.

Gene Gilliland
B.A.S.S. Conservation Director
405.317.9488
ggilliland@bassmaster.com

10/24/2019

Jeremy we really appreciate the AERF/APMS partnership and the organizations' willingness to stay engaged with our B.A.S.S. Nation conservation efforts. I'm still waiting on my Birmingham folks to provide details about the hotel and catering but we would love to have AERF/APMS sponsor a luncheon and provide a speaker for our session on invasive species management.

That said... what Gerald and I landed on a couple of years ago was that in odd numbered years, AERF/APMS would provide up to \$3000 for B.A.S.S. Nation aquatic plant management grant(s) to be advertised during the summer with a late fall deadline and winner(s) announced the following spring at the Classic Conservation Summit. We had a panel of folks reviewing the proposals (Gerald, Carlton, Mike Netherland, me) and deciding how to award the funds. Then on even numbered years when we hold the Summit, the organizations would support the conference with a similar level of funding for a luncheon or other function.

Gerald and I discussed this back in January but somehow we missed communication and did not get an RFP issued for 2019. If your folks would still like to award a grant for 2019 (presented at the 2020 Conservation Summit), there is still time to issue the invitation and get proposals judged before the Classic in March. I don't think there are too many of our state or local affiliates working with aquatic plants so the pool of applicants might be pretty small and easy to score. If AERF/APMS needed to show the grant spending in 2019, it could be sent to B.A.S.S. and we would hold and disburse it the following March at the Summit. Then your 2020 contribution would go towards the conference luncheon.

1/10/2020

Jeremy

I thought I'd send this ahead of a call so you could look it over. Here are some details on the Conservation Summit.

March 6-8, 2020 we bring our B.A.S.S. Nation state Conservation Directors and State Fisheries agency representatives together for our biennial Conservation Summit, held in conjunction with the Academy Sports + Outdoors Bassmaster Classic presented by Huk in Birmingham, Alabama. We anticipate attendees from over 35 states. I know AERF/APMS has funded previous projects with several of our CDs.

We start on Friday evening with a reception sponsored by the American Sportfishing Association, then a Saturday morning working session, a luncheon and our Conservation Awards Banquet sponsored by Yamaha. Sunday, we continue with another half-day session, adjourning in time for attendees to catch the Outdoor Expo and take in the final weigh-in or begin their travels home.

There are several opportunities for AERF/APMS involvement. We very much want participation in the discussion we will have surrounding aquatic plant management. It is a HOT topic all over the country and I want to educate our attendees on the issues. I plan of a session either Saturday or Sunday to tackle this topic and it might work best if we had a presentation from your folks to kick off some regional round-table discussions (since the issues are not all the same in different parts of the country). Another option is to have a speaker during the Saturday luncheon but we adjourn right after that for the afternoon weigh-in and that leaves no time for real discussion and interaction.

I believe you said that each organization could provide up to \$1500 (\$3000 total) which would work well to sponsor one of the morning continental breakfast/coffee breaks or the "grab-and-go" box lunch we provide on Sunday (in lieu of a sit-down luncheon so attendees have more time to visit the Expo). As a sponsor, AERF/APMS will be recognized with signage, on our program and promotional materials and in follow-up articles on Bassmaster.com and in B.A.S.S. Times magazine (Robert Montgomery will be in attendance as our media person).

I don't know if AERF or APMS has such but we will have a large space right in the meeting room suitable for informational or product displays that will be available too.

Regarding lodging, I can add your folks to our rooming list and they can pay the hotel directly on check-out. I will need a registration form (attached) for each attendee with arrival and departure dates. Please look this over and give me a call at your convenience.

*Gene Gilliland
B.A.S.S. Conservation Director
405.317.9488
ggilliland@bassmaster.com*

SCOTT ON THE LINE

Hydrilla: Friend Or Foe?



It might surprise many members to learn that the Bass Anglers Sportsman Society has signed a cooperative agreement with a coalition whose mission is to control exotic plants — namely hydrilla.

After all, plants are vital to supporting a healthy aquatic ecosystem, and we're well aware of how much they can help improve bass fishing.

Natural resource officials charged with managing the recreational and commercial interests of our waterways have a different view. They consider hydrilla harmful to the vitality of fish, saying it endangers the diversity of native plant life.

