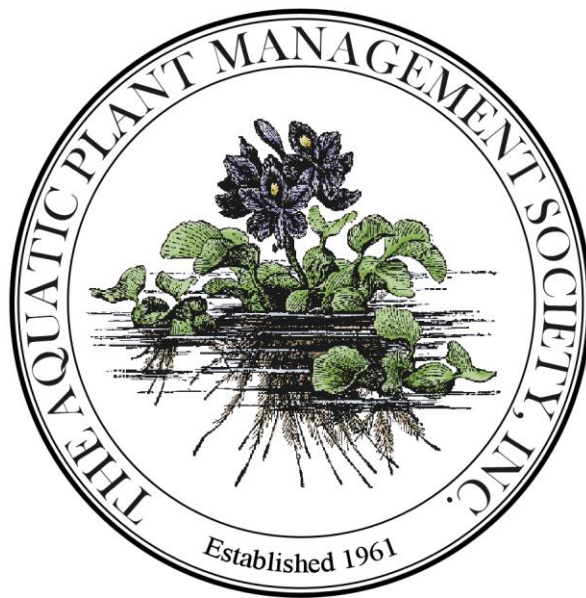


# **The Aquatic Plant Management Society**



**Board Meeting  
Ritz-Carlton Hotel  
New Orleans, LA  
January 16, 2018**

## **AGENDA**

**Aquatic Plant Management Society, Inc.  
Board of Directors Meeting  
Ritz-Carlton Hotel  
New Orleans, LA  
January 16, 2018**

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

8:00 a.m.      Call to Order  
10:00 a.m.      Morning Break  
12:00 p.m.      Lunch - Board Room  
12:45 p.m.      Reconvene Board Meeting  
2:45 p.m.      Afternoon Break  
4:00 p.m.      Adjourn

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

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

**MINUTES** - Approval of Minutes from the July 16 and 19, 2017 Board of Directors Meetings and the July 17, 2017 Annual Business Meeting held at the Hilton Daytona Beach Resort, Daytona Beach, Florida

**REPORT OF THE PRESIDENT** - John Rodgers

**REPORT OF THE TREASURER** - Jeremy Slade

**REPORT OF THE SECRETARY** - Jeff Schardt

**REPORT OF THE EDITOR** - Jay Ferrell

*Approval of Officer Reports*

### **COMMITTEE REPORTS**

Awards - Jay Ferrell  
Bylaws and Resolutions - Vernon Vandiver  
Education and Outreach - Jeff Schardt  
Update on 2017 TVA Plant Camp – Brett Hartis  
Exhibits - Dean Jones  
Finance - John Gardner  
Legislative - Rob Richardson

Meeting Planning - Tommy Bowen  
    Presentation on Buffalo Hyatt Regency Meeting Site  
Membership - Mark Heilman  
Nominating - John Madsen  
Past President's Advisory - John Madsen  
Program - Craig Aguillard  
Proposal Review - John Madsen  
    Plant Camp 2018 sponsorship request  
    BASS Conservation Project grant request  
Publications - Jay Ferrell  
Regional Chapters - Mark Heilman  
Scholastic Endowment - Tom Warmuth  
Strategic Planning - Mark Heilman  
Student Affairs - Chris Mudge  
    Progress presentation on 2016 LSU / GSRG - Bradley Sartain  
Web Site - Karen Brown

## **SPECIAL REPRESENTATIVE REPORTS**

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

### ***Approval of Committee and Special Representative Reports***

## **OLD BUSINESS**

- 1) Discuss Bylaws revision to bundle annual meeting registration and membership dues
- 2) Discuss Bylaws requirement for Membership to approve Board-recommended Individual Membership dues increase from \$75-\$95
- 3) Discuss moving the Awards Banquet to Wednesday evening
- 4) Discuss status of Guest Tour at the 2018 Annual Meeting

## **NEW BUSINESS**

- 1) Discuss amount of 2017 annual meeting income (if any) to put into Scholastic Endowment Account
- 2) Discussion on how to address APMS "Contact Us" requests for APC advice
- 3) Discuss 2019 GSRG (Announce in 2018 / fund January 2019 - December 2020)  
    Announce Jan; close applns. Apr; evaluate Jun; present at Annual Meeting Jul?

**4:00 p.m. ADJOURN** - President John Rodgers

**Board Book Table of Contents**

**January 16, 2018**

**New Orleans, LA**

**Agenda, Table of Contents**

<b>Meeting Minutes .....</b>	<b>1</b>
<b>Report of the President.....</b>	<b>20</b>
<b>Report of the Treasurer.....</b>	<b>22</b>
<b>Report of the Secretary.....</b>	<b>36</b>
<b>Report of the Editor.....</b>	<b>39</b>
<b>Awards Committee.....</b>	<b>40</b>
<b>Bylaws and Resolutions Committee...</b>	<b>42</b>
<b>Education and Outreach Committee...</b>	<b>43</b>
<b>Exhibits Committee.....</b>	<b>47</b>
<b>Finance Committee.....</b>	<b>48</b>
<b>Legislative Committee.....</b>	<b>49</b>
<b>Meeting Planning Committee.....</b>	<b>50</b>
<b>Membership Committee / LinkedIn.....</b>	<b>/53</b>
<b>Nominating Committee.....</b>	<b>54</b>
<b>Past Presidents' Advisory Committee.</b>	
<b>Program Committee.....</b>	<b>58</b>
<b>Proposal Review Committee.....</b>	<b>59</b>
<b>Publications Committee.....</b>	<b>61</b>
<b>Regional Chapters Committee.....</b>	<b>63</b>
<b>Scholastic Endowment Committee.....</b>	
<b>Strategic Planning Committee.....</b>	<b>64</b>
<b>Student Affairs Committee.....</b>	<b>73</b>
<b>Website Committee.....</b>	<b>76</b>
<b>AERF.....</b>	
<b>BASS.....</b>	<b>77</b>
<b>CAST.....</b>	<b>93</b>
<b>NALMS.....</b>	<b>94</b>
<b>RISE.....</b>	<b>95</b>
<b>Women of Aquatics.....</b>	<b>97</b>
<b>WSSA / Science Policy.....</b>	<b>98/99</b>
<b>Old Business.....</b>	
<b>New Business.....</b>	<b>107</b>



# **THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED**

## **Minutes of the Board of Directors Meeting**

**July 16, 2017**

**Hilton Daytona Beach Resort**

**Daytona Beach, Florida**

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Sunday, July 16, 2017 at the Hilton Daytona Beach Resort in Daytona Beach, Florida. President John Madsen called the meeting to order at 8:00 a.m.

Officers and Directors present at roll call were:

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

There were no Proxies.

Others in attendance during portions of the meeting:

Tommy Bowen, Meeting Planning Committee Chair  
Don Doggett, Previous APMS President - 2007  
John Gardner, Finance Committee Chair  
Dean Jones, Exhibits Committee Chair  
Mark Heilman, Strategic Planning Committee Chair  
Carlton Layne, AERF, Previous APMS President - 2009  
Ken Manuel, Duke Energy, Previous APMS President - 2004  
Bill Torres, Meeting Manager  
Vernon Vandiver, Bylaws Committee Chair  
Joe Vassios, CAST Representative  
Lee VanWyche, WSSA, Science Policy Director

## **MINUTES**

After Roll Call, President Madsen asked for approval of the Minutes from the January 25, 2017 Midyear Board Meeting held in Daytona Beach, Florida.

*John Rodgers motioned the Board to approve the Minutes as submitted. Craig Aguillard seconded the motion. The motion passed without dissenting vote.*

## **PRESIDENT'S REPORT**

President Madsen informed the Board that he has continued to communicate with the WSSA Scientific Policy Committee on herbicide resistance and biotechnology issues. Madsen provided a letter of support for the nomination of Carlton Layne to the US EPA Pesticide Program Dialogue Committee, at the request of AERF President Tyler Koschnick.

## **TREASURER'S REPORT**

Treasurer Jeremy Slade provided the following information on the various APMS financial accounts. The General Investment Account includes funds set aside for a two-year emergency reserve to cover Society financial commitments in the case that anticipated incomes do not materialize for those two years (e.g. the Annual Meeting is postponed). Slade has contacted the State Bank to seek guidance in placing some of the reserve funds into alternating CDs. The APMS Graduate Student Research Grant (GSRG) is paid from the Scholastic Endowment Checking Account. Slade reminded the Board that the three largest expenses for APMS are the Annual Meeting, the Journal, and the Graduate Student Research Grant.

### **General and Scholastic Accounts**

#### **General Accounts**

Checking (general operating)	\$114,478.45 (6/30/17)
Investment (incl. emergency fund)	\$226,044.17 (\$120,000 emergency fund)
Total General Accounts	\$340,522.62

#### **Scholastic Accounts**

Checking (discretionary)	\$ 16,546.08 (6/30/17)
Investment (disc. subaccount)	\$124,316.20
Total Scholastic Accounts	\$140,862.28

**Total General and Scholastic Accounts      \$481,384.90 (\$120,000 in emergency fund)**

## **SECRETARY'S REPORT**

Secretary Jeff Schardt discussed Secretarial activities since the Midyear Board meeting with the bulk of time directed to the Program, Newsletter, Board Book and Minutes. Schardt advised that APMS total membership is fluid, ranging around 290-300 with members joining or not renewing throughout the year. Membership is higher after joint Annual Meetings with regional chapters. Many chapter members pay APMS dues at the Annual Meeting but do not renew the next year when the meeting moves to a different region.

## EDITOR'S REPORT

Editor Jay Ferrell reported that the July 2017 issue of the Journal of Aquatic Plant Management (JAPM) was ready to be mailed. There are 14 manuscripts (eight papers and six notes). The current article acceptance rate is about 60%. Average turn-around time is around 60-80 days after the initial submission. Much of the delay is finding appropriate reviewers. This time frame continues to improve as more associate editors are located. The number of article submissions had been around 50/year for several years but reduced by nearly half in 2015 for an unexplained reason. That number began to recover in 2016, with 38 submissions.

The JAPM open access policy started in 2016. Authors can pay \$500 to get authorization to present data published in the JAPM elsewhere rather than wait two years if the fee is not paid. For the first Journal, about 2/3 of the authors paid the \$500 open access fee. Three authors paid the fee for the July 2017 issue.

Ferrell reported on his continuing assessment of journal publishers. Allen Press may not be the best publisher available, but they are convenient. WSSA has switched to Cambridge for their journal publishing. Cambridge approached WSSA to increase their weed science representation, so Cambridge currently has a full portfolio for the weed science category and was not interested at this time to work with APMS. Ferrell is also working with Taylor and Francis for publishing. APMS still has about another year with the Allen Press contract.

*John Rodgers motioned the Board to accept the Officer Reports. Todd Olson seconded the motion. The motion passed without dissenting vote.*

## COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

**Awards:** There was no discussion about the report filed by Chair Mike Netherland. Jay Ferrell has agreed to replace Mike Netherland as Awards Committee Chair for 2017-2018.

**Bylaws and Resolutions Committee:** No Report.

**Education and Outreach Committee:** Chair Jeff Schardt reported that most of the work done by the Committee during the past six months was to update / upgrade the APMS web site.

**Exhibits Committee:** Chair Dean Jones reported there will be 29 exhibitors at the Annual Meeting – two are non-profit. There was a \$100 increase in the exhibit fee for 2017 - \$16,800 was generated at the Annual Meeting. There are 18 sponsors for the 2017 Annual Meeting – two platinum, three gold, two silver, three bronze, and eight contributors. Sponsorship generated \$67,420 for the meeting.

**Finance Committee:** Chair John Gardner related the Committee's recommendations for growing scholastic endowment funds as assigned by the Board at the Midyear BOD meeting. Considerations were provided and discussed in Gardner's written report. After considerable discussion, the Board voted on several motions related to growing Scholastic Endowment funds.

*John Gardner motioned the Board to amend the APMS Bylaws to restrict use of Scholastic Endowment funds to the Graduate Student Research Grant (GSRG) only, and task the Bylaws Committee to create language to implement this change. Samantha Sardes seconded the motion. The motion passed without dissenting vote.*

*Jeremy Slade motioned the Board to advertise the GSRG, co-sponsored with the Regional Chapters, in 2018 to be awarded in July 2018 with the first payment in January 2019. Jeff Schardt seconded the motion. The motion passed without dissenting vote.*

*Jeremy Slade motioned the Board to deposit half of the funds generated from Sustaining Membership annual dues to the Scholastic Endowment Account. Jeff Schardt seconded the motion. The motion passed without dissenting vote.*

*Jeremy Slade motioned the Board to increase Individual Membership dues from \$75 to \$95 with 20% of all Individual Membership dues to be deposited into the Scholastic Endowment Account. Ryan Thum seconded the motion. The motion passed with one dissenting vote.*

*Jeremy Slade motioned the Board that the Proposal Review Committee review all externally submitted funding requests/proposals regardless of funding amount. Ryan Thum seconded the motion. The motion passed without dissenting vote.*

As a point of order, the Board agreed after discussion that an external request is intended to mean a request not submitted by an APMS Standing Committee. Therefore, a funding request submitted by an APMS special representative would be considered an external request and require review by the Proposal Review Committee.

*Rob Richardson motioned the Board that APMS moves toward including APMS membership dues within conference registration fees. This will include bringing a Bylaws change before APMS membership in 2018 for the bundling to take place at the 2019 APMS Annual Meeting. Ryan Wersal seconded the motion. The motion passed without dissenting vote.*

**Legislative Committee:** Chair Rob Richardson referred the Board to Lee VanWyche's Science Policy Report since that contained similar information. Richardson highlighted a petition from the Center of Invasive Species Prevention (CISP) to USFWS to add various species to the injurious invasive species list, including grass carp as Injurious Wildlife under the Lacey Act, thus blocking interstate transport. The basis of the petition was USFWS internal risk assessments that have never been publicly released. The Department of Interior is now collaborating with the National Aquaculture Association (NAA) on various aspects related to the Lacey Act and invasive species and the petition seems dead.

While NAA effectively campaigned against the petition, the U.S. Association of Reptile Keepers prevailed in a legal challenge against USFWS regarding interpretation of the Lacey Act. Since the 1970's, USFWS interpreted the Lacey Act to mean that USFWS had the authority to block

interstate transport of Injurious Wildlife between the 49 continental states. The U.S. Appeals Court ruling set the interpretation back to pre-1970's interpretation that USFWS could only regulate transport between the continental states and Hawaii, Puerto Rico, or other territories.

Related to this is the introduction of the Aquaculture Risk Reduction Act that will "protect fish farmers from unreasonable fines and criminal prosecution after they commit minor or accidental Lacey Act infractions." So, a quick summary is that CISP lost more than they hoped to gain by introducing the petition.

**Meeting Planning Committee:** Chair Tommy Bowen advised that the room block for the Daytona Beach meeting was originally set in 2014 for 355 room nights. As of July 16, the revised block was full at 650, making the 2017 Annual Meeting the best attended in recent memory. Pre-registration was at 200 on July 16. Bowen thanked Bill Torres, Dean Jones, and Bill Torres for creating Sponsor signage for the meeting. Bowen also reflected that APMS saved about \$350 in the reduced number of Sponsor signs under the new event sponsorship format.

A guest tour to St. Augustine is scheduled for Monday morning. There is room for 24 participants.

**Membership Committee:** No report. President Madsen reviewed LinkedIn participation. There are now about 1,200 in the Aquatics Group. Job announcements can be posted on LinkedIn. Companies can advertise under a Promotions tab.

**Nominating Committee:** No report. The slate was approved by the Board prior to the Board Meeting and is included in the 2017 Midyear BOD meeting Minutes.

**Past President's Advisory Committee:** Chair Rob Richardson reported that there were several Past Presidents at the January 2017 Strategic Planning session. Richardson emailed all Past Presidents for whom he could find an address, inviting them to the Past President's luncheon. He anticipated as many as 15 may attend.

**Program Committee:** Chair John Rodgers thanked all who participated in assembling the Program as well as activities through the week.

**Proposal Review Committee:** Chair Rob Richardson advised that no proposals were submitted to the Committee.

**Publications Committee:** Chair Jay Ferrell has organized authors to draft 15 chapters into a publication entitled "Research Methods in Aquatic Plant Management". The intent is to provide experiences in setting up research projects vs. a literature review or methodology. These articles will be published in a companion edition that will be mailed with the January 2018 JAPM. Copies will be taken to the February 2018 New Zealand conference for distribution. Each APMS member will receive a copy. No decisions have been made on availability for non-members. Ferrell expects the cost to be about \$20,000-\$30,000 to produce and distribute the publication. Ferrell suggests partnering with AERF and Regional Chapters to share costs.

**Regional Chapters Committee:** Chair Craig Aguillard contacted each Chapter President and should have representation from each at the Regional Chapter President's Luncheon.