The Aquatic Plant Management Society Inc. (APMS) is the organization with which we signed the agreement. We did so to call attention to the issues associated with managing exotic plants. The APMS is represented by scientists, educators and resource managers concerned about the threat exotics pose to our waterways.

Hydrilla can be good for bass fishing. It has revitalized fishing on old, over-the-hill lakes, especially during the early stages prior to its full-scale invasion of a fishery.

But its effects are not all good. When it dies off, for example, oxygen levels are reduced and fish kills are possible. Because

it grows so fast, hydrilla can quickly change from being a good thing for bass fisheries to too much of a good thing for bass. And that is why we are working with the APMS.

Hydrilla is able to reproduce from any fragment of the plant. A mere sprig floating on the surface can grow up to 3 inches a day after taking root. It can also grow longer and deeper and with less light penetration than most other plants. Allowed to grow out of control, hydrilla can "smother" a fishery and even block navigation.

Other effects were seen at Lake Kissimmee, Florida's third-largest inland lake. Kissimmee originally was a shallow sand bowl with open water in the center and extensive beds of "Kissimmee grass," bulrushes, lotus, water lilies, eelgrass and pickerel weed around the edges. The shallows were hard-bottom and easy to wade, and the fish were concentrated in the shoreline cover provided by this host of native plants.

Hydrilla eventually displaced most of the native species, which led to less variety among both plants and animals. And the hard bottom was replaced by layers of muck. Before hydrilla, the bass reportedly were easy to catch from the sparse growths of native vegetation. Now, they're spread out all over the lake, including areas that hydrilla has made inaccessible to boats.

Fortunately, Lake Kissimmee is on the rebound, thanks to a multiagency task force assigned to correct the problem. A draw-

down of the lake is underway and should reduce the hydrilla coverage and restore the lake bottom.

Not only is it costly to control hydrilla at places like Kissimmee, the use of biological and chemical controls is controversial. Scientists are embroiled in an ongoing debate over the potential threats to public drinking water and fisheries resources posed by chemical herbicides. And anglers and biologists worry about overstocking grass carp — the most effective biological control.

By working with APMS and various government agencies, we hope to have a positive influence on how and to what extent exotic plants are controlled. Our first goal is to obtain healthy fisheries. If that is reached, good fishing will naturally follow.

For our part, we are committed to getting the word out to encourage B.A.S.S. members to take great care not to transplant exotic weeds into waters where they don't already exist. Accidental introductions could mean millions of dollars in expenses at some future date — tax money that ought to be spent on improving our great sport of bass fishing.

Sincerely,

Ray Scott, President
Bass Anglers Sportsman Society

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APMS Winter Board Meeting Report

From: Terry McNabb, NALMS representative

About four years ago, there was significant activity to get NALMS, APMS and the American Fisheries Society to align their missions where it made sense. This led to a special session the year I was president of NALMS in Tampa during the Annual Meeting. The session was introduced by Dr. Mark Hoyer of UF, presentations were made by myself for NALMS, Mike Netherland then Current President of APMS and the American Fisheries society. This led to discussion and a number of areas where there might be benefits of cross pollination. A letter or article was published in each organization's primary magazine or newsletter. While there had been some small steps in this direction since, many of those objectives remained unfulfilled.

This past year prior to NALMS, several board members of NALMS expressed interest in renewing this focus. We now have members of NALMS on the board that are also APMS and/or regional APMS chapter members or board members. Mark Heilman has been striving to do likewise.

In September I reminded these groups that we had gone through that process previously and didn't need to start from scratch and provided copies of the various articles from Lakeline and Aquatics magazine.

<http://z0ku333mvy924cayk1kta4r1-wpengine.netdna-ssl.com/wp-content/uploads/LakeLine/35-1/Articles/35-1-12.pdf>

<https://fisheries.org/2015/07/improving-communicationcooperation-among-aquatic-professional-societies/>

<http://www.fapms.org/aquatics/issues/2015spring.pdf> See page 12

In addition, Mark Heilman thought this might be good avenue for cooperation with our groups regarding HAB problems nationwide as our two societies focus on this.

This led to a couple of meetings during the NALMS 2019 event in Burlington VT (first time I've been back since my presidential year at APMS when we held our meeting there). One of the key missions we discussed was working to become a resource for HAB work nationally.