**Scholastic Endowment Committee:** No report. There will be a corn hole competition with cups given to participants to increase participation. There will also be a basket raffle and duck race to raise funds.

**Strategic Planning Committee:** Chair Mark Heilman discussed that the draft 2017-2021 APMS Strategic Plan that was approved by the Board was published in the March 2017 Newsletter with a request for feedback from membership. Heilman reported that no comments were received. Therefore, the Board agreed that the draft plan will be accepted as the APMS 2017-2021 Strategic Plan for Society guidance for the next five years. A Leader still needs to be appointed for Goal #2 that addresses an APMS Marketing Plan. The Strategic Planning Committee will meet prior to the 2018 Midyear Board meeting to assess progress on implementing goals within the plan.

**Student Affairs Committee:** Chair Chris Mudge provided a written report. There are 18 students from six universities competing in the presentation competitions (10 oral – 9 poster). Seven students have not previously presented at APMS.

Jeff Schardt provided a few logistics about the post conference student tour. APMS rented a van and will provide box breakfast, as well as lunch and dinner for the nine students participating in the tour. The Florida Fish and Wildlife Conservation Commission will provide an airboat and Ed Harris (FWC Regional Biologist) will lead discussions on Lake Toho with Dean Jones (UF and APMS Exhibits Committee Chair).

**Website Committee:** Chair Karen Brown provided a written report.

***Rob Richardson motioned the Board to approve the Committee Reports. Brett Hartis seconded the motion. The motion passed without dissenting vote.***

**AERF:** Carlton Layne reported that AERF will continue its research initiatives. AERF sponsors two classes of research: restricted or proprietary research that is determined by the Gold Sponsors of Board, and generic research that is requested or proposed by outside research entities. AERF is considering expanding generic research, especially in the realm of invasive/endangered species interfaces. AERF is also considering publishing reports on successful invasive plant management efforts.

**BASS:** Joe Vassios delivered Representative Gerald Adrian's reported. For 2017, the New Mexico BASS Nation has been awarded the Aquatic Plant Management Conservation grant for \$2000. Their project involves establishing shoreline vegetation on Elephant Butte Reservoir. The grant is only a portion of the funds being raised by the New Mexico Bass Nation and the project has already been initiated. (APMS and AERF had jointly pledged \$3,000, but the request is for \$2,000). There was discussion the APMS provide \$1,500 toward the BASS conservation initiative in 2018. President Madsen reminded that this request will now need to be vetted by the Proposal Review Committee.

**CAST:** Representative Joe Vassios updated the proposal on harmful algae blooms. Earlier this year Ryan Wersal and Vassios submitted a proposal for a CAST Commentary titled “The Effects of Harmful Algal Blooms on Our Freshwater Water Resources: Causes and Mitigation”. In June the proposal was reviewed by the CAST Board of Trustees and Board of Directors, and returned with suggestions for updating the proposal. Wersal and Vassios will meet during the APMS conference to address the minor issues the BOD and BOT have, and resubmit it for their approval in July 2017. The timeframe for this Commentary may be 2018-2019, with an estimated cost ~\$25,000.

**NALMS:** No report.

**RISE:** There was no discussion in addition to Representative Sam Barrick’s written report.

**Women of Aquatics:** Discussion was deferred until the post-conference Board meeting.

**WSSA:** Representative Rob Richardson started discussion with general information from WSSA. Regular membership has declined over the past few years. This may reverse as WSSA has decided to include an annual membership with conference registration.

Science Policy Director Lee Van Wychen recommended APMS work to replace Kurt Getsinger when he retires to liaison with EPA regarding aquatic herbicide registrations. Aquatic herbicide use patterns can be much different than terrestrial compounds with which EPA registration personnel may be more familiar. Regulations placed on terrestrial herbicide labels may unnecessarily hinder aquatic herbicide use and performance.

Van Wychen’s report can be viewed in the June 2017 Newsletter. Highlights include the following. In the Administration’s FY 2018 proposal, the U.S. Army Corp of Engineers (USACE) once again did not request funding for the Aquatic Plant Control Research Program. However; APCRP received \$4 million in 2016, and this level of funding will likely be restored as the budget is completed.

On Feb. 28, 2017, President Trump issued an Executive Order that directs the heads of the USACE and EPA to “review and reconsider” the existing Waters of the United States (WOTUS) rule that took effect Aug. 28, 2015. That rule was an unprecedented expansion of Clean Water Act jurisdiction beyond “navigable waters” and included waters with a “significant nexus” to navigable waters such as intermittent and ephemeral streams that farmers use for drainage and irrigation. A new draft rule may be ready for comment in spring of 2018.

New “NPDES fix” legislation has been re-introduced in both the House and Senate in the 115th Congress. The Reducing Regulatory Burdens Act of 2017 (HR 953) was introduced on Feb. 7, 2017 by Rep. Bob Gibbs (R-OH). The House passed H.R. 953 by a vote of 256 to 165 on May 24. This is the fourth time this legislation has been up for a vote in the past 7 years, each time passing the House, but ending up stalled in the Senate. The National and Regional Weed Science Societies (APMS, NCWSS, NEWSS, SWSS, WSSA, WSWS) have supported the NPDES-fix legislation from the start and endorsed a letter to Congress urging passage of H.R. 953, along with more than 100 other organizations on May 23.

Discussion concluded on invasive plant management / endangered species issues in relation to EPA and herbicide use. A basic difference between the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Endangered Species Act (ESA) is FIFRA is risk / benefit oriented while ESA is risk based only. Therefore, EPA must look at (for example) the benefit of an aquatic use herbicide as well as any risk while ESA only views from a risk perspective. There was also discussion that EPA is hierarchical or top down – headquarters makes rules or decisions and passes down policy. USFWS is regional and opinions or approaches may vary among regions.

***Todd Olson motioned the Board to approve the Special Representative Reports.  
Samantha Sardes seconded the motion. The motion passed without dissenting vote.***

### **Old Business:**

#### **1. Contract with Florida Event Planning and Meeting Services**

Tommy Bowen led discussion reminding the Board that Bill Torres' contract expires at the end of 2017. The proposed contract for renewal is identical to the 2014 version previously approved by the Board except for the inclusion of liability insurance to cover the APMS meeting requested by the Board. The insurance would cover instances that may not be covered by the hotel or by APMS liability insurance. There was discussion that clarified that Torres has 12-month liability insurance – APMS will pay the equivalent of four months of the insurance for the months associated with the APMS annual meeting. Torres is also asking for a five-year vs. a three-year term of the previous contract. Discussion concluded with the various savings that Florida Event Planning brings to the Society including low negotiated room rates, meal allowances, and event rooms.

***Tommy Bowen motioned the Board to approve a new five-year contract as presented in the Board Book between APMS and Florida Event Planning and Meeting Service. Craig Aguillard seconded the motion. The motion passed without dissenting vote.***

#### **2. Starry Stonewort Research Grant**

President Madsen reviewed the process for the GSRG for 2017 since it was different from the standard biannual GSRG.

The 2017 APMS GSRG was on a specific topic – starry stonewort. This GSRG was supported jointly by APMS, Midwest APMS, Northeast APMS, Applied Biochemists (a Lonza Company), SePRO, and UPI; each at the \$5,000 per year level for two years. The RFP closed on April 30, 2017, and the grant will run from January 2018 through December 2019.

The review committee was composed of John Madsen (chair, APMS), Dick Pinagel (MAPMS), Chris Doyle (NEAPMS), Bill Ratajczyk (Applied Biochemists), Tyler Koschnick (SePRO), and Cody Gray (UPI).

Each organization picked two judges, for a total of twelve judges, not including John Madsen as chair. Judges were selected from APMS. The judges were Steve Enloe (APMS), Brett Hartis (APMS), Paul Hausler (MAPMS), Ryan Thum (MAPMS), Ann Bove (NEAPMS), Bin Zhu



(NEAPMS), Bill Rataczyk (Applied Biochemists), Ryan Wersal (Applied Biochemists), West Bishop (SePRO), Mark Heilman (SePRO), Cody Gray (UPI), and Joe Vassios (UPI).

There were two proposals submitted for this RFP:

a. *Characterizing starry stonewort phenology, growth conditions, and impacts to guide management*: Submitted by Daniel Larkin, Minnesota Aquatic Invasive Species Research Center, University of Minnesota.

b. *Evaluation of management options for Nitellopsis obtusa (Desvaux in Loiseleur) J. Groves, (1919) (Starry Stonewort) in the United States*. Submitted by John H. Rodgers, Jr., Department of Forest and Environmental Conservation, Clemson University.

In the past, a vote on simple preferences was adequate to find the winning entry. The first vote was 6 to 6. Madsen then asked reviewer committee members to a) approve his participation in voting on a point system, and b) ask committee members to submit a full review with points. By having 13 reviews based on points allotted rather than just a ranking, a preference was selected.

The successful candidate proposal was from Clemson University. The Starry Stonewort GSRG RFP selection will be announced at the Awards Banquet on Tuesday night.

**New Business:** There was no new business.

***Jeff Schardt motioned the Board to adjourn to meeting. Ryan Thum seconded the motion. The motion passed without dissenting vote.***

The Board meeting adjourned at 2:07 p.m.

# THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

## Minutes of the Annual Business Meeting

July 17, 2017

Hilton Daytona Beach Resort

Daytona Beach, Florida

The Annual Business Meeting of the Aquatic Plant Management Society, Inc. was held on Monday, July 17, 2017. President John Madsen called the meeting to order at 4:05 p.m.

### MINUTES

The Minutes of the 2016 Annual Business Meeting held in Grand Rapids, Michigan on July 18, 2016, as well as Minutes from the previous ten years were available online during the conference for review and consideration by the general membership. There was no discussion regarding these Minutes. President Madsen called for a motion to approve the Minutes.

*Todd Olson motioned to approve the 2016 Annual Business Meeting Minutes. Dick Pinagel seconded the motion. There were no dissenting votes.*

### PRESIDENT'S REPORT

President Madsen welcomed delegates to the 57<sup>th</sup> Annual Meeting of the Aquatic Plant Management Society. Madsen provided comments on recent activities of the Society during his Presidential Address at the beginning of the Program and had no additional comment.

### TREASURER'S REPORT

Treasurer Jeremy Slade summarized the account balances; provided in the table below. Slade advised that these figures are as of June 30, 2017 and do not include payments for the 2017 Annual Meeting Hotel balance or income from the Annual Meeting. Slade also informed the Membership that the books are available for inspection at the Registration Desk throughout the meeting.

#### General and Scholastic Accounts

##### General Accounts

Checking (general operating)	\$114,478.45 (6/30/17)
Investment (incl. emergency fund)	\$226,044.17 (\$120,000 emergency fund)
Total General Accounts	\$340,522.62

##### Scholastic Accounts

Checking (discretionary)	\$ 16,546.08 (6/30/17)
Investment (disc. subaccount)	\$124,316.20
Total Scholastic Accounts	\$140,862.28

**Total General and Scholastic Accounts      \$481,384.90 (incl. \$120,000 in emergency fund)**

## SECRETARY'S REPORT

The Secretary also keeps track of membership after dues are paid. Annual Membership is fluid, but has declined slightly from about 300 during the past few years to about 290 as of the 2017 Annual Meeting. Schardt solicited articles and current event topics from the membership for the Newsletter.

## EDITOR'S REPORT

Editor Jason Ferrell advised the Membership that Journal of Aquatic Plant Management (JAPM) remains on time with the July 2017 issue already shipped. Ferrell informed the membership of a current APMS project entitled *Research Methods in Aquatic Plant Management*. The publication consists of 15 chapters describing practical experiences on how aquatic plant management research is set up and done. The publication will be available to publish in October 2017 and sent to APMS members with the January 2018 Issue of the Journal of Aquatic Plant Management. A PDF version will be available to APMS members under the Members Only tab on the APMS website. There is no charge to APMS members, but the publication will be for sale to non-members.

*Linda Nelson motioned to accept the Officer Reports. Samantha Sardes seconded the motion. The motion was approved without dissenting vote.*

## COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

**Awards:** No report.

**Bylaws and Resolutions Committee:** No proposed changes.

**Education and Outreach Committee:** Chair Jeff Schardt addressed updates on the website and that there is an informative White Paper now posted on the website that describes the logistics behind selecting annual meeting sites and considerations that go into planning local arrangements and meeting events. APMS paid for the development of a National Silent Invaders video that is the cornerstone for teachers to develop invasive aquatic plant management instructional programs.

Schardt advised that APMS was again a sponsor of Florida Plant Camp in 2017. In the previous three years APMS sponsored two instructors from the Carolinas, Guntersville AL, and TVA lakes area. Although no non-Florida teachers participated in 2017, Schardt advised that Plant Camp is still open to out-of-state instructors where there is APMS Chapter support to develop a regional Plant Camp or similar program. The TVA Plant Camp has ~80 instructors signed up for their September 2017 Program.

**Exhibits Committee:** Chair Dean Jones thanked the APMS Exhibitors and Sponsors. There were 27 paid and three not-for-profit Exhibitors at the meeting. Jones informed there were 18 Sponsors.

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

**Legislative Committee:** Chair Rob Richardson advised that all items were covered in the morning Program Session.

**Meeting Planning Committee:** Chair Tommy Bowen asked for comments to improve future meetings. He advised that the 2018 Annual Meeting will be in Buffalo, 2019 in San Diego, and 2020 in San Antonio. He asked for site suggestions for the 2021 Annual Meeting scheduled for the MidSouth Region.

**Membership Committee:** No report.

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

Vice President	Mark Heilman - SePRO Corporation
Treasurer	Jeremy Slade - UPI
Director	Deborah Hofstra - NIWA
Director	Amy Kay - Clean Lakes Midwest

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

*Larry McCord motioned to close nominations from the floor. Dick Pinagel seconded the motion. The motion passed without dissenting vote.*

*Tommy Bowen motioned to accept the Slate of Delegates as recommended by the Nominating Committee. Larry McCord seconded the motion. The motion passed without dissenting vote.*

**Past President's Advisory Committee:** Chair Rob Richardson reported that several Past Presidents attended APMS Strategic Planning in January and 16 Past Presidents are attending the 2017 Annual Meeting. Madsen will attend the Past President's Luncheon on Tuesday and report back to the Board during the Post-conference BOD meeting.

**Program Committee:** No report.

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

**Regional Chapters Committee:** No report.

**Scholastic Endowment Committee:** Chair Tom Warmuth reported that there were 22 donations to the raffles and silent auctions.

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

**Student Affairs Committee:** Chair Chris Mudge reported that there are 18 students presenting at the Annual Meeting, representing six universities.

**Website Committee:** No report.

**AERF:** No report.

**BASS:** No report.

**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.

**WSSA:** No report. Information was presented during the morning Program session.

*Dick Pinagel motioned to accept the Committee and Special Representative Reports.  
Samantha Sardes seconded the motion. The motion passed without dissenting vote.*

**Old Business:** None.

**New Business:** None.

*Mark Heilman motioned to adjourn the Annual Business Meeting. Craig Aguillard seconded the motion. The motion passed without dissenting vote.*

The meeting adjourned at 4:35 p.m.

# **THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED**

## **Minutes of the Board of Directors Meeting**

**July 19, 2017**

**Hilton Daytona Beach Resort**

**Daytona Beach, Florida**

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Wednesday, July 19, 2017 at the Hilton Daytona Beach Resort in Daytona Beach, Florida. President John Rodgers called the meeting to order at 4:07 p.m.

Officers and Directors present at roll call were:

John Rodgers, President  
Craig Aguillard, President Elect  
Mark Heilman, Vice President  
John Madsen, Immediate Past President  
Jeremy Slade, Treasurer  
Jeffrey Schardt, Secretary  
Brett Hartis, Director  
Ryan Thum, Director  
Scott Nissen, Director  
Todd Olson, Director  
Deborah Hofstra, Director  
Amy Kay, Director  
Andrew Howell, Student Director

There were no Proxies.

Others in attendance during portions of the meeting:

Tommy Bowen, Meeting Planning Committee Chair  
Ken Manuel, Duke Energy, Previous APMS President - 2004  
Rob Richardson, Previous APMS President, 2016  
Vernon Vandiver, Bylaws Committee Chair

## **PRESIDENT'S REPORT**

No report.

## **TREASURER'S REPORT**

Treasurer Jeremy Slade estimated that the Annual Meeting generated about \$128,328, with approximately \$80,000 in expenses. This results in a net positive income of about \$48,000. Slade added that the duck race generated \$2,250 while the combined silent auction, bag toss, and raffle brought in \$4,109 for a collective fund-raising total of \$6,359 for the Scholastic Fund.

Slade acknowledged the pre-conference preparation and on-site work that Sherry Whitaker provided for Annual Meeting Registration and offered the following motion:

*Jeremy Slade motioned the Board to provide funds for Sherry Whitaker to travel to Buffalo, NY to organize and work the registration desk at the 2018 Annual Meeting. Brett Hartis seconded the motion. The motion passed without dissenting vote.*

## **SECRETARY'S REPORT**

No report.

## **EDITOR'S REPORT**

No report.

*Todd Olson 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:** No report.

**Bylaws and Resolutions Committee:** Committee Chair Vernon Vandiver reported that the Committee developed language to address changes to the Scholastic Endowment language in the Bylaws, Article XVI.

*Vernon Vandiver motioned the Board to replace existing language in Article XVI of the APMS Bylaws with the following language. Mark Heilman seconded the motion. The motion passed without dissenting vote.*

### **ARTICLE XVI. SCHOLASTIC ENDOWMENT**

#### **Section A:**

*The Aquatic Plant Management Society's Scholastic Endowment shall be maintained and grown to ensure a sustaining Graduate Student Research Grant program.*

#### **Section B:**

*The Aquatic Plant Management Society's Scholastic Endowment shall be used exclusively to support the Graduate Student Research Grant program.*

Discussion ensued on amending the fiscal year of the Society to coincide with the Annual Meeting. Currently, Article X of the Bylaws states that: "The fiscal year of the Society shall be the calendar year". This discussion was generated from the July 16, 2017 Board decision to combine annual dues payments with Annual Meeting registration. Suggestions included: 1) beginning the fiscal year at the end of the Annual Meeting (this coincides with terms of elected Board members); 2) beginning and ending the fiscal year on a fixed date; for example, on July 1

– through June 30; and 3) leaving the fiscal year alone and removing the language from Article XII: Section C. that states in part “Annual dues ~~are due by Jan. 31<sup>st</sup>.~~ and shall in no case be paid later than...”

**Education and Outreach Committee:** No report.

**Exhibits Committee:** No report.

**Finance Committee:** No report.

**Legislative Committee:** No report.

**Meeting Planning Committee:** Chair Tommy Bowen informed the Board that there was an issue with many more people attending the Awards Banquet than registered for the Banquet. While this is excellent for the Society, it puts a strain on meeting planning. 130 were registered for the Tuesday Awards Banquet and a few additional attendees were expected; however, 190 showed up. A plated dinner for the Banquet was \$46. If 60 more dinners were ordered with the Hotel and people did not show up, the Society would still have to pay for the numbers of plates ordered – about \$2,700 in this case. There was sufficient room to add additional tables, and the Hotel was able to provide the additional food at last minute notice.

Bowen also addressed the declining attendance for the Guest Tour. Guest Tour attendance has declined for four years from 17 in Myrtle Beach to 11 in Grand Rapids. APMS must pay for a minimum number of attendees. In this case the minimum was 20, with a cost of \$2,700. Only eight attended the tour to St. Augustine during the 2017 Annual Meeting. Bowen recommended that APMS offer no guest tour in 2018 and see if there is negative feedback from the Membership. The 2018 meeting will be in Buffalo. APMS can provide information on places of interest in the Buffalo area, for example Niagara Falls, and conference attendees can make their own tour arrangements.

Bowen concluded with discussion on sites for the 2021 Annual Meeting. APMS has met in Savannah twice, Nashville, Memphis, New Orleans. Bowen has received some feedback about returning to New Orleans. He suggested that if the Board is hesitant to hold the 2018 Midyear Board meeting in Buffalo due to snow concerns, meet in a MidSouth city and leverage that toward negotiations for a 2021 hotel meeting site.

**Membership Committee:** No report.

**Nominating Committee:** No report.

**Past President’s Advisory Committee:** No report.

**Program Committee:** Chair Craig Aguillard advised that he has had several offers for help to register speakers for the 2018 Annual Meeting. Aguillard lead discussion on moving the Awards Banquet from Tuesday to Wednesday evening. The Awards Banquet is the signature social event of the Annual Meeting, and is viewed by some as the end of the meeting. Attendance falls



for the Wednesday Program sessions and many who remain at the Hotel are busy breaking down displays or saying good-bye to other delegates. Aguillard suggested finishing the meeting with the banquet on Wednesday evening. The post-conference Board meeting would be Thursday morning, or could be worked in before the Awards Banquet if the Program Sessions ended at about 2:30 p.m. on Wednesday. A decision must be made no later than the January 2018 Midyear Board meeting. Considerations for ending with the Banquet on Wednesday evening include:

- ending with the Awards Banquet on Wednesday punctuates the Annual Meeting
- allows for a full day for travel on Thursday to return home
- allows more time for student presentations and judging
- people may leave early Wednesday and not attend the Banquet
- APMS needs the Banquet numbers to be high to cover food and beverage costs
- ending the meeting on Wednesday afternoon results in many leaving the conference early
- allows time for workshops on Wednesday afternoon, before the Awards Banquet
- the post-conference Board meeting would be Wednesday afternoon or Thursday morning
- increases the number of nights that people would need to stay for the meeting

**Proposal Review Committee:** Chair Rob Richardson advised that no proposals were submitted to the Committee.

**Publications Committee:** No report.

**Regional Chapters Committee:** Craig Aguillard reported that attendees at the Regional Chapter Presidents' Luncheon liked the APMS Strategic Planning format and results and asked for a copy to apply to their regions. There was also regional support for the APMS GSRG and the *Research Methods in Aquatic Plant Management* document being assembled by Editor Jay Ferrell. Chapter Presidents agreed to take this information back to their Boards for approval and financial support. Deborah Hofstra advised that there will be a meeting in August 2017 to decide whether to proceed with an Australia-New Zealand or Pacific APMS Chapter.

**Scholastic Endowment Committee:** No report.

**Strategic Planning Committee:** No report.

**Student Affairs Committee:** No report.

**Website Committee:** No report.

**AERF:** No report.

**BASS:** Jeremy Slade advised that the Proposal Review Committee he has received a request for funds to sponsor a BASS conservation award. The Committee will review and provide a recommendation for vote at the 2018 Midyear Board meeting.

**CAST:** No report.

**NALMS:** No report.

**RISE:** No report.

**Science Policy Director:** No report.

**Women of Aquatics:** Amy Kay advised there were 22 in attendance at the Women of Aquatics Luncheon provided by APMS. There was discussion on how WOA will affiliate with APMS. WOA officially organized as a non-profit entity in March 2017. The Board is looking for clarification on the status of WOA, particularly regarding funding a WOA Luncheon during Annual Meetings. Currently, APMS funds luncheons for APMS Standing Committees (Past Presidents' Advisory, Regional Chapters Presidents', and Student Affairs) to discuss matters related to APMS at the Annual Meeting.

Non-profit (501C3) organizations such as AERF, BASS, CAST, RISE, etc. affiliate with APMS through a Special Representative. AERF has held luncheons during the APMS Annual Meeting and advertised in the meeting Program; however, APMS has not funded luncheons for non-profit entities. That has been the responsibility of the non-profit. APMS has funded three WOA Luncheons (2015-2017) as organizational events to assist APMS members who may want to organize or learn more about WOA. The Society wants to be consistent, providing funding for APMS Standing Committee Luncheons while assisting where possible with non-profit organization logistics during the Annual Meeting – keeping any funding as a responsibility of the non-profit.

President Rodgers suggested that APMS Standing Committees are designed to deal with the APMS's Mission. This may be different from WOA if their Mission is to advance the membership of WOA. Kay reported that WOA is only recently established as a no-profit and does not have an official membership. Rodgers suggested WOA develop a proposal for affiliation between APMS and WOA to present at the Midyear meeting.

**WSSA:** No report.

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

**Old Business:**

No Old Business.

**New Business:**

Discussion centered on site selection for the Midyear Board meeting. The NEAPMS meeting is January 10-12. Southern Weed Science and WSSA meetings are scheduled for the end of January. The best available dates - agreed upon by the Board - are January 15-17. New Orleans is under consideration for the 2021 Annual Meeting, and the Board meeting could be scheduled

at a potential Annual Meeting hotel site. Board members were apprehensive about traveling to Buffalo in January because of the potential for lake-affect snow disrupting travel and meeting attendance.

***Craig Aguillard motioned the Board to adjourn to meeting. Ryan Thum seconded the motion. The motion passed without dissenting vote.***

The Board meeting adjourned at 6:05 p.m.

DRAFT

**Department of  
Forestry and  
Environmental  
Conservation**

Academic Programs:

Environmental and Natural  
Resources (B.S.)

Forest Resource  
Management (B.S.)

\*Forest Resources  
(M.S., M.F.R., Ph.D.)

Wildlife and Fisheries  
Biology (B.S., M.S., Ph.D.)

College of  
AGRICULTURE,  
FORESTRY & LIFE  
SCIENCES

261 Lehotsky Hall  
Box 340310  
Clemson, SC  
29634-0310

(864) 656-3302  
(864) 656-3304 FAX

Board of Directors  
Aquatic Plant Management Society

January 1, 2018

Dear Members of the APMS Board of Directors:

We would like to express our appreciation for the award of the APMS Graduate Student Starry Stonewort Grant to Clemson University. This grant will be important in extending our research on this noxious algal species that is rapidly expanding in northern tier states. The funds provided by the grant will mostly be used to provide a research stipend to support Mr. Tyler Geer as he pursues his PhD degree. Tyler's doctoral research was outlined in the proposal. To this point, we have continued our research on Starry Stonewort in Minnesota and are preparing to expand into Michigan, Indiana, and Wisconsin this year. We will keep you informed as we make progress in this research.

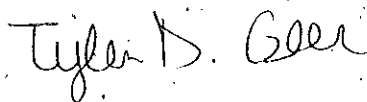
Again, thank you for the financial support. We feel this is an important contribution to student support and the future of APMS, and we will do our best to discern a science-based strategy to intervene in the spread of Starry Stonewort.

Sincerely yours,



John H. Rodgers, Jr., Ph.D.  
Professor

Department of Forestry and Environmental Conservation  
Clemson University



Tyler D. Geer, M.S.  
Graduate Research Assistant

## Report of the President to the Board of Directors, Aquatic Plant Management Society

January 1, 2018

The fall and winter (to this point) have been exceptionally busy. As the record lake-effect snowfall grows in the north, the decision to have the Winter Board meeting in New Orleans looks better and better. After the recent APMS Strategic Planning session, I decided to focus my efforts this year on enhancing communication (internal and external) and expanding membership and participation (both numerically and by sectors). To that end, I have endeavored to: 1) seek exceptional speakers providing sound science for the Annual Meeting and to support the APMS Journal, 2) participate in meetings of allied organizations and invite colleagues to join APMS, and 3) reach out to local, state and federal government employees and scientists that would be good potential members.

Some of the activities that I have undertaken to date are noted below:

- Participated in the International Conference on Invasive Species in Ft. Lauderdale, Florida.
- Participated in the South Carolina APMS Meeting in Myrtle Beach, SC.
- Provided science information for herbicide and algaecide registration to US EPA.
- Participated (through Mr. Tyler Geer) in Mid-South AMPS meeting in Birmingham, Alabama.
- Organized a Starry Stonewort Safari inspecting infestations and learning about control tactics and management strategies in northern tier states.
- Participated in the US EPA HAB Webinar.
- Participated in the Annual Meeting of the Society of Environmental Toxicology and Chemistry in Minneapolis, Minnesota.
- Assisted development of proposal for integrated research center for noxious algae and vascular plants with US Army CoE.
- Continued research on Starry Stonewort management in Minnesota (Lake Sylvia and Lake Koronis).
- Participated in the Northeast APMS Meeting at Wentworth by the Sea in New Hampshire.

I am looking forward to an outstanding meeting in Buffalo, NY, in July, 2018. Happy New Year!

Respectfully submitted,



John H. Rodgers, Jr., President

January 16, 2018

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 12/31/2017.

**Investment Portfolio Performance:** See Finance Committee Report.

**2017 Income and Expenses.**

**Enclosure 2** is a summary of income and expenses for the period January 1, 2017 through December 31, 2017.

**2018 Budget.**

**Enclosure 3** is a preliminary budget for the period of January 1, 2018 through December 31, 2018 which estimates a net income (deficit) of -\$39,425.

**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, 2017. In addition, they will prepare our federal information return for the year ended December 31, 2017. The estimated fees for these services should not exceed \$6,000.00.

**Accounts Payable of Interest:**

Louisiana State University (Year 2) - \$20,000

Starry Stonewort GSRG (Year 1) - \$30,000 total (\$5,000 from APMS)

Total = \$50K

CAST renewal- \$1,500 (invoice included)

AERF renewal- \$1,000

RISE- \$500

WSSA 2017- \$5,278

Website Administration- \$912.50/quarter

Editor and Secretary Stipends- \$8,000

Plant Camp request- \$1,000-2,000 (request included)

BASS conservation award- \$3,000 (request included; post-payment for 2017 and request for 2018)

Allen Press- January 2018 volume of the JAPM \$5K

Research Methods Publication- \$20-25K

Total = \$51,690 (next 6 months)

**4 Enclosures**

The Aquatic Plant Management Society, Inc.  
General and Scholastic Accounts  
December 31, 2017

General and Scholastic Accounts

General Accounts

Checking (general op)	\$51,289.80 (12/31/17)
Investment (emergency)	\$248,026.90 (12/29/17)

Total General Accounts	\$299,316.70
------------------------	--------------

Scholastic Accounts

Checking (discretionary)	\$57,855.08 (12/31/17)
Investment (disc. subaccount)	\$138,200.32 (12/29/17)

Total Scholastic Accounts	\$196,055.40
---------------------------	--------------

Total General and Scholastic Accounts	\$495,372.10
---------------------------------------	--------------

**The Aquatic Plant Management Society, Inc.**  
**2017 Income and Expense Report**  
 January through December 2017

	Jan - Dec 17
Ordinary Income/Expense	
Income	
Annual Meeting Income	
Contributions	71,065.00
Delegate 1-Day Registration	500.00
Delegate Pre-Registration	24,775.00
Delegate Registration	11,100.00
Event Tickets	775.00
Exhibit Fees	18,400.00
Guest Pre-Registration	1,300.00
Guest Registration	155.00
Guest Tour	50.00
Student Registration	225.00
Total Annual Meeting Income	128,345.00
Education/Outreach Income	755.00
Journal Income	
Page Fees	11,697.50
Royalties	67.65
Subscriptions	7,400.00
Journal Income - Other	9,500.00
Total Journal Income	28,665.15
Membership Income	
Individual	12,000.00
Student	160.00
Sustaining	11,500.00
Total Membership Income	23,660.00
Scholastic Endowment Income	
Duck Race	2,250.00
Graduate Assistantship	
Starry Stonewort Grant	30,000.00
Graduate Assistantship - Other	8,150.00
Total Graduate Assistantship	38,150.00
Miscellaneous	220.00
Raffle & Silent Auction	3,889.00
Total Scholastic Endowment Income	44,509.00
Total Income	225,934.15
Expense	
American Express Annual Fee	140.00



# The Aquatic Plant Management Society, Inc. **2017 Income and Expense Report** January through December 2017

	Jan - Dec 17
Annual Meeting Expense	
Audio Visual Equipment	4,660.01
Banquet	17,883.76
Deposit	500.00
Food & Beverage	27,252.40
Guest Tour	2,675.00
Meeting Planner	2,147.85
President's Reception	14,557.54
Program	1,145.00
Shipping of Materials	235.95
Signs	1,747.00
Student Guest Rooms	7,924.00
Student Meals	315.06
Student Tour	515.05
Annual Meeting Expense - Other	-1,111.58
Total Annual Meeting Expense	80,447.04
Awards	
Plaques/Certificates	1,789.21
Poster Award	600.00
Awards - Other	700.00
Total Awards	3,089.21
Corporation Annual Report Fee	61.25
Credit Card Merchant Processing	
Card Fees	5,796.10
Total Credit Card Merchant Processing	5,796.10
Dues	
AERF	1,000.00
CAST	1,500.00
RISE	500.00
WSSA	5,278.00
Total Dues	8,278.00
Education/Outreach	
Insurance	17,517.80
Board of Dir. & Gen. Liability	800.00
Commercial Bond	221.00
General Liability	708.32
Total Insurance	1,729.32

**The Aquatic Plant Management Society, Inc.**  
**2017 Income and Expense Report**  
 January through December 2017

	Jan - Dec 17
Journal Expense	
Editor Stipend	6,000.00
Manuscripts	14,390.11
Printing & Postage	96.55
Total Journal Expense	20,486.66
Meeting Planner	
Current Year Meeting	959.20
Meeting 3 years out	750.00
Total Meeting Planner	1,709.20
Miscellaneous	73.99
Professional Fees	
Accounting	6,000.00
Consulting	2,449.97
Total Professional Fees	8,449.97
Scholastic Endowment Expense	
Graduate Assistantship	40,000.00
Scholastic Endowment Expense - Other	309.72
Total Scholastic Endowment Expense	40,309.72
Secretary Stipend	10,000.00
Shipping	7.60
Supplies	527.01
Travel	
Board Member Travel to Meetings	898.42
President's	2,667.18
Registration Booth Staff	708.60
Total Travel	4,274.20
Website	
Administration	3,300.00
Total Website	3,300.00
Winter Board Meeting	
Audio Visual Equipment	255.60
BOD Hotel Rooms	867.18

**The Aquatic Plant Management Society, Inc.**  
**2017 Income and Expense Report**  
January through December 2017

	Jan - Dec 17
Meals	6,116.90
Travel	349.01
Total Winter Board Meeting	7,588.69
Total Expense	213,785.76
Net Ordinary Income	12,148.39
Net Income	<b>12,148.39</b>

**The Aquatic Plant Management Society, Inc.**  
**Preliminary Budget**  
January through December 2018

**Income/Expense**

**Income**

Annual Meeting Income	110,000.00
Journal Income	20,000.00
Membership Income	24,000.00
Scholastic Endowment Income	36,500.00
<b>Total Income</b>	<b>190,500.00</b>

**Expense**

Annual Meeting Expense	75,000.00
Awards	3,000.00
Contributions	5,000.00
Dues	8,250.00
Fees	6,000.00
Insurance	2,300.00
Journal Expense	45,000.00
Postage and Shipping	125.00
Printing and Reproduction	900.00
Professional Fees*	17,500.00
Scholastic Endowment Expense	50,000.00
Supplies	350.00
Travel	5,000.00
Website	4,000.00
Winter Board Meeting	7,500.00
<b>Total Expense</b>	<b>229,925.00</b>

<b>Net Income</b>	<b>-39,425.00</b>
-------------------	-------------------



---

## SPONSORSHIP PACKET

---









Plant Camp is an annual five-day workshop designed to provide educators with the information, resources, and tools needed to teach their students about the problems invasive plants are causing in Florida's natural areas and the methods in which these invasive plants are managed. The workshop provides participants with laboratory and field experience with experts in aquatic and upland plant biology, ecology and management. Long-term goals are to raise awareness of the ecologic and economic issues caused by invasive plants, bring about acceptance of invasive plant management methods, and to foster environmental stewardship in Florida's youth.