We agreed to once again publish a follow up in each society's primary publication, Mark Heilman has submitted article for NALMS LakeLine and I believe they have done the same for Aquatics. Mark can also discuss the ideas he has been leading regarding HAB cooperation.

Mark's submittal is found here.

NALMS-APMS Partnership Renewed!—A Letter from Mark Heilman, President of the Aquatic Plant Management Society

Happy New Year . . . and Happy New Decade from the Aquatic Plant Management Society (APMS)! In the middle of the last decade, leaders from NALMS, APMS, and the American Fisheries Society advocated for better partnership between the three Societies to promote the science and practice of lake management. Each Society recognized that effective collaboration could benefit members of all Societies and the wider discipline of aquatic resource management. A variety of potential actions were identified . . . some of which were implemented but several that were not:

- Sharing publications (magazines) among respective memberships
- Use each society's strengths towards a common goal by better communication
- Hold special symposia and/or joint chapter meetings
- Explore the potential of a bundle membership for multiple societies
- Share information about aquatic plant management
- One Executive Board member from each society establish some form of regular communication together, and report back to their respective boards
- Provide space for each other's updates in each other's magazines
- Link to each other's websites
- Have a liaison for each group recommend a session of talks for the other meetings, to ensure each meeting has something for everyone
- Use of a common publishing platform to improve sharing of resources

In the last few years, there has been improved interaction between NALMS and APMS in particular but not yet at the level envisioned by past Society leadership. NALMS and APMS have provided complementary booth space to their partner Society at respective conferences, and there is better emphasis to include technical content relevant to each Society's interests at annual meetings. APMS has for many years had a formal *NALMS Special Representative* report information to its Board of Directors. Terry McNabb (NALMS and APMS Past President) has served in that role recently. Several years ago, APMS also officially recognized algae/cyanobacteria control as part of its technical mission. There is greater opportunity for partnership, particularly as harmful algal blooms (HABs) pose an ever-increasing risk to the quality of aquatic ecosystems.

Both Societies are in a strong position to work together to provide technical guidance on methods to mitigate HABs and increase HAB awareness among water and public health professionals, their ecological and economic impacts, and increasing human health risk. The NALMS mission to “*forge partnerships among citizens, scientists, and professionals to foster the management and protection of lakes and reservoirs for today and tomorrow*” resonates strongly with APMS efforts to “*provide a forum for the discovery and dissemination of scientific information that advances aquatic plant and algae management policy and practice.*” The NALMS Executive Committee and APMS leadership again met informally at the recent NALMS conference in Burlington to dialogue about the status of partnership efforts. The positive conversation recognized potential advantages of renewed collaboration and identified several short-term actions to consider including:

1. a possible joint Society working group in 2020 to develop a collaborative technical brief or white paper on ‘*in-situ*’ methods to manage HAB and the excess nutrients driving this problem,
2. affiliate membership opportunities and how they might generate new benefits to each Society's membership,
3. more consistent, joint updates in Society magazines and newsletters.

In conclusion, I would like to thank the NALMS Executive Committee for their interest in renewing partnership efforts with APMS, and recognize past Society leaders such as Mark Hoyer and Terry McNabb for their perspectives. NALMS and APMS have diverse professional memberships with strong expertise in direct actions to enhance aquatic resources. Waters around the world are under extreme pressure from HABs and aquatic invasive species, and our two Societies—working better together—can help define new, improved ways to protect and restore water quality for the benefit of all. In a new decade, APMS looks forward to working with NALMS on this vitally important effort.

Mark A. Heilman

Mark A. Heilman, Ph.D.