***Sponsorship levels available for any size company or organization!***



Florida Invasive Plant Education Initiative • <http://plants.ifas.ufl.edu/education>  
A Collaboration of the UF/IFAS Center for Aquatic and Invasive Plants  
and the Florida Fish and Wildlife Conservation Commission / Invasive Plant Management Section

## Did you know?

-  In Florida, there are more than 500 non-native wildlife species and over 1,000 non-native plant species.<sup>1</sup> Most non-native species are not a problem, but approximately 130 plant species are considered invasive.
-  An invasive species is “a species that is non-native to the ecosystem under consideration and whose introduction causes or is likely to cause economic or environmental harm or harm to human health.”<sup>2</sup>
-  Managing invasive plants is expensive, costing Florida taxpayers more than \$30 million dollars per year.<sup>3</sup>
-  There are 24 aquatic plants in Florida that are currently considered invasive. Invasive aquatic plants now impact over 1 million acres of Florida’s freshwater lakes, ponds, rivers and streams.<sup>4</sup>
-  Invasive aquatic plant species can block flood control devices and structures; cause navigation problems on lakes and rivers; and harbor mosquitos; while invasive terrestrial plants can create fire pathways to tree tops and tangle electrical lines. Both can destroy valuable fish and wildlife habitats. Invasive plants can be dangerous for boaters, swimmers, hikers and homeowners.
-  Florida fresh water bodies generate \$1.9 billion in annual fishing revenue and \$55 million in annual state sales and motor fuel tax revenue. Aquatic invasive species can ruin our fishing industry.
-  Over the past 12 years, Plant Camp has provided 300 teachers with the knowledge and resources required to help their students recognize the economic and ecological harm invasive species can create.
-  It is estimated that over 200,000 students have been reached through teachers attending Plant Camp since the first workshop in 2006. Many Plant Camp graduates also share their new knowledge and resources with fellow educators, exponentially increasing the number of students reached.

---

<sup>1</sup> Florida Fish and Wildlife Conservation Commission. <http://myfwc.com/wildlifehabitats/nonnatives/>

<sup>2</sup> National Invasive Species Council. <https://www.invasivespeciesinfo.gov/whatis.shtml>

<sup>3</sup> Florida Department of Agriculture and Consumer Services. <http://www.freshfromflorida.com/Divisions-Offices/Florida-Forest-Service/Our-Forests/Forest-Health/Invasive-Non-Native-Plants>

<sup>4</sup> Florida Fish and Wildlife Conservation Commission. Annual Report of Activities Conducted under the Cooperative Aquatic Plant Control Program in Florida Public Waters for Fiscal Year 2015-2016. <http://myfwc.com/media/4137470/annualreport15-16.pdf>

## Plant Camp 2018 Sponsorship Levels & Benefits

Sponsorship Levels and Benefits	Platinum (\$2000+)	Gold (\$1000-\$1999)	Silver (\$500-\$999)	Bronze (\$100-\$499)
Logo on Plant Camp Daily Welcome Banner	✓			
Logo on Event T-shirt	✓	✓		
Plant Camp Daily Table Cards	✓ (Logo)	✓ (Listing)		
Education Initiative Social Media (Facebook and Twitter)	✓ (Logo)	✓ (Listing)	✓ (Listing)	
Education Initiative website (Plant Camp 2018 page)	✓ (Logo)	✓ (Logo)	✓ (Listing)	✓ (Listing)
Plant Camp print recognition (agenda, teacher notebooks)	✓ (Logo)	✓ (Logo)	✓ (Listing)	✓ (Listing)
Commemorative Certificate	✓	✓	✓	✓

### Commitment Deadlines:

Logo or listing on website:	May 15, 2018
Logo or listing on social media:	May 15, 2018
Logo on t-shirts:	March 1, 2018
Logo or listing on printed materials:	March 1, 2018

## Plant Camp 2018 Sponsorship Form

\_\_\_ Platinum – \$2,000+    \_\_\_ Gold – \$1,000-\$1,999

\_\_\_ Silver – \$500-\$999    \_\_\_ Bronze – \$100-\$499

Company: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Donation Amount: \_\_\_\_\_

Responsible Person's Signature: \_\_\_\_\_

Please email this form to [dillon@ufl.edu](mailto:dillon@ufl.edu) or mail to:

Center for Aquatic and Invasive Plants

PO Box 110610

Gainesville, FL 32611

Attn: Lynda Dillon

Once we have received your form, we will contact you to arrange for payment.

THANK YOU FOR YOUR CONTRIBUTION!



# Plant Camp 2018 In-Kind Contribution Form

Donated Item(s) or Service(s) - Name & Description

---

---

---

---

---

Fair Market Value Each: \$ \_\_\_\_\_ # Contributed \_\_\_\_\_ Total Value \$ \_\_\_\_\_

Donor Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Person (*if different*): \_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Please email this form to [dillon@ufl.edu](mailto:dillon@ufl.edu) or mail to:

Center for Aquatic and Invasive Plants

PO Box 110610

Gainesville, FL 32611

Attn: Lynda Dillon

Once we have received your form, we will contact you to make arrangements for your contribution.

THANK YOU FOR YOUR SUPPORT!



The Science Source for Food,  
Agricultural, and Environmental Issues

1481SocDues2018

10/30/17

4220 West Lincoln Way  
Ames, IA 50014-3447 USA  
Phone 515.292.2125 Fax 515.292.4512

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

DESCRIPTION	AMOUNT
2018 Society Member Dues	1,500.00
<hr/>	
Total	1,500.00

2018 Membership Year

Please make all check payable to Council for Agricultural Science and Technology (CAST).  
For questions or to pay by credit card, please call the CAST office at 515.292.2125.  
If you have questions concerning this invoice, contact Colleen Hamilton at 515.292.2125 x224 or [chamilton@cast-science.org](mailto:chamilton@cast-science.org).

Mail payment to:  
CAST  
4420 West Lincoln Way  
Ames, IA 50014-3347

*CAST is a qualified 501(c)(3) tax-exempt organization.  
Therefore, your membership and any additional contributions may qualify as a charitable contribution under IRS guidelines.  
You will receive verification on contribution.*

THANK YOU FOR YOUR GENEROUS SUPPORT!

# BASS Conservation Grant

Gerald Adrian

Thu 11/2/2017 8:22 AM

To: Craig Aguillard (caguillard@landolakes.com) <caguillard@landolakes.com>; Jeremy Slade <jeremy.slade@uniphos.com>;

Cc: carlton layne <layn1111@bellsouth.net>;

 2 attachments (2 MB)

BASS Report 7.11.2016.docx; BASS Report 7.14.2017.docx;

In July 2016 I proposed to the APMS BoD to continue the BASS Conservation Grant at the previous year's level of \$3000. This was to cover the Grant and the BASS Conservation Awards banquet at the Bassmasters Classic. Since there was no banquet, as BASS did not sponsor the Conservation Summit. This year's Grant was awarded in May to the New Mexico BASS Nation for \$3000. There was some confusion as to the amount, however it was for \$3000.

AERF has paid the NM BASS Nation for this Grant and is requesting APMS reimburse half of the Grant (\$1500).

In July 2017 I proposed that APMS-AERF continue with the BASS Conservation Grant. [The AERF has a BoD meeting next week and we will discuss this project at that time.](#) I have not committed to BASS for this Grant as of yet. We have other proposals on the table including plant camp for College BASS Tournament Team coaches from Brett Hartis, TVA. This has been proposed to Gene Gilliland as a potential project and he seems to be on-board. We should have more details next week and I will send a proposal to APMS once we have a plan going forward with BASS.

The BASS Conservation Grant has been productive and we may choose to continue to support this effort. However we are evaluating our options and should have a recommendation next week.

Thanks,

Gerald Adrian

UPI

Business Manager, Aquatics

610-745-7008

---

## UPL disclaimer

This e-mail and the files transmitted with it are confidential and intended solely for the use of the individual or entity to whom this is addressed. It may also be legally privileged. If you are not the intended recipient or have received it in error, please delete this e-mail and do not disseminate, distribute or copy this e-mail. Please also notify the sender immediately by return e-mail. Any unauthorized reading, reproducing, printing or further dissemination of this e-mail or its contents is strictly prohibited and may be unlawful. Internet communications cannot be guaranteed to be timely, secure, error or virus-free. The sender or UPL does not accept liability for any errors or omissions.

Aquatic Plant Management Society  
Board of Directors Meeting  
January 16, 2018  
Ritz-Carlton Hotel – New Orleans, LA

**Secretary Report**

Submitted by: Jeffrey D. Schardt

The following tasks have been completed since the Daytona Beach 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 that commit APMS funds is posted on the APMS web site under Members Only / Documents and Archives / APMS Business Motions 2009-2017. Other updates to the web site are listed under the Web Site Report in this Board Book.

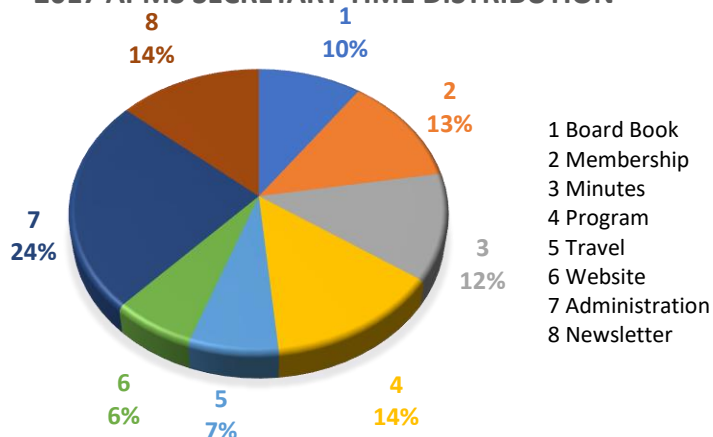
**Membership Invoices:** 2018 Invoices and information on APMS achievements for 2017 were emailed to Sustaining Members on January 2, 2018. We have built Sustaining Membership up to 25 from a low of 15 just a few years ago. APMS welcomed two new Sustaining Members in 2017. In addition to incentives of regular membership, APMS recognizes Sustaining Members in the APMS Newsletter, links Sustaining Member companies with the APMS webpage, and recognizes Sustaining Members in the Annual Meeting Program.

Dues notifications for Individual and Student Members were emailed on January 3 with assistance from the Website Committee and APEX. We sent notifications to members who had not renewed as far back as 2015. Dues payments can now be made online and received by the Treasurer who forwards to the Secretary for updating on the Membership database. Some people still FAX or email dues to the Treasurer.

**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 2017. I spent about 455 hours or about 22% of a full-time position performing APMS Secretarial duties. A monthly breakdown by task is available upon request.

**2017 APMS SECRETARY TIME DISTRIBUTION**



Board Book	Mbrshp.	Minutes	Program	Travel	Website	Admin.	Newsletter	Total
44.75	57.00	55.50	63.00	32.00	29.50	110.75	62.00	454.50

**2017 Expenditures:** As outlined in the APMS Operating Manual, I have included a breakdown of AMEX card expenditures for 2017 for the Office of the Secretary. Also below is the budget estimating expenditures for the Office of the Secretary for 2018.

Date	Shipping / Postage	Travel	Amount
07/19/17		BOD post-conference dinner	417.12
07/19/17		Student tour lunch	156.96
07/20/17		Student tour van rental	175.59
07/20/17		Student tour dinner	315.06
07/20/17		Gas Student tour	27.50
07/21/17		Gas - APMS Annual Meeting	24.30
07/26/17	Mail new member journals		7.25
08/24/17	Mail ND replace journal		2.45
09/14/17	Mail MSU replace journal		2.45
10/11/17	Mail new member journal		2.87
12/08/17	Mail Louisville replace journal		2.87
<b>Total</b>			<b>1134.42</b>

#### Proposed Budget for 2018 - Office of the Secretary

<u>Item</u>	<u>Estimated Cost</u>
Shipping and Mailing:	
Journal claims, invoices, letters, meeting materials, stamps, etc.	\$150
Office Supplies:	
BOD and annual meeting supplies, Envelopes, printer ink	\$50
Secretary Travel Expenses:	
hotel, meals, gasoline	\$1,580
<b>TOTAL</b>	<b>\$1,780</b>

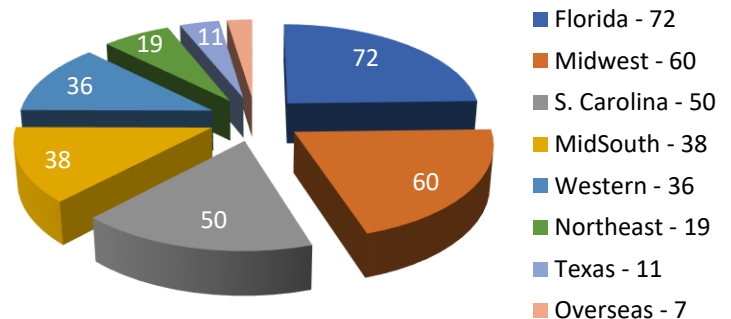
#### Travel Breakdown

Expense	Mid-year	Annual
hotel	450	900
travel	50	180
<b>Total</b>	<b>\$500</b>	<b>\$1080</b>

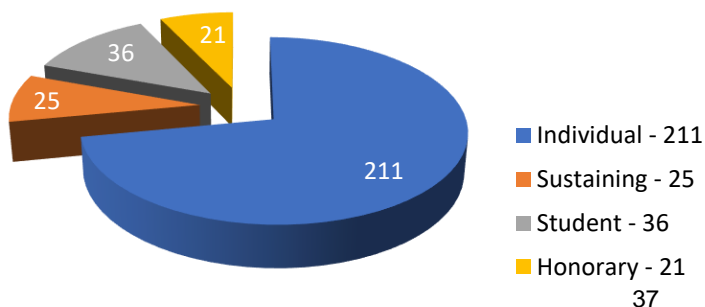
#### Membership:

The following charts break down APMS Membership as of December 31, 2017. The chart to the right shows the 293 APMS members by the Regional Chapter boundaries in which they reside. The bottom chart shows APMS members by membership type. The map on the following page shows 2017 APMS Members by state of residence and APMS Annual Meeting sites by decade.

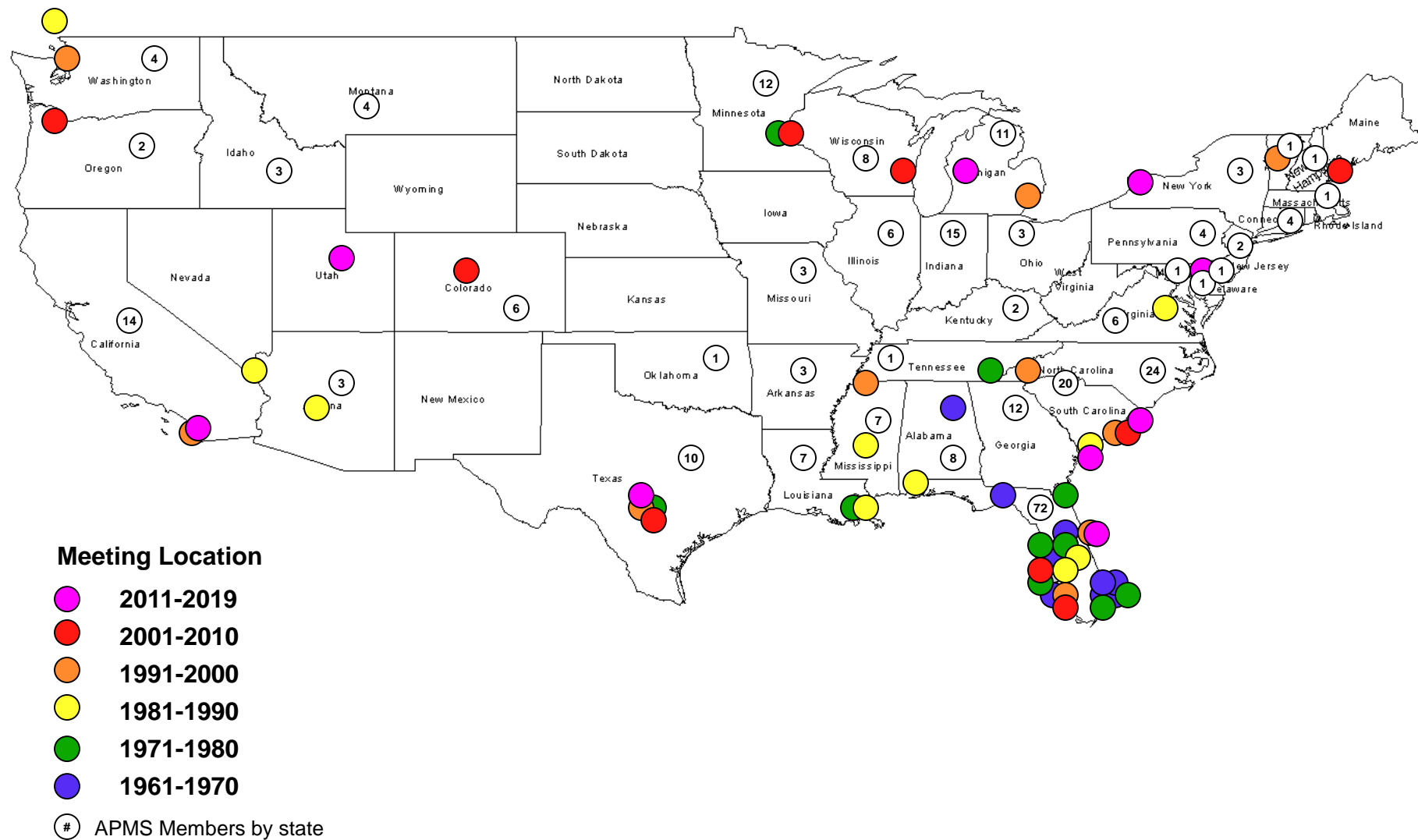
#### APMS Members by APMS Regional Chapter Boundary



#### APMS Membership Distribution



## APMS Annual Meeting Sites by Decade 1961-2019 and 2017 Member Logistics



Editor Report – Journal of Aquatic Plant Management  
January 2018 Board Meeting  
Jason Ferrell

JAPM 56:1 (Jan 2018) is fully edited and with the printer. It contains 11 manuscripts (8 papers and 3 notes).

Total number of submissions:

2012 – 48

2013 – 52

2014 – 50

2015 – 26

2016 – 34

2017 – 47 (these include the compendium papers)

2017 by the numbers

Accept            64%

Reject            22%

Resubmit        14%

On average, we are 36 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.

Change of publisher

I spoke with Taylor and Francis and they did not feel we were a good fit for their current portfolio.

I am currently in conversation with Sheridan Press and they appear to be interested in JAPM. However, they are a printing company just like Allen Press. They also do not have an online interface, though we could do this through a 3<sup>rd</sup> party. Regardless, I am not sure there are any advantages to Sheridan over AP.

Outstanding JAPM article award

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

Special Issue

The special issue should be delivered with the January 2018 JAPM. Five regional societies donated to this project as well as AERF for a total of \$20,000. For this funding, I committed to send the BOD for each society a physical copy. An electronic copy will be provided to the membership of the regional societies. This publication will also be promoted at the International meeting in New Zealand in February 2018.

**APMS Mid-Winter Board of Directors Meeting  
New Orleans, LA  
January 16, 2018**

**Report of the Awards Committee**

Chair: Jason Ferrell

Committee Members: Rob Richardson, John Madsen, and Ryan Wersal

The APMS recognizes members for various contributions via the presentation of awards during our banquet at the annual meeting. Criteria for the various awards are listed in the ops manual. The recognition of our members is an important function of APMS and the Awards Committee is seeking nominations for the following awards:

President's Award – (*Greg MacDonald and Linda Nelson 2015, John Madsen and Mike Netherland 2016; Jay Ferrell 2017*). The 2018 recipients will be nominated by Dr. John Rogers.

Honorary Member Award: (*Jim Schmidt 2016, Jeff Schardt, Joe Joyce 2017*)

T. Wayne Miller Distinguished Service Award - (*Jim Schmidt 2014, Jeff Schardt 2015, Craig Aguillard 2016, Tommy Bowen 2017*)

Max McCowen Friendship Award – (*Tommy Bowen 2014, Steve Hoyle 2015, Ken Manuel 2016, David Isaacs 2017*)

Outstanding Graduate Student Award – (*Justin Nawrocki 2014, Erica Haug 2015, Kyla Iwinski 2016, Alyssa Calomeni 2017*)

Outstanding Research or Technical Contributor Award – (*John Rodgers 2015, Rob Richardson 2016, Ryan Thum 2017*)

Outstanding International Contribution Award - (*No award in 2014 or 2015, Paul Champion 2016, John Clayton 2017*)

Outstanding JAPM Article Award – (*M. Netherland and L. Glomski 2015, Greg Bugbee et al. 2016, Nawrocki et al. 2017*). This award is administered by Dr. Ferrell and the Associate Editors.

During the Banquet we also recognize our outgoing Directors and Officers. During the meeting we select awards for Student Presentation, Poster Winners, and the Exhibitors Excellence Award.



## **From the Ops Manual**

### **Awards Committee**

1. Be comprised of not less than three (3) voting members of the Society.
2. Prior to the Annual Meeting, the Chair shall solicit through the Newsletter and Website or shall make recommendations to the Board, nominations for membership awards qualifying in accordance with Chapter IV, Section A of this Operating Manual.
3. Prior to the Annual Meeting, arrange for the purchase and inscription of plaques, certificates, and other items to be presented at the Annual Meeting.
  - a. Honorary Member Award – check with the Bylaws and Resolutions Committee for candidates.
  - b. President's, T. Wayne Miller Distinguished Service, and Max McCowen Friendship Award – check with current President as to recipients, if any. APMS Operating Manual updated March 2013
  - d. Outstanding Graduate Student Award – Check with current President as to recipients, if any. Outstanding JAPM Article Award – check with current President or Editor as to recipients, if any.
  - h. Student Presentation Awards – coordinate with Student Affairs Committee.
  - i. Exhibitor's Excellence Award – coordinate with Exhibits Committee.
  - j. Outgoing Officers and Directors – coordinate with the Nominating Committee.
4. At the Annual Meeting, coordinate participation, qualifications, criteria and student panel judge selection for the (non-student) Best Poster Award.
5. Utilize and update, as necessary, the APMS Award/Honors Procedures and Criteria found in Chapter IV, Section A of this Operating Manual, and assist in determining copy on plaques, certificates, etc.
6. Provide the Membership Committee annual lists of Awards and Honor recipients for entry into the Society's permanent record and posting on the website.

Respectfully Submitted,

Jason Ferrell  
Chair, Awards Committee

Bylaws Committee Report  
Submitted by Chair: Vernon Vandiver  
Committee Members:  
Donald Doggett  
John Gardner  
Harry Knight  
Ken Manuel  
Samantha Sardes

At the request of the APMS Finance Committee, the APMS Bylaws and Resolutions Committee is proposing changes to "ARTICLE XVI. SCHOLASTIC ENDOWMENT." The proposed new wording, to reflect the intent of the APMS Finance Committee is shown below:

#### ARTICLE XVI. SCHOLASTIC ENDOWMENT

Section A. The Aquatic Plant Management Society Scholastic Endowment shall be used to fund the Aquatic Plant Management Society Graduate Student Research Grant program.

Section B. The Aquatic Plant Management Society Scholastic Endowment fund shall be maintained in a separate account, administrated by the Aquatic Plant Management Society Board of Directors, and shall be used in perpetuity solely to fund the Aquatic Plant Management Society Graduate Student Research Grant program. Expenditures shall be made to Research Grant recipients following recommendation by the Aquatic Plant Management Society Vice President and the Vice President's Research Grant Review Committee, with the approval of the Aquatic Plant Management Society Board of Directors.

Aquatic Plant Management Society  
Board of Directors Meeting  
January 16, 2018  
Ritz-Carlton Hotel – New Orleans, LA

**Education and Outreach Committee Report**

Submitted by: Jeff Schardt

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

**1) APMS Conference Display Update**

The APMS display has been upgraded to two retractable banners with a light-weight shoulder carrier sturdy enough to ship to meetings. Text and photos were also updated. Total cost for two banners, case, and labor ~\$770 (see attached estimate).

**Board Action:** None

**2) APMS PowerPoint**

The APMS PowerPoint presentation was updated with info and pictures from the 2017 Annual Meeting. It is posted on the APMS web site under Resources / Marketing Material. The PowerPoint presentation can be used by Board members talking about APMS at conferences. It can also be accessed by others looking for historical and current info about APMS.

**Board Action:** None

**3) Florida Plant Camp**

Florida Plant Camp will be held at the University of Florida and various field sites in central Florida on June 11-15, 2018. More than 300 teachers have participated in Plant Camp since 2001, and have reached more than 200,000 students. APMS has been a long-time financial sponsor of FL Plant Camp providing funds to develop classroom criteria and materials as well as meals during workshop field trips. FL has also served as a vehicle for other APMS Regions to establish education programs for teachers. FL Plant Camp organizers have requested \$1,000 in APMS sponsorship again for 2017 (attached).

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

APMS has supported travel expenses for six instructors (from North and South Carolina, Alabama, and Tennessee) to attend Plant Camp and take information back to their schools for further development in their regions. Brett Hartis worked with two Tennessee Plant Camp attendees to develop a TVA area Plant Camp. We have discussed with EPA to send two pesticide regulatory personnel to Plant Camp 2018.

**Board Action:** Approve travel expenses for two non-Florida teachers, instructors, or EPA regulatory staff if approved to attend 2018 Florida Plant Camp.

John Cross <john.cross@vsdisplay.com>

Sorry it's taken so long to get this to you.

2 Economy Retractable	\$179 each
includes printed graphic	
1 Hard travel Case	\$109 each

Design art for 2) 33.5" wide x 80" tall graphics.  
Client is to provide all Images and copy.  
Based on 3 hours or less \$250 total

Project projected budget \$717 + Florida sales tax.

NOTE: New Address

John Cross  
Visual Solutions  
850.224.4252 office  
850.556.2873 cell  
1486 Max Drive  
Tallahassee, Florida 32303  
VSdisplay.com

In September 2017, educators from Tennessee and Mississippi attended “TVA Plant Camp”, a 3-day workshop focusing on non-native and invasive plant species in the Tennessee Valley. Twenty-four (24) educators were selected from nearly 100 applicants to attend the camp where they learned about some of the Tennessee Valley’s most problematic plants. Elementary through high school teachers were taught basic plant identification, aquatic and terrestrial plant science, fisheries management, as well as aquatic plant management tools and techniques.

Working from the University of Florida model, this workshop gives teachers the background and materials to teach students about environmental and economic impacts of invasive species in and on local lands and waters. The camp was led by TVA Aquatic Plant Management Program Manager Brett Hartis and his staff along with guest speakers from Mississippi State University, AERF, and Aqua Services Inc. On day one, the teachers got acquainted and worked through an introduction to invasive species which included the recently released National Silent Invaders Video. On day two, the teachers were given hands on experience with aquatic plant identification and wetland functions as well as management demonstrations and an airboat tour of Watts Bar Reservoir. On day three, the teachers were introduced to relationships between plants and fish and were able to take part in electrofishing surveys. The teachers were also taken on a hike showcasing the region’s troublesome terrestrial invaders and were introduced to prescribed fire as a management tool.

Lastly, the teachers were introduced to Lakeville-A Natural Resource Management Activity designed specifically for the mid-south region by the University of Florida. The event was co-sponsored by the Aquatic Plant Management Society, Aquatic Ecosystem Restoration Foundation, Mississippi Department of Natural Resources, and the MidSouth Aquatic Plant Management Society.







Subject: Exhibits Report

January 4, 2018

From: Dean Jones

### **Exhibitors**

Thirty-one Exhibitors attended the 2017 APMS meeting in Daytona, FL including 28 representing industry and three non-profits, AERF, APMS and NALMS. With the \$100 increase in the exhibit fee for 2017, the total income to APMS from Exhibitors was \$17,600.

### **Sponsors**

Industry responded positively to the Sponsor Levels and Benefits revisions adopted by the Board in March 2017. There were 18 Sponsors for the 2017 APMS meeting in Daytona, FL including two Platinum Sponsors (Lake and Wetland Management, Inc. and UPI) and four Gold Sponsors (Lonza, Nufarm Americas, SePRO and Syngenta). Most of these sponsors took advantage of the opportunity to provide short presentations. There were also two Silver Sponsors, two Bronze Sponsors and eight Contributors. The total income to APMS from sponsors for the 2017 Annual Meeting was \$69,890 (includes an anonymous donation of \$2,470). This level of funding denotes a considerable increase over the last several years. To my knowledge, there have been no negative comments concerning the newly adopted Sponsor Levels and Benefits.

# Finance Committee Report

January 2018 APMS Winter Board Meeting

John Gardner - Chair

## December 31, 2017 Investment Balances Report

General Operating Account: Ending balance increased by \$22,016.66 from 12/31/2016

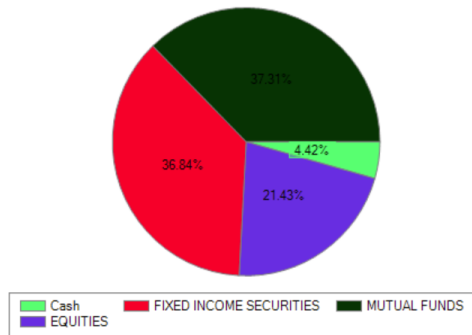
Endowment Account: Ending balance decreased by \$18,590.41 from 12/31/2016.

## General Operating Account:

### Holdings Summary

	Market Value	Pct. Portfolio
Cash		
Cash	0.00	0.00%
MISC CASH EQUIV-TXBL	10,967.29	4.42%
Cash Total	10,967.29	4.42%
EQUITIES		
MUTUAL FUNDS-TAXABLE	15,220.83	6.14%
STOCK - COMMON	37,925.62	15.29%
EQUITIES Total	53,146.45	21.43%
FIXED INCOME SECURITIES		
MUTUAL FUNDS-TAXABLE	91,374.62	36.84%
MUTUAL FUNDS		
MUTUAL FUNDS-TAXABLE	92,538.54	37.31%
Grand Total	248,026.90	100.00%

Summary Graph

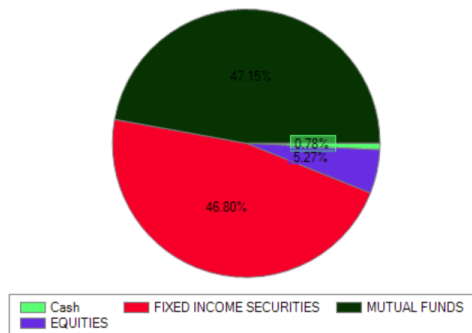


## Endowment Account

### Holdings Summary

	Market Value	Pct. Portfolio
Cash		
Cash	0.00	0.00%
MISC CASH EQUIV-TXBL	1,081.85	0.78%
Cash Total	1,081.85	0.78%
EQUITIES		
MUTUAL FUNDS-TAXABLE	7,289.66	5.27%
FIXED INCOME SECURITIES		
MUTUAL FUNDS-TAXABLE	64,673.61	46.80%
MUTUAL FUNDS		
MUTUAL FUNDS-TAXABLE	65,155.20	47.15%
Grand Total	138,200.32	100.00%

Summary Graph





**Legislative Report**  
**Submitted by: Rob Richardson**

There has been no action by the legislative committee since the annual meeting. There is not much to add over Lee Van Wychen's report. One interesting bit follows:

"In an October 16, 2017 memo that said Sue and Settle is "collusion with outside groups," creates rules "outside the normal administrative process," and excludes "stakeholders" from the rulemaking process, EPA Administrator Pruitt issued a Directive that terminated the Sue and Settle policy. He did not mince words: "EPA will not resolve litigation through backroom deals with any type of special interest group." The Directive makes three major revisions to EPA's procedures for resolving citizen suits under environmental statutes. "

<http://www.williamsmullen.com/news/sue-and-settle-gone-epa-administrator-revises-epa-litigation-policy>

January 3, 2018

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

Subject: Report of the Meeting Planning Committee (MPC)

**Committee Members:**

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

**57<sup>th</sup> Annual Meeting, July 16-19, 2017, Daytona Beach, Florida**

After reviewing the Treasurer's budget and adding expenses to the MPC budget not captured in the past, our income for the Daytona Beach meeting was \$40K.