APMS President



RISE Aquatics Committee Mid-Year Update

Sam Barrick, January 17, 2020

- Continued Progress indicated by EPA Administrator Andrew Wheeler that the WOTUS replacement rule could be released in January 2020. The Waters Advisory Coalition (WAC) which RISE is a member of is expecting ferocious push back from those against the replacement rule. WAC has anticipated this and recently interviewed public relations firms to find the right fit for pro replacement rule messaging. Currently the leading idea is to pick “spokespeople” who have fought against WOTUS using facts to show that this replaced rule was a tremendous over reach of the law. Plans and firm expected by end of November.
- Aquatics Committee Members have been working on creating RISE (Harmful Algal Bloom) HAB messaging with FleishmanHillard for a variety of proactive and responsive future uses. The Key Messaging White paper has been created to highlight there are proven solutions to protect families, pets and communities from harmful algal blooms that can cause sickness in both humans and pets. The White paper outlines Key messages for talking points and discusses 5 Algal Management sections including:
 - 1. Take you Water Back
 - 2. Safety
 - 3. Harmful Algae Bloom Species
 - 4. Causes of Harmful Algal Blooms
 - 5. Harmful Algal Bloom Prevention
- Aquatics Committee Members have worked with FH to created Op-Ed articles for FL to continue to acknowledge the importance of invasive weed management.
- A New President was hired by RISE and started December 16, 2019, Megan Provost. Provost holds a Bachelor of Science in agribusiness and a Master of Science in agricultural economics from Oklahoma State University and a law degree from The George Washington University Law School. She joins RISE from Farm Foundation where she was vice president of policy and programs and most recently was interim co-CEO. Before joining Farm Foundation, Provost served agriculture and the specialty industry as U.S. government affairs manager at Dow AgroSciences, LLC, and in that role was a RISE volunteer leader, chairing the association’s Legislative Affairs Committee. She has also worked as legislative assistant to Senator Richard Lugar; special assistant to the Administrator, U.S. Department of Agriculture, Foreign Agriculture Service; and Trade and Southern Crops Economist at American Farm Bureau Federation.

**Women of Aquatics
APMS Board Book Report
January 2020**

Submitted by Amy Kay

Women of Aquatics Mission

Together we promote all women of aquatics, now and in the future, through inspiration and support to continually pursue their ambition and potential both professionally and personally.

Values

Celebrate & Inspire, Challenge the Status Quo, Promote Community

Areas of Focus

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

Goals & Progress

- **WOA Exhibiting and Events:** 2020: WOA will be exhibiting at the SLMP conference as well as presenting “Women of Aquatics: from concept to fruition”. Other 2020 exhibiting opportunities and events include MAPMS, WAPMS, Illinois Lakes Management Association, Indiana Lakes Management Society, Florida Short Course and others throughout 2020 with a focus on increasing members and sponsors. The first WOA Members retreat will be held in Orlando following the SLMP conference. The retreat is setup on a Friday evening to Sunday morning schedule with Saturday being a full day of personal and professional development along with technical practices (sessions facilitated by the WOA BOD), the retreat is for active members only and the cost is \$250 which includes lodging and most food and beverage for the weekend.
- **Membership:**
 - \$50 annual professional membership, \$50 affiliate membership, \$25 annual student membership, \$25 annual student affiliate membership. Payments can be accepted via cash, check, credit card and PayPal.
 - Annual membership includes:
 - WOA meeting event at APMS, it’s chapters and any other approved (by the board) WOA meetings that may take place on the local/state level (For example, Wisconsin Lakes Partnership); Specialized directory of contacts; Option to participate in a mentorship program; Invitation to Women of Aquatics Members Retreat; Women of Aquatics lapel pin for new members.
 - We have 51 members: 32 Professional, 9 Affiliate, 7 Student, 2 Student Affiliate
- **Sponsorship:** Annual Sponsorships are available: Ocean Level \$2,000 (current: Clean Lakes, year 2) Lake Level \$1,000 (current: SOLitude Lake Management, year 2) Stream Level \$500 (current: Syngenta). Event Sponsorships also available, those sponsors have included: Aquatic Control, Aqua-Weed Control, Brandt, Clean Lakes, Inc., Clean Lakes Midwest, Inc., Crop Production Services (Nutrien Solutions), Cygnet Enterprises, Michigan Aquatic Managers Association, Naturalake Biosciences, SprayCo, Syngenta, The Aquatic Plant Management Society, The Northeast Aquatic Plant Management Society, The Texas Aquatic Plant Management Society, and Vertex Water Features.