**58<sup>th</sup> Annual Meeting, July 15-18, 2018, Buffalo, New York**

Enclosure 1 is a preliminary budget for the 58<sup>th</sup> Annual Meeting. This budget is based on an attendance of 170 delegates, exhibitors, students, and guests. A net income of \$22K is estimated for this annual meeting. The conference rate is \$159 per night. The Committee continues to finalize the information for the web site, articles for upcoming newsletters, and soliciting donations for meeting sponsorship. There will be no Society sponsored Guest Tour this year. However, tours will be highlighted in an upcoming newsletter article and tour information will be provided to the registration desk. In addition, the Committee is coordinating with Bill Torres concerning our meeting requirements and will be coordinating with APMS officers and committee chairs regarding other meeting necessities (exhibits, registration, audio/visual, student rooms, raffle/silent auction, etc.).

**59<sup>th</sup> Annual Meeting, July 14-17, 2019, San Diego, California**

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

**60<sup>th</sup> Annual Meeting, July 19-22, 2020, San Antonio, Texas**

The 60<sup>th</sup> annual meeting will be held at the Hyatt Regency North Riverwalk Hotel in San Antonio, Texas. The conference rate is \$169 per night. The contract was signed on May 31, 2017 by President John Madsen.

**61<sup>st</sup> Annual Meeting, July 2021, Mid-South Region.**

**ACTION ITEM.** After reviewing over 22 venues in 13 cities in Alabama, Arkansas, Georgia, Louisiana, Kentucky, and Tennessee, the MPC recommends the Board approve travel and expenses for Bill Torres to conduct site visits in Little Rock, Louisville, and New Orleans for the 2021 annual meeting. Bill's travel may last up to four days.

1 Enclosure  
Tommy

# Preliminary Budget

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

**Income/Expense**

**Income**

Exhibitor Fees (22)	17,600.00
Delegate Registration (105)	31,500.00
Late Registration (13)	4,875.00
Guests (10)	1,300.00
Students (20)	-
Total Registration	37,675.00
Sponsor Contributions	<u>45,000.00</u>

**Total Income** **100,275.00**

**Expense**

Audio Visual*	4,800.00
Food and Beverage	
Banquet	9,595.00
Board of Directors Meetings	1,929.00
Past Presidents' Luncheon	405.00
Poster Session Reception	4,795.00
President's Reception	3,590.00
Continental Breakfasts / Refreshment Breaks	18,322.00
Women in Aquatics Luncheon	405.00
Student Meet and Greet	
Regional Chapters Presidents' Luncheon	539.00
Student Affairs Luncheon	675.00
Sales Taxes (8.75%) / Service Charges (22%)	13,153.32
Total Food and Beverage	53,408.32
Meeting Signage	2,000.00
Student Tour	1,000.00
Poster Boards	400.00
Program	1,500.00
Meeting Planner Fee	2,500.00
Student Guest Rooms / Meals / Awards	6,500.00
Plaques/Certificates	3,000.00
Registration Booth Staff Travel	1,000.00
President / Secretary Travel	2,000.00
Host Affiliate Society Reimbursement	

**Total Expense** **78,108.32**

**Net Income** **22,166.68**

\* Florida Event Planning and Meeting Service estimated A/V costs. Hotel quote \$9600



**Florida Event Planning & Meeting Service**  
**Mid-Year Report**  
**for the**  
**Aquatic Plant Management Society**  
**2018 Annual Meeting**

Venue Information	Hyatt Regency Buffalo Hotel & Conference Center Two Fountain Plaza Buffalo, NY 14202 716-855-4950							
Meeting Dates	Saturday : July 14, 2018 Sunday: July 15, 2018 Monday: July 16, 2018 Tuesday: July 17, 2018 Wednesday: July 18, 2018							
Guest Room Information	Rate & Tax	\$159.00 single/double 13.75%						
	Reservation cut- off Date	June 23, 2018						
	Room Block	Saturday	Sunday	Monday	Tuesday	Wednesday	Total	
		45	125	125	125	250	445	
	Reservation Link	Booking Website: <a href="https://aws.passkey.com/e/13947061">https://aws.passkey.com/e/13947061</a>						
Food and Beverage Information	Guaranteed Commitment	\$20,000						
	Service Charge	21%						
	Tax	8.75%						
	Attrition	80%						
Concessions	<ul style="list-style-type: none"><li>One complimentary room for every 40 guest rooms occupied</li><li>Complimentary Meeting &amp; Exhibit Space</li><li>30 - Complimentary exhibit table top</li><li>Upgrades: 1- VIP Suite, 10-Executive King Corner Rooms at Group rate</li><li>Complimentary internet in all guest rooms, meeting space &amp; registration area</li><li>Lock in Food and Beverage prices at time of contract signing. 2015</li></ul>							
Due Dates	<ul style="list-style-type: none"><li>May 25, 2018 Deadline for direct billing application</li><li>July 1, 2018 Submit final program to the Hyatt</li></ul>							

LinkedIn Aquatic Plant Management Society Group  
John D. Madsen, Moderator  
Report to BOD, APMS, January 2018

1. The APMS LinkedIn group was formed on February 24, 2011; so the group has been in existence for approximately 7 years. The group currently has 1,286 members, up from 1,274 at the summer annual board meeting; an increase of 1% in the past six months.
2. The vast majority of new members are international, not members of the society, and very interested in how aquatic plant species can be managed. Given that so many individuals now look to social media for answers to questions, this group can provide a valuable outlet for our message.
3. I have been using the site to repeat announcements regarding annual meetings for the national society and the regional societies, as well as to engage the members on discussion of issues.
4. Entities with job announcements can announce jobs on the site for free as a “job discussion,” as well as discuss promotions or company information.
5. Generally, I only impose my role as moderator if individuals are engaging in personal attacks, or persist in telling outright untruths. In the history of the group, I have only banned two individuals, which is surprising since there need be only one vote (mine) to vote them “off the island.”

APMS Nominating Committee Report  
December 8, 2017  
John Madsen, Chair

Committee: John Madsen (Chair), Todd Olson, Gray Turnage, Ryan Thum, Rob Richardson.

The nominations committee held a conference call on November 28, 2017 to develop a prioritized list of candidates for Vice President and two Directors positions. Once the prioritized list was developed, the chair contacted those persons in order to fill the position, keeping the committee informed if a nominee declined.

The list of willing candidates was then emailed to the committee, who approved the slate of candidates.

Therefore, the Nomination Committee recommends the following candidates for nomination to the Board of the Aquatic Plant Management Society for election at the annual business meeting in July 2018:

Ryan Wersal, Vice President

Marc Bellaud, Director

Amy Ferriter, Director

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

Dr. Wersal is currently the Aquatic Plant Scientist at Lonza in Alpharetta, GA. In his current role, he coordinates the interaction between the surface water business unit and research and technology personnel. Dr. Wersal oversees the research and development projects with respect to aquatic herbicides and algaecides. He conducts basic research under both controlled and field conditions to support current products, verify efficacy of new products, and to develop the most effective use pattern for Lonza's herbicides and algaecides. Dr. Wersal has a Bachelor of Science degree in Biology from Minnesota State University, Mankato, MN; a Master of Science degree in Biology from Minnesota State University, Mankato, MN; and a Doctor of Philosophy degree in Weed Science from Mississippi State University, Starkville, MS. Dr. Wersal has been working on aquatic plant issues for over 13 years.

Prior to Lonza, Dr. Wersal was a Post-Doctoral Researcher from 2011 to 2012, Research Associate III from 2010 to 2011, Research Associate II from 2007 to 2010, and Research Associate I from 2004 to 2007 during his time at the Geosystems Research Institute, Mississippi State University, Starkville, MS.

A member since 2004, Dr. Wersal has been active in the Aquatic Plant Management Society. He was the student representative to the Board of Directors (2006 to 2007), serves on the Publication Committee (2006 to present), served on the Student Affairs Committee (2007 to 2009), Chair of the Website Committee (2010 to 2014), served on the Education and Outreach Committee (2011 to 2017), serves on the Awards Committee (2014 to present), Director on the Board of Directors (2014 to 2017), serves on the Finance and Scholastic Endowment Committee (2017 to present), and served on the Proposal Review Committee (2017 to 2018).

Dr. Wersal has also served on the Board of Directors for the MidSouth Aquatic Plant Management Society where he served as Editor and Chair of the Editorial Committee (2007 to 2014), serves on the Editorial Committee (2007 to present), Chair of the Website Committee (2008 to 2014), serves on the Scholarship Committee (2013 to present), Chair of the Program Committee (2015 to 2016), President-Elect (2015 to 2016), President (2016 to 2017), and Past-President (2017 to 2018). He has also been a member of the Western Aquatic Plant Management Society, Texas Aquatic Plant Management Society, Northeast Aquatic Plant Management Society, and MidWest Aquatic Plant Management Society. Dr. Wersal served on the Student Affairs Committee for the Midwest APMS (2013 to 2016).

He currently serves on the Weed Science Society of America's Website Committee (2011 to present), serves on the Invasive Plant Science and Management Editorial Committee (2014 to present), served on the Public Awareness Committee (2012 to 2015), and was an invited member of the ad hoc Strategic Planning Committee (2014 to 2015). Dr. Wersal was a Board of Representative Member for the Council for Agricultural Science and Technology (CAST) (2011 to 2014), Vice-Chair of the Plant, Agricultural and Environment Working Group (2013), and Chair of the Plant, Agricultural and Environment Working Group (2014). He is Associate Editor for the Journal of Aquatic Plant Management (2010 to present) and Invasive Plant Science and Management (2014 to present); and serves on the Editorial Board of Directors for the Journal of Freshwater Ecology (2011 to present).

Director - Marc Bellaud

Marc Bellaud, President of SOLitude Lake Management, has 25 years of experience in the aquatics industry. Marc's work has primarily focused on applied aquatic invasive species control programs and related lake management issues. He has authored dozens of lake management plans and feasibility studies and has designed and implemented integrated aquatic plant management programs for lakes and ponds throughout the Northeast.

Marc is a Past-President and Director of the Northeast Aquatic Plant Management Society (NEAPMS) and has been involved with the organization since it was initially founded. Marc served as a Director of the New York State Aquatic Managers Association (NYSAMA). He is also actively involved with several State organizations focused on lake management issues. He was a contributing author and co-editor for the Third Edition of the BMP Manual produced by the Aquatic Ecosystem Research Foundation (AERF) and is a regular presenter and speaker at numerous industry conferences.

Marc enjoys spending time with his wife, two sons and the family dog. He has always loved to ski, fish, play ice hockey and do just about anything outdoors, but these days most of his free time is dedicated to chauffeuring his boys to their numerous sporting events. Marc is a youth hockey coach and he volunteers with his local Boy Scout troop.



## Amy Ferriter - Director

Amy Ferriter is an environmental professional with more than 25 years of experience in the invasive species management field. She managed highly-successful invasive species programs for the South Florida Water Management District (1992-2005) and the Idaho State Department of Agriculture (2006-2013). As Idaho's Invasive Species Coordinator, she worked to launch a progressive and comprehensive invasive species prevention program, which now serves as a model for other western state programs. Amy is currently a Territory Manager (2013-present) for Crop Production Services in the Inland Northwest where she works on a variety of aquatic plant management issues. Her bachelor's degree (Biogeography) and master's degree (Geographic Information Systems and Remote Sensing) were both earned at Florida Atlantic University (Boca Raton, FL). Amy's graduate work focused on documenting the explosive spread of *Melaleuca quinquenervia* in South Florida in the early 1990s. She is now pursuing a PhD in Public Policy and Administration at Boise State University (Boise, ID), where her work centers on U.S./Cuba policy related to invasive species. Amy has published over 17 papers in academic journals, co-authored 6 book chapters and has produced more than 100 reports for state, federal and international governments. She has provided consultation, policy analysis and briefings to state legislatures, provincial leaders and U.S. Congress. Amy has served on the Board of Directors for several state and national organizations and was the Founding Editor of *Wildland Weeds* magazine (1997). She is the current President of the Western Aquatic Plant Management Society (WAPMS).

Amy.Ferriter@cpsagu.com, (509) 993-7490.

## Program Committee

Chair Craig Aguillard has met with several people with the Corp of Engineers about possible interaction from the Corp District in Buffalo NY. I would like to have Senator Schumer or a representative from Senator Chuck Schumer's office to speak as a possible Keynote speaker. Senator Schumer is an integral part to securing funding for the Corp of Engineers so I think it would be appropriate to have him speak. My goal for the first half day is to have several people speak on how the Corp of Engineers interacts with the management of Aquatic Plants and Algae across the country. The intent is not to present data but to discuss their responsibilities as I think many people may not be aware of their importance in our industry. Hopefully I will have several people speak from the Corp Of Engineers that are doing work in that area.

Proposal Review Committee Report  
Aquatic Plant Management Society, MidWinter Board Meeting, January 2018

Committee: John Madsen (Chair), Craig Aguillard, Jeff Schardt, Jeremy Slade, and Ryan Wersal

1. The Proposal Review committee had three proposals referred to them under the new guidelines for proposal review. All proposals without a committee designation are sent to the Proposal Review committee for consideration. These three proposals were:

a. A request from the BASS Representative to cost-share a \$3,000 BASS Conservation Grant (i.e., provide \$1,500) with AERF as the other partner for 2017. APMS has provided this report for several years in the past, and it provides APMS and AERF an opportunity to participate with BASS at their Bassmaster's Classic. That would total \$1,500 from APMS.

b. A request from University of Florida Invasive Plant Education Initiative to support Plant Camp. In the past, we have supported Plant Camp at the \$1,000 level. While this proposal could have (and should have) been referred to the Education and Outreach Committee, we accepted this proposal for review.

c. A request from the BASS Representative to support the BASS Conservation Summit luncheon at the Bassmaster's Classic at a cost of \$1,500 (co-sponsored with AERF). APMS has supported this in the past.

2. Our committee reviewed these two requests, and recommend the following:

a. We present a recommendation to the APMS board that the APMS continue to co-sponsor the BASS Conservation Grant at the \$1,500 level for 2017. The committee was unanimous in our support.

Rationale: The BASS Conservation Grant provides an opportunity for APMS and AERF to partner with a large stakeholder group, namely bass anglers, to promote appropriate aquatic plant management activities and support good fisheries habitat. In the past, some bass anglers have been fierce opponents of some aquatic plant management activities. Our support provides an ongoing opportunity for dialogue.

**Motion:** "APMS will co-sponsor the BASS Conservation Grant for 2017 at the \$1,500 level per year, for a total of \$1,500."

b. We present a recommendation to the APMS board that the APMS continue to support the University of Florida Plant Camp at the \$1,000 level.

Rationale: Plant Camp provides a significant opportunity to train teachers concerning invasive aquatic plants and aquatic plant management. While we recognize that the State of Florida is the predominant beneficiary of this program, Plant Camp has opened a few seats for teachers from

other states to provide an opportunity to start similar programs elsewhere. If other entities or universities initiate similar programs, we can consider separately if they merit support.

**Motion:** “APMS will sponsor University of Florida Plant Camp at the \$1,000 for 2018.”

c. We present a recommendation to the APMS board that the APMS co-sponsor the BASS Conservation Summit luncheon at the Bassmaster’s Classic at the \$1,500. APMS and AERF will work together to select an appropriate speaker for that luncheon, as appropriate.

Rationale: This is an opportunity for APMS and Aquatic Plant Management to again be in front of the bass angling community, and speak directly to state conservation directors within the BASS organization. This is an opportunity to continue to change the perception of aquatic plant management in this important stakeholder group.

**Motion:** “APMS will co-sponsor the BASS Conservation Summit Luncheon for \$1,500 at the Bassmaster’s Classic in 2018.”