*WOA would like to thank the APMS board for the continued participation and support.
Feedback and suggestions are continually encouraged.*

Future Meetings

2020 Annual meeting will be in Maui

- Program planning moving along. Venue likely to be tight.
- Program overview available: <http://wssa.net/wp-content/uploads/2020-Annual-Meeting-Booklet-Final-1.pdf>
- Received 12 proposals for symposia (including my submission for an aquatic one)
 - o Five selected, the aquatic one finished 6th in ranking
 - o Will be one symposia on toxicology (related to glyphosate and other), also Hawaiian invasive plants, intelligent machines, weed genomics, ecology and biodiversity impact of invasive grasses
 - o Student oral contest will be a three minute thesis format rather than 15 minute oral slot

2021 will be in San Antonio, Feb 11-19

2022 being evaluated for Vancouver

- Sheraton Vancouver Wall Center selected. Hotel is giving WSSA \$15,000 and offering excellent deals all the way around (209 CAD room rate, 159 student rooms, comp summer board rooms)
- Feb 21-24 are official dates
- Joint meeting with CWSS

2023 planned to be in Arlington, probably 1/26-2/02; joint meeting with NEWSS

2024 and 2025 will be considered soon;

- FL/GA and then CA area (Anaheim, San Diego, Vegas) sites to be considered
- WSSA trying to avoid northern US sites due to winter weather disruptions with previous meetings

Graduate Student experience had 50 host offers

- \$2,000 travel award per student
- 5 awards each year
- Maybe capping offers per regional society

NIFA Fellow update

- Overall goal is to get more federal funding for weed science
- Tracking RFAs from NIFA to distribute to WSSA members
- Meeting with program leaders to try to get more weed science into RFAs
- Conducting analysis of funding history data
- Proposed weed genomics conference in Kansas City from Pat Tranel
- Move to Kansas City is being very disruptive
 - o Only 20 employees remaining in DC
 - o 2/3 of currently employees say they will not move to KC
 - o No point in visiting DC again before move
 - o Short term this is very bad for interaction
 - o Long term they will need to hire a lot of new people and that creates opportunity to get weed scientists into NIFA and build relationship with new hires

WSSA white paper on glyphosate

- Committee includes Ferrell, Richardson, and about 5 others from WSSA
- Will move ahead with white paper and press release
- Revised documents approved

APEX upgrade for title/abstract submission

- Apex has initiated work on the upgraded system and are on track to be ready for fall submissions
- APMS and CWSS are lowest volume users; CWSS moving to a different platform
- WSSA will pay APEX and then bill regionals
- Regional cost will be a one time charge of \$2000
- (Note that 2020 WSSA submissions went through this platform; it is functioning)

Director of Science Policy Report

- Weed bingo moving along
- Glyphosate registration re-review moving along. Comment period approaching.
- IR-4 moving to NCSU from Rutgers
- Invasive Species Advisory Committee has essentially been disbanded

IMI Update

- Two separate contracts for meeting management and executive secretary have been combined into one
- Will use CrowdCompass app for annual meeting

Finance Committee

- Expect market volatility due to trade issues
- General fund up 3.63% for second quarter but likely lost all of that today
- \$1,200,000 in general account
- \$2.2M total funds
- Finance committee proposing for WSSA to accept proposals for “innovative projects” when WSSA assets exceed \$1.5M

Publications Report

- \$562,304 in journal revenue in 2018 and WSSA gets 38% royalties. WSSA total payment was \$254,330 which includes royalties plus editor stipends, etc.
- Weed Sci impact factor 2.00
- Weed Tech impact factor 1.384
- Invasive Plant Sci Mgt impact factor 0.672; Sarah unsure of reason for decline although all 3 journals dropped because of Allen Press issues in 2015 but other 2 rebounded; Possible that less (applied) invasive plant work is currently being done
- Looking into ways to boost marketing for IPSM
- Herbicide Handbook will move forward with printed copies and print on demand to reduce storage
 - o Travis Gannon will be editor; tasked with putting together working group to be sure there is enough material to warrant a new edition
 - o I’ve already mentioned to Travis that there is no aquatic fate information in the HH for aquatic herbicides
- Still looking for a new Director of Publications. Will be an advertisement.