Hello Regional APM Chapters

My name is Jay Ferrell, editor of the *Journal of Aquatic Plant Management*, and we have an exciting new project.

When you look at the researchers in this field, many of them have in excess of 30 (sometimes 40 years) of experience in aquatic plant management. Unfortunately, many of our most seasoned researchers will be retiring within the next 5 years. In order to capture their experience we have initiated a new publication titled *Research Methods in Aquatic Plant Management*. The purpose of this publication is to serve as a reference so that new researchers do not have to start from scratch when they begin to work with aquatic plants. This publication will contain 15 chapters (see next page) and handle topics as basic as how to grow healthy plants to as complex as how to treat areas with high water-flow/exchange. We believe this publication will benefit our entire industry and serve as a standard for the next 30 years.

Our intention is to print this publication in Fall 2017 and ship it with the January 2018 issue of JAPM. As a service to our membership, all members will receive a copy free of charge. Additional copies will also be printed for sale.

Since this is a new project, we expect the cost of setup, printing, and shipping to be significant (likely in excess of \$30,000). Therefore, APMS would like to ask our regional partners if you would be willing to help offset this cost. Our request is \$2000 per chapter, or whatever your Board of Directors thinks is appropriate. Your support will be greatly appreciated and acknowledged in the forward of this publication.

We believe this publication to be important and we hope you agree. By working together, this project will help new researchers get off to better start by using the best time-proven techniques.

Thank you for your time and support.

Jason Ferrell  
Editor, JAPM

## Research Methods in Aquatic Plant Management

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

Deborah Hofstra via nz.smxemail.com  
Sep 5

to John, me, Paul, Tony.Dugdale

Dear John

The potential for an Australian/NZ Chapter was initially discussed in 2015, and the regional chapter committee of APMS endorsed the idea in July 2015.

The level of interest in an Aus/NZ Chapter was discussed at aquatic and biosecurity conferences in both countries during 2015-2016 (Paul Champion (NZ), Tony Dugdale (Australia)). The value of a chapter was recognised by those approached, alongside some concern around our ability to attract members outside of government research organisations, and the challenges of trans-Tasman travel. Although trans-Tasman travel is no more costly than national travel, it is international and therefore funding is more difficult for people in most government agencies to obtain.

In August 2017 at the annual conference of the Biosecurity Institute (NZBI) (Wellington, NZ), Paul Champion led a discussion group on the proposed chapter. The NZBI conference provided the perfect forum for promoting the potential chapter within NZ because national and regional government agencies, researchers and industry were represented. Although there was significant interest in APMS, the decision was taken not to form a chapter. The decision was based primarily on the current logistical issues of trans-Tasman travel.

At this time, it is considered that there is greater benefit for interested people to join APMS directly.

Regards  
Deborah

Chair: Mark Heilman

There has been minimal activity in these areas since the July meeting due a combination of factors. However, activity should pick up in the first two quarters of 2018.

The goals of the Membership committee and the related strategic goal are logically linked and committee activities will be focused on strategic objectives. Per the July-approved plan, these are below along with discrete actions planned before March 30, 2018. An interim end Q1 update from these efforts will be provided to the Board followed by another update at the pre-conference Board meeting

**1. Connect with regional chapters to compare membership lists and identify potential new members at both the regional and national levels.**

Actions: the comparative exercise by Karen Brown/Dave Petty noted in the Secretary's report is a nice first step in this direction. We appear to have the most overlap with FAPMS and MAPMS and the least with NEAPMS. The committee needs to confirm the best ongoing liaison with each regional chapter to a) secure membership rolls for those chapters and b) compare these rolls at least annually to 'cross-fertilize' the Societies with joint members as much as possible. We need to more clearly document why each regional chapter's members chose not to be part of national, find remedies to make national chapter more attractive, and then individually and personally invite regional members to join the national.

- Seek an APMS member for each regional chapter to be point of contact on membership campaign efforts with each regional chapter (joint membership committee involvement)
- Compare member rolls by March 30 (see Karen Brown on her exercise) and suggest regional member list to contact
- Have proposed communication strategy to regional members described to Board in update on March 30

**2. Update the membership brochure to highlight APMS membership benefits for regional chapter members and members of related professional societies.**

Action: Seek volunteer(s) to lead this effort (cross over with other goals) and discuss overall process with the Board. This updated brochure will be useful for new member outreach.

**3. Offer regional members a dues discount for membership in APMS.**

Action: Discuss with Board for implementation timetable and approach

**4. Develop a plan for offering CEUs for workshops delivered at the conference or online.**



Action: Develop strategy for Buffalo meeting with Program Committee and NEAPMS contact (Greg Bugbee does NE CEU coordination). Use that process as impetus for defining procedures for future national conferences.

**5. Continue presentations at regional meetings by the APMS president or his/her designee.**

Action: Recommend that the APMS President have specific discussions with current regional chapter president and regional chapter program committees in advance of conference to be able to tie comments more closely to regional member interests.

**6. Encourage members of related societies (e.g., NALMS) to become active member of APMS**

Action: NALMS is currently having some crisis in finances and is experiencing a retirement wave similar to our chapter. There is merit to having a specific discussion with NALMS leadership about future interactions, especially as our Society seeks more engagement with HAB management. Suggest potential outreach to NALMS with request to have APMS presentation and discussion at one of its future Board meetings and extend the same invitation to NALMS. Also, NALMS membership list should be secured if possible and member roll examined for potential invitations to join our Society. Heilman can contact NALMS Secretary Amy Smagula for activity in both areas.

**7. Establish one or more positions on standing committees or the board for representatives from the Women of Aquatics organization.**

Action: Review latest information from WOA and discuss with Board how to best continue interactions.

**\*\*Overall comments on Strategic Planning Status\*\***

We have initial concepts submitted to Board for Goals 2 and 4 here for this meeting along with Goal #3 concepts above. The SP Committee will increase coordination between now and July meetings in Buffalo to take concrete steps forward in all areas.

# **Aquatic Plant Management Society (APMS)**

## **2017-2021 Strategic Plan<sup>1</sup>**

### **Vision**

*The vision of APMS is to be the leading international organization for scientific information on aquatic plant and algae management.*

### **Mission**

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

### **Strategic Goals**

**Goal 1: Develop and adhere to a comprehensive financial management plan that aligns with the APMS mission.**

*Key Outcome: APMS will have the financial resources to support and sustain ongoing programs and new initiatives for advancing the society.*

### **Action Steps:**

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

### **Measures of Success:**

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

### **Leadership Team:**

Team Co-Leaders – Jeff Schardt and Jeremy Slade

### **Feedback Loop:**

The leadership team will provide a written implementation progress report at the 2018 mid-year board meeting and the annual conference. Implementation concerns, needs, and challenges will be included in these reports. The financial management plan should be completed and in action by no later than the July 2018 annual meeting.

---

<sup>1</sup>Approved by the APMS Board of Directors on May 17, 2017

Budget Needed:

To be determined and voted upon by the Board of Directors

**Goal 2: Design and implement a broad marketing and outreach plan.**

*Key Outcome: APMS and its programs and impacts will be valued and well known by scientists, agency leaders, policymakers, applicators, and the general public.*

Action Steps:

1. Form a five-member ad hoc committee charged with developing and overseeing implementation of the marketing plan.
2. Develop a Request for Proposals for developing the marketing plan.
3. Consider the feasibility of hiring a professional firm that offers a cost-effective approach for outreach.
4. 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.
5. Define and promote the APMS brand and its features and benefits. Consider developing a video to post on YouTube.
6. Develop two annual issue case studies or review papers that highlight the APMS brand. Provide an honorarium for the selected authors.
7. Design and implement a social media campaign. Consider appointing a paid social media leader under the Education and Outreach Committee.
8. Post highlights of every journal article on social media.

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

Leadership Team:

To be determined

Feedback Loop:

The leadership team will provide a written implementation progress report at the 2018 mid-year board meeting and the annual conference. Implementation concerns, needs, and challenges will be included in these reports. The marketing and outreach plan should be completed and in action by no later than the July 2018 annual conference.

Budget Needed:

To be determined and voted upon by the Board of Directors

**Goal 3: Increase APMS membership and annual meeting participation.**

*APMS will be a vibrant organization for the exchange of information on aquatic plant and algae management with a membership that includes a high percentage of students, researchers, policymakers, and practitioners in the field.*

**Action Steps:**

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

**Measures of Success by 2021:**

- 20 new members who have not been regional chapter members (Alternate Language: A net increase of 10 new members annually who have not been regional chapter members)
- 50 new members who have previously been only regional chapter members (Alternate Language aligned with point above: A net increase of 10 new members annually who have previously been only regional chapter members.
- 15% growth in female membership
- 15% increase in conference attendance

**Leadership Team:**

Mark Heilman, John Madsen, Chris Mudge

**Feedback Loop:**

The leadership team will provide a written implementation progress report at the 2018 mid-year board meeting and the annual conference. Implementation concerns, needs, and challenges will be included in these reports.

**Budget Needed:**

To be determined and voted upon by the Board of Directors

**Goal 4: Enhance the society's sustainability by sponsoring student initiatives and stimulating increased job opportunities in the field.**

*Key Outcome: The flow of young scientists into the field of aquatic plant and algae management will be increased as evidenced by more student members and enhanced placement in relevant employment in the discipline.*

**Action Steps:**

1. Identify post-graduate opportunities.
2. Identify internships and incentives for undergraduate students.
3. Develop links between students and employers.
4. Utilize social media and the membership directory.
5. Contact faculty members who may have students interested in becoming APMS members.
6. Increase awareness of APMS in universities.
7. Contact fisheries and natural resource departments to identify potential student members.
8. Provide travel grants for undergraduate students to attend the annual meeting.

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

Leadership Team:

Brett Hartis, Ryan Thum, Sam Sardes

Feedback Loop:

The leadership team will provide a written implementation progress report at the 2018 mid-year board meeting and the annual conference. Implementation concerns, needs, and challenges will be included in these reports.

Budget Needed:

To be determined and voted upon by the Board of Directors

## Marketing and Outreach ad hoc committee report:

Aquatic Plant Management Society (APMS), 2017-2021 Strategic Plan

Goal 2: Design and implement a broad marketing and outreach plan.

*Key Outcome: APMS and its programs and impacts will be valued and well known by scientists, agency leaders, policymakers, applicators, and the general public.*

The committee was formed and met on October 18, 2017 in Orlando. The committee members are: Todd Olson, Karen Brown, Amy Kay, Jay Ferrell, Harry Knight and Andrew Howell. We submit the progress report; We are waiting for a proposal from a marketing firm that understands our industry and should have it available by the 2018 mid-year board meeting.

The committee discussed defining 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. We are also considering holding a student video contest similar to NALMS to post on YouTube.

Karen Brown worked with Dave Petty to find the cross matches between APMS and regional chapters.

Society	Members*	Shared	Percentage
APMS	294		
AERF	85	43	14.6%
FAPMS	467	61	20.7%
MAPMS	233	57	19.4%
MSAPMS	86	26	8.8%
NEAPMS	179	36	12.2%
SCAPMS	154	71	24.1%
TAPMS	147	21	7.1%
WAPMS	98	28	9.5%

The committee decided to develop two annual issue case studies or review papers that highlight the APMS brand. Provide an honorarium for the selected authors.

- Partner with AERF to publish white papers
- Partner with Universities to help with writing white papers.
- Dr. Ferrell to pick a couple articles per year for press release (listserv, etc...)

Design and implement a social media campaign. Consider appointing a paid social media leader under the Education and Outreach Committee.

- Provide content for Linked In moderator
- Consider APMS Facebook page.
- Task the APMS graduate student rep. to solicit content and help coordinate social media

Post highlights of every journal article on social media.

- Consider adding social media stream to the APMS website

Respectfully submitted,  
Todd J. Olson

## **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 has identified that many students who have actively worked within University are having difficulty finding directly related work in the field post-graduation. In many cases, students may secure jobs (short and long term) which are loosely related to aquatic plant science, but often not directly tied. This is most likely due to the "niche" nature of the science in general. The team has begun individually looking at any internships and post graduate opportunities for active experience in the field. Few short-term opportunities have been identified which will be discussed at the Board meeting.

The team has also begun contacting faculty from related disciplines (fisheries, natural resources, crop science) to gauge interest in presenting/ attending at APMS functions. Largely those with which the team has talked have expressed interest; however concern was raised over the "fit" with a society focused on management. This was especially true of those without an established "aquatic plant management" program or lab. Faculty was also unaware that algae were a focus of the Society and many were unaware of the Society and its mission at all. Many questioned whether the Society would be open to research outside of direct management (i.e. ecology, interaction, etc) which may fit more closely with their students. Faculty was also interested in undergraduate student involvement yet needed more clarification on how broadly the society would consider research that doesn't involve management directly.

The team recognizes that social media is a valuable tool in reaching students, especially Facebook, Instagram, etc. While these tools are useful, they take a great deal of time and need to be continually monitored, updated, and used in order to stay relevant. The team believes that if the Society wishes to use social media to become more visible, then a paid position may be needed to continue to add content and information. There are several outlets currently being used by members of the Society (LinkedIn, newsletters, emails, etc) to announce opportunities; however those are rarely coordinated or cross posted outside of the membership.

**Future Goals:** Now that the team has spoken with students and their faculty mentors, the team plans to begin finding a link between potential employers within the field. Many jobs within the field are a part of the private sector (herbicide companies, distributors, etc) however some potential exists within the public sectors as well (Federal and State Agencies). The team plans to begin identifying potential employers within the science and making them aware of our goals to bring more students into the Society AND keeping those students involved beyond graduation. The team plans to discuss partnership development between employers and the Society to develop internships and short-term job experience which may translate to long-term retention.

Lastly, the team would like to begin working with the Student Affairs Committee to find out more about the students who are currently participating in APMS. The team would like to discuss in what ways beyond the annual meeting that the Society can support job placement and long-term retention.



## **APMS STUDENT AFFAIRS COMMITTEE REPORT**

**Date:** 3 January 2018

**Committee:** Christopher Mudge (Chair)

Andrew Howell (Student Rep)

Ben Willis

Leif Willey

Brett Bultemeier

Syndell Parks

As chair of the Aquatic Plant Management Society Student Affairs Committee, I have received positive feedback from the students and delegates regarding the student luncheon, tour, and other conference activities. Overall, the cost reducing changes that were implemented into the 2017 conference at Daytona, FL, were well received by the student participants. Below are recommendations for each of the conference events scheduled for Buffalo, NY.

### **SUGGESTED CHANGES**

**Meet & Greet:** The Student Affairs Committee's recommendation is to re-introduce the gathering for the student meet & greet and hold the event during the President's Reception on Sunday evening. There will be no added costs for the society since the reception currently holds an open bar during the President's reception. All students will still have an opportunity to socialize during the 2 hour reception at no added cost. The students requested the committee and society bring this event back to allow first time attendees an opportunity to meet new people from other universities.

**Paper and Poster Contests:** During and after the 2016 and 2017 conferences, I received concern from several delegates (student and non-student) about the same students winning the paper and poster contests on an annual basis. In particular, the students felt that they should not participate in future contests if the same person was winning continuously and not rotating out of the event. Suggested changes include: 1) once you win a contest (poster or paper), you must take a year off before participating in the contest again, 2) split the paper contest (and poster if we have enough participants) into M.S. and Ph.D. categories since the skill level/experience can vary between degree programs, or 3) limit your participation to 1 time per degree. For example: the Southern Weed Science Society does not allow you to participate in the contest after you have won it according to their MOP, but you can participate annually until you win.

Prior to the poster session, require each student presenter to give a 2 minute summary of their research to increase delegate awareness of their research and encourage more interaction between other delegates and the presenters. This would take 6 to 10 minutes to complete.

**Job Placement:** Create a binder for students graduating in the near future and place at the registration desk. The student could place several copies of their CV for prospective employers to know who is graduating and when they are completing their degrees.

## **NO CHANGES**

**Luncheon:** The Student Affairs Committee requests the society to continue hosting the student luncheon on Monday of the conference. Similar to last year's conference, the committee will invite 3 speakers from various universities, state/federal agencies, or private organizations to discuss their careers, experiences, and other related topics. It was suggested by the students to invite more female professionals to speak to the group, which will be sought by the committee.

**Tour:** The Student Affairs Committee's recommendation is to continue hosting the 1 day post-conference student tour that starts and concludes on the Thursday after the conference. This past year, APMS covered the cost for an additional 9 rooms (9 students) for Wednesday and Thursday evenings. Also, during the 1 day tour, 1 van was rented by APMS and the Florida Fish and Wildlife Conservation Commission provided boats at no charge to the society. Jeff Schardt and Tommy Bowen served as drivers and chaperones. This year, the committee will reach out Federal, State, or local groups to assist with the tour. Lake Cayuga or other weed infested site will be considered for the student tour.