EPA Liason Report

- Workshop at EPA in April on UAV applications; included aquatic presentation by Richardson
- Large turnover in personnel at EPA
- WSSA sponsored EPA tour this week somewhere
- EPA will be moving across the river into DC; lease expires soon in Crystal City

Graduate Student Report

- Grad students have a social media chair to increase outreach
- Working on programming for 2020 meeting

Student Contest

- Going to 3 minute thesis format for 2020 to reduce program space allotted to students; 69 in oral contest in 2019 and required ~80 volunteers
- No abstracts for these
- May also do a poster, but multiple presentations will be discouraged

North America Weed Science Contest

- 241 students competed; more than previous iterations
- \$55,000 cost to run contest; \$50 per person for food

Executive Session for Review of Employees/Contractors

Code of Conduct

- Board reviewing code of conduct documents for possible adoption

Updated Committee List

- WSSA continues to try to trim committees and get them to be productive

HRAC Herbicide Classification

- HRAC is revising and updating the herbicide classification system. A draft was provided to the board. I did not see endothall or copper in the documents so a message was sent to Global HRAC
- This revised classification will end the WSSA herbicide groupings. At some point (2020?) all herbicides will have the new HRAC code on the product label and that will be the only code.

Appendix, for information of the board.

Travel time and expenses associated with APMS Rep on WSSA Board for formal board meetings only. Time does not include conference calls, emails, etc. at other times of the year.

Meeting	Time	Reimbursed Expenses ³
2016 Annual Board ^{1,2}	6.5 days	\$1741.54
2016 Midyear Board	2.5 days	\$639.16
2017 Annual Board	6.5 days	\$1,257.18
2017 Midyear Board	2 days	\$684.66
2018 Annual Board ²	6.5 days	\$1,129.38
2018 Midyear Board	2 days	\$754.15
2019 Annual Board	6.5 days	\$2,013.66
2019 Midyear Board	2.5 days	\$505.10

¹ Board meetings occur the first 1.5 days and last 0.5 day of the annual meeting.

² I would have attended the annual meeting portion of this even if not serving as WSSA rep, but trip would have been much shorter and expenses greatly reduced.

³ Expenses reimbursed by NCSU per NCSU travel guidelines.

SCIENCE POLICY REPORT – Lee Van Wychen
APMS Mid-Year Meeting- Orlando, FL. Jan. 28, 2020

FY 2020 Federal Budget is Final: On December 20, Congress agreed to a final appropriations package funding all the government for the remainder of FY 2020. The programs highlighted in green below increased over FY 2019 funding levels. The remaining appropriations programs listed below were held at the same level as FY 2019. There were no decreases for the selected accounts below.

Selected Discretionary Appropriations Accounts for the Past Four Fiscal Years

Program	FY 2017	FY 2018	FY 2019	FY 2020
	-----\$ millions \$ -----			
Army Corp of Engineers - Civil				
Aquatic Plant Control Research Program	4	5	5	5
Flowering Rush Control	n/a	1	1	1
Watercraft Inspection Stations	5	5	6	18
Great Lakes Restoration Initiative (EPA)	300	300	300	320
National Sea Grant Program (NOAA)	63	65	68	74
USDA- ARS	1170	1203	1303	1414
USDA- NIFA	1363	1407	1471	1527
Hatch Act (Experiment Stations)	244	244	259	259
Smith-Lever 3(b) & (c) (Extension)	300	300	315	315
AFRI competitive grants	375	400	415	425
IR-4 Minor Crops	12	12	12	12
Crop Protection & Pest Mang't (IPM)	20	20	20	20

The biggest increase, a 3X increase over FY 2019, went to the Watercraft Inspection Stations. In the 2018 Water Resources Development Act (WRDA) that was signed into law last year, several new river basins were approved for inspection stations, in addition to the existing Columbia River Basin. The new ones include: 1) the Upper Missouri River Basin; 2) the Upper Colorado River Basin; and 3) the South Platte and Arizona River Basin. There was language in the 2018 WRDA directing ACOE to conduct a “Harmful Algal Bloom Technology Demonstration,” but, I could not find any additional appropriations in the conference report specifically earmarked for this purpose. However, what it does say about HABs in the FY 2020 Conference report for Energy & Water Appropriations is the following:

“Aquatic Nuisance Research Program.- Concerns persist about the increasing threat to human health and public safety from harmful algal blooms (HABs) on our nation's surface waters. The agreement provides additional funds in Aquatic Nuisance Research Program to address HABs and to develop next generation ecological models to maintain inland and intracoastal waterways, which contribute over \$649,000,000,000 annually to the U.S. economy. The agreement also provides additional funds to support research and development that will identify the formation of HABs and develop improved strategies for early detection, prevention, and management techniques and procedures to reduce the occurrence and impacts of HABs in the nation's water resources. The Corps is urged to work collaboratively with appropriate university partners to address these issues. The Corps is encouraged to explore opportunities to address HABs in the Great Lakes given the historic lake levels in the region.

June 8 Capitol Hill Seminar on HABs and Aquatic Plant Research. I’m working with Mark Heilman, Rob Richardson, Ken Wagner and Jeremy Crossland to present a couple of seminars to Capitol Hill and Agency staffers, one in the Senate and one in the House, on important aquatic plant and HAB research. Monday, June 8 is the tentative date, which is part of the 2nd annual PlayCleanGo Awareness week. We will also likely have several other meetings in DC while they are there with key ACOE Leadership to discuss research funding.

USDA-NIFA Move: NIFA is hiring a lot people of all types of backgrounds since many staff did not move to Kansas City. While this will slow down grant processing and panel reviews in the short term, this is a GREAT opportunity for students and faculty for an excellent federal job. The new National Science Liaison (NSL) that covers weed science issues for NIFA will be Mathieu (Mat) Ngouajio, who has Michigan State ties. He will be one of 6 NSL's that remain in DC to liaise with other federal stakeholders.

USDA-ARS: Still no word on who will be the new National Program Leader (NPL) overseeing weed science and invasive plant issues. Rumor has it that ARS will post a position description fairly soon. Weed science was well represented in April 2019 during the USDA-ARS Crop Protection and Quarantine Program (NP 304) five year review.

WSSA Rep for TAG-BCAW: Dr. Te-ming Paul Tseng, a weed physiologist at Mississippi State University, has been representing WSSA on the APHIS Technical Advisory Group for the Biocontrol of Weeds.

2020 International Year of Plant Health- USDA APHIS will host a 1000+ person conference in DC on Aug. 18-20, 2020 to focus attention on plant health issues. I'm on the academia steering committee and am pushing them to include invasive species and phytosanitary trade issues related to herbicide-resistant weed seed.

Weed Science Policy Fellow- 2019 was the first year I selected and worked with two Weed Science Policy Fellows. They were John Schramski, a master's student from Michigan State and Haleigh Summers, a master's student at Penn State. They have completed most of their fellowship assignments and travel to DC and will report to the WSSA Board of Directors at the annual meeting in Maui. I advertised for another Science Policy Fellow(s) in 2020. **Applications are due Feb. 1, 2020.** Talk to me if you know of someone who is interested.

WEED BINGO: an educational game that blends a bit of science with interesting and unusual facts about some of North America's most common and troublesome weeds. Each of the 42 weed cards (7 are aquatic weeds) includes the common and scientific name of a weed, a photo and a brief description. My kids love it. ☺ We've sold about 200 of the 1,000 games in the first production run already. You can buy it for \$14.95 + \$5 S&H at: https://wssa.memberclicks.net/index.php?option=com_mcform&view=ngforms&id=24090#/

National Invasive Species Awareness Week (NISAW): <https://www.nisaw.org/nisaw-2020/>
We have gone through a major overhaul and rethinking of strategy and purpose over the past year. NAISMA has agreed to take over the coordination and planning role, which is being led by their executive director, Belle Bergner. There will be a NISAW Part I – Legislative Advocacy week, with no Feds involved during **Feb. 24-28, 2020**. We will likely lobby on restoring the NISC budget. The traditional NISAW will be **May 16 – 23, 2020** and will focus on “in the field” events at the state and local levels. **I will present a separate request to the APMS board for NISAW sponsorship at \$2,500 for 2020.**

“Executive Visits Day” in DC for Weed Society Presidents: This was a success in April 2019 and I plan to do it again in 2020 for the Presidents/leaders of the six national and regional weed science societies. Tentative dates are May 18-22, 2020, which would correspond with NISAW.

National Survey of Common and Troublesome Weeds: The 2019 survey results for weeds in broadleaf crops, fruits & vegetables will be posted at <http://wssa.net/wssa/weed/surveys/> by next week. The **2020 weed survey** will focus on weeds in grass crops, pastures, and turf and be sent out to society members by Memorial Day and will conclude by Labor Day.

Membership Brochure- Would APMS be interested in working with WSSA and the other regional weed science societies in developing some membership marketing material? **Could the APMS Board appoint or recommend a member** who'd be willing to serve on a temporary ad-hoc committee that will be charged with this task and co-chaired by myself and Eric Gustafson, WSSA's Executive Secretary.