“Student Tour at Lake Tohopekaliga”

26 July 2017

Ed, Jeff, Dean, and Tommy,

As student participants of this year’s APMS student tour, we would like to personally thank you gentlemen for the effort you put forth to ensure we had an awesome student outing. We can only imagine the amount of planning and hassle it takes to provide us with a day full of student touring and experiences. You all have a plethora of information, and we recognize that you have more field experience than many of us combined which created an engaging learning opportunity. Provoking us to critically think, and challenging our knowledge of aquatic plants was something we do not always get the chance to deal with on a daily basis. By explaining the management aspects of Lake Toho, we could see parallels to lakes we have previously worked with, and even new tactics to how we may transfer the strategies at Toho to our home-state lakes. We enjoyed hearing about the challenges faced with aquatic vegetation management on Lake Toho, as well as the confounding factors of aquatic plant management on the waterbody. Often times we focus so much on research we forget the outside driving factors involved in lake management... *money, politics, stakeholder involvement, etc.* Thanks for reminding us of this!

Many thanks for lunch at Sonny’s BBQ and the conversations which followed. Also, for those who could attend, dinner at Joe’s was a blast as we capped off the end of a successful day! At dinner, there was a unanimous consensus that this year’s tour could not have been improved—so again, hats off to you gentlemen. Plus, I think for some of us it was our first time on an airboat, so new experiences and memories all around!

We all gleaned something new from this year’s excursion thanks to each of your involvements. For those of us not graduating this year, we hope to see you again at next year’s APMS conference in Buffalo, NY.

Again, thanks for sharing your time, knowledge, and providing the awesome excursion!

Sincerely,

*2017 Student Tour Participants*

Jens Beets (*University of Florida*)  
Allie Cozad (*Louisiana State University*)  
Kara Foley (*North Carolina State University*)  
Paula Guastello (*Montana State University*)  
Erika Haug (*North Carolina State University*)  
Andrew Howell (*North Carolina State University*)  
Eryn Molloy (*North Carolina State University*)  
Mirella Ortiz (*Colorado State University*)  
Alejandro J. Reyes (*North Carolina State University*)

Hello APMS Board and Committee Chairs:

We have been making a few updates to the APMS website. Some of the bigger changes are summarized below:

1 - Contact info for officers, directors, and chairs has been replaced with a Contact Us function. This was done in response to minimize outside phishing efforts.

2 - The Awards page is updated – under Society / Awards.

3 - There is a Graduate Student Research Grant page under Society / at the bottom of the list after Awards. All of the GSRG's are also posted.

Most of the changes are under Members Only – this is an area that only APMS Members can access. Remember, your Username is your email address and you create your own Password. There were a lot of duplicate postings under Members Only and Documents and Archives. I asked APEX to delete the duplicates and rearrange the rest of the info, and added a few new postings.

4 - The most recent revisions of the Bylaws, Operating Manual, and up to date Minutes from 2009-2017 are posted under Members Only / Documents. The 2017-2021 Strategic Plan is now posted here as well.

At the bottom of the Members Only / Documents tab is Documents and Archives. This area is only accessible to APMS Members who must enter the Password duckweed. Postings here include:

5 - Original Bylaws and Articles of Incorporation along with recent Bylaws revisions and previous APMS Strategic Plans.

6 - The updated, editable APMS PowerPoint presentation.

7 - APMS Business Motions from 2009-2017. This is a chronological summary of Motions from the last 9 years of APMS Board and Annual Business Meetings. Motions that commit APMS funds are highlighted in yellow to give Board Members a quick reference of recent APMS expenditures.

8 - The 7-16-17 Board Book is posted here as well. In future months, I will start posting Board Books that were provided at the beginning of Board Meetings. They may not contain all information that was distributed during the meetings and was not included in the original Book.

**B.A.S.S. Report**  
**Submitted to APMS, Jan. 16, 2017**  
**Gerald Adrian**

**B.A.S.S. Activities:**

**BASS Conservation Award sponsored by AERF and APMS**

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

Bass Federation Nation of Virginia was selected as the recipient of the grant to support Aquatic Plant Management in 2016. The project will establish shoreline vegetation to improve fish habitat and shoreline stabilization on Claytor Lake, Leesville Lake and Smith Mountain Lake in VA. (An interim report was provided in January 2017. well as photos of the project)

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

For 2017 the New Mexico BASS Nation has been awarded the Aquatic Plant Management Conservation grant for \$2000. Their project involves establishing shoreline vegetation on Elephant Butte Reservoir. Our grant is only a portion of the funds being raised by the New Mexico Bass Nation and the project has already been initiated. Please see the attached files outlining the project.

I am requesting that the APMS (and AERF) provide funding of \$3000 (\$1500 each) (AERF and APMS) to support the BASS banquet during the 2018 Classic in Greenville, SC (L. Hartwell), March 16-18, This banquet by the BASS State Conservation Directors as well as State Fisheries Chiefs. APMS/AERF will provide a speaker during the Conservation Summit. At this time I suggest Brett Hartis, who made a presentation at the 2016 Conservation Summit make this presentation (provided he is willing). I will discuss the Conservation Grant with Gene, however at this time I am not requesting funding for this again.

I would ask that APMS and AERF consider another proposal from Brett Hartis (TVA) and Gray Turnage (MSU) to expand the educational module to BASS High School and College Tournament Team coaches. This would be done primarily in TN. We have a proposal, but have requested some changes that would emphasize aquatic weed control instead of lake ecology/fisheries. We are not sure of the cost to APMS and AERF as TVA has stated that they have some funds available also, so we need to determine TVA's participation. This project may be initiated in late 2018, or early 2019. Brett Hartis will provide the proposal to the BoD when this report is given.

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

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

<https://www.tva.gov/Environment/Environmental-Stewardship/Anglers-Aquatic-Plant-ID> This effort is aimed at

anglers, primarily in the region around the TVA lakes. Although this is an independent site and is a work in progress, it is a resource for anglers.

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

#### Elephant Butte Willows Project, New Mexico BASS Nation

This project is a new component of a five-year project to improve fish habitat and restore native vegetation at [Elephant Butte Reservoir](#) in New Mexico. The lake is an irrigation reservoir and the most visited state park with over 250,000 annual visitors. The lake level drops about 30 feet between June and August for irrigation and municipal water releases, exposing approximately 114,000 acres of barren shoreline, mainly on the west side of the lake where campers and vehicles are allowed. The vegetation plans for the lake include several innovative methods to introduce native seeds and seedlings to the moist shoreline as it recedes. This project is to pursue one particular species of interest, the Gooding willow (*Salix Goodingii*). During field exploration and observation, the Ruidoso High School science class confirmed that the Gooding willow is able to survive being submerged for several months in water as deep as 20 feet. One plant was estimated to be over four years old and has survived three extended submersions, beavers and propeller damage. Other isolated younger plants were observed in several coves. It is believed that restoration of these native plants would eventually create dense stands that would provide shoreline habitat during the summer and fall and fish habitat during the winter and spring. If successful, it is likely that Federal grants could be obtained for additional plantings where habitat for the endangered Southwestern Willow Flycatcher is desired.



Old willow



New willow growth



Ruidoso High School seeding day

Further evaluation found that the Gooding willow was able to compete with invasive tamarisk in the far north reaches of the lake where it provides critical habitat for the endangered southwestern willow flycatcher.

Up to \$2000 is requested to launch the project, but any amount would be used immediately to purchase seedlings and collect pole cuttings before May, 2017 in selected coves and to establish 2 or more floating nursery willow islands for future pole cuttings. The Albuquerque Hawk Hunters bass club and several youth organizations including the Mesilla Valley (B.A.S.S.) high school angling club have been experimenting with native plant restoration at Elephant Butte and will be involved in every stage of the project. New Mexico State University AFS student chapter, Ruidoso High School, and Hot Springs (TorC) High School are all engaged in the project with a special focus on innovative planting techniques to create seed colonies. Field observation and monitoring will continue as

part of the five-year permitted project. The youth adult tournament anglers are very aware of the project. They regularly report on the current state of habitat improvements and often suggest improvements.

All of the funds will be used to purchase, transport and plant seedlings, deep pot plants and pole cuttings from the New Mexico Forestry seedling program, NRCS Plant Materials Center or local pole cutting areas. Matching in-kind donations and volunteer labor have and will continue to exceed all grant values. Over 50 volunteer days were logged during 2016 as well as donated time and boats from the marina operator and New Mexico Game and Fish. Local businesses have agreed to help with seedling distribution including the local kayak rental shop.

The Bureau of Reclamation permitted the project and letters of support were received from New Mexico Game and Fish, New Mexico State Parks and the Los Lunas Natural Resource Conservation Service ([NRCS](#)). Permit and letters of support are available upon request. Additional information and photos are also available. The project can also be followed on facebook at [Elephant Butte Adapt-a-Cove](#).

For more information, contact Earl Conway, NM BASS Nation president and conservation director.

(505) 610-5156, email: [President@nmgbfn.com](mailto:President@nmgbfn.com) or [way2busy2fish@aol.com](mailto:way2busy2fish@aol.com)

Maps and pictures: Appendix to Elephant Butte Willows Project



Four trial sediment delta areas (A-D) are proposed for willow planting



Dense stands of Gooding willows are established north of the project area

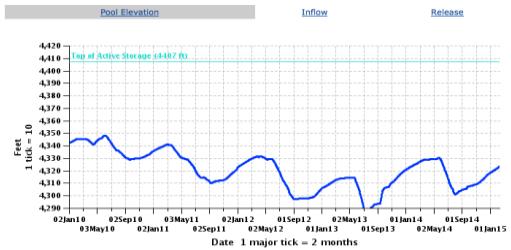


Gooding willows are a key plant for the endangered Southwest Willow Flycatcher



The Albuquerque Hawg Hunters have extensive experience and success establishing floating island plant colonies.

Elephant Butte Reservoir



Water releases in June create a wet receding shoreline when new willows can be established. But the plants have to be able to withstand submersion for several months in the winter.



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

**B.A.S.S. Activities:**

**BASS Conservation Award sponsored by AERF and APMS**

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

Bass Federation Nation of Virginia was selected as the recipient of the grant to support Aquatic Plant Management. The project will establish shoreline vegetation to improve fish habitat and shoreline stabilization on Claytor Lake, Leesville Lake and Smith Mountain Lake in VA. (Please see the attachment)

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

**I propose we continue with this project at the same level of funding as in 2016 (appx \$3000 for each organization). The Grants will be announced in October by BASS Conservation Director, Gene Gilliland and announced during the Bassmaster Classic in Houston, March 24-26. NOTE: The anglers qualifying for the "Classic" will be fishing the contentious Lake Conroe, which was stocked with high numbers of grass carp less than 10 years ago.**

Gene Gilliland made a presentation during the APMS meeting in Chaleston this past summer. His topic is "Getting B.A.S.S. Members Involved in the Equation".

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

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

**Issues:** BASS has weighed in on the proposed hydrilla management plan for Strom Thurmond Reservoir (US Army Corps). The plan calls for stocking of grass carp and some use of herbicides. I've attached a piece by Robert Montgomery.

Although other issues exist, most are a result of the lack of involvement of anglers in the planning process especially where larger scale herbicide treatments are involved. In most cases, explaining the need for control of aquatic weeds satisfies bass anglers, especially if there is some science

behind the decisions (an in most treatments this is the case). Unfortunately there are a few anglers that refuse to accept the need for treatments. In cases where you feel B.A.S.S., APMS or AERF can be of assistance please don't hesitate to call me.

## Virginia B.A.S.S. Federation Nation Grant Application

### **AERF-APMS Submission for award for the best aquatic plant management project**

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

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

- Native aquatic vegetation is lacking in Claytor Lake as a result of normal reservoir operations, environmental conditions and grass carp introductions. Juvenile fish are dependent on vegetation as nursery habitat. Lack of emergent shoreline vegetation has resulted in erosion and siltation issues as well. Restoration efforts will require a reliable local source of a wide variety of native aquatic plant species to address the different conditions in each reservoir.
- **A letter of support from a representative of the state fish and wildlife management agency must be included in the proposal; See attached.**
  - See letter attached in support from John Copeland, Regional biologist for Virginia Department of Game and Inland Fisheries (VDGIF).
- **If available, include a copy of or link to a lake management plan that states this need (proposals which complement an existing plan for the lake will receive extra consideration).** ○ John Copeland has emphasized the need to do native aquatic plant restoration ever since hydrilla was successfully controlled in Claytor Lake. ○ <http://www.focl.org/programs/aep-relicensing/shoreline-management-plan/> (Claytor Lake) ○ Leesville Lake plan is being developed.
- **Describe the Methods being used to Address this Need: State the type and amount of habitat that the project proposes to add/restore;** ○ This project is an expansion of the pilot project that was started at Magna Vista High School in 2014 and will use existing facilities at Pulaski County high school to create nursery pools and tanks, obtain and pot propagules and culture the plants to maturity, splitting and repotting as necessary to maximize production space.
  - This will be an ongoing project that should be self sustaining after the initial start up. This can be duplicated at other interested high schools. ○ A lesson plan with a time-line for this project will be developed for this project so that it provides added value to the existing horticulture program.
- **Describe the methods used to accomplish the project;** ○ Step 1: Approval will be obtained from Pulaski County High School to set up a small native plant propagation area in their state-of-the-art greenhouse. Grant funds will be used to purchase plastic pools and quart-size pots for planting and other miscellaneous materials needed in the greenhouse. Soil that is appropriate for aquatic plants will be obtained locally. ○ Step 2. VDGIF biologist will help oversee the planting of the seed that will be harvested from plants that were propagated in 2014-2015. The greatest challenge has been finding native seed and this put the original pilot project one year behind. Native seed can only be harvested during the first two weeks in October.
  - Step 3. Select students that have been identified by the school's Horticulture Department faculty will go on a field trip with parental support to harvest the plants.
  - Step 4. Under the supervision of school Horticulture faculty and/or Joan Blankenship, MS Ed, conservation director for the Virginia B.A.S.S. Nation, the students will pot and plant the specimens in the greenhouse. Students will monitor and tend the plants, splitting into additional containers as necessary and document the progress with narrative and photographs. The progress will be posted on the B.A.S.S. Nation conservation web page monthly.
  - Step 5. A selection of mature plants will be harvested and introduced into appropriate herbivore-resistant enclosures in one of Claytor Lake reservoir. This field trip for students

will require parental support. Virginia B.A.S.S. Nation members will provide boats as necessary and the VDGIF Regional biologist will supervise the planting.

- **What are the expected outcomes?**
  - The short-term goal is to establish sufficient nursery capacity to provide plants for restoration efforts that VDGIF, Appalachian Power and other shoreline management teams can use in restoration efforts. The pilot project is still ongoing and this grant will be to expand the concept to other high schools and increase plant production capacity.
  - It will teach the high school students native aquatic plant culture techniques that may provide the basis for starting a small for-profit business enterprise.
  - This project will also introduce the students to ecological principles outside the greenhouse and to conservation practices that can help control shoreline erosion, provide fish habitat and improve water quality.
- **Partners: Provide a list of partners involved in the project; To be considered a partner, the group/company/agency has to provide either direct monetary or in-kind (supplies, equipment, labor) to the project**
  - Pulaski County High School, VA will provide facilities and students who will work in the greenhouse and on field trips.
  - Virginia Department of Game and Inland Fisheries will provide technical support, assist with locating and collecting source plants, and provide labor during reservoir planting.
  - Appalachian Power will provide technical assistance, boats and labor at field sites.
- **Budget (the budget should be presented in the table format below; you can cut and paste this table directly into your proposal and fill in as appropriate)**

Partner	Cash Contributions	In-kind Contributions (type: labor, supplies, equipment)	In-kind Contributions (cash value)
<b>AERF-APMS</b>	\$3000.00		
VA B.A.S.S Nation - Joan Blankenship, Conservation Director	\$100.00	Labor, supplies, boats and boat captains, life jackets, shovels, waders	\$1000
Appalachian Power		Labor, boats and boat captains, technical support and site selection	100 hours * \$24 = \$2,400
Pulaski County High School-		Greenhouse facilities, labor from student volunteers, teacher supervision	18 weeks * 10 hours per week * 1 teacher * \$24. = \$4,320.

Friends of Claytor Lake		Community	18 weeks * 4 hours
		supporter and mentor	per week * 1 mentor * \$18 = \$1,296.
VDGIF-John Copeland, Regional Biologist		Technical advice and evaluation of quality of plants, locating plant sources and assistance with planting	100 hours * \$24= \$2,400.  Can provide an additional boat as needed

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

**□ Outreach (Include an outreach plan) How do you propose to advertise the project (on-site signage, press releases, websites, message boards, etc.)** ○ This project will be promoted on Bassmaster.com, Friends of Claytor Lake, the B.A.S.S. Nation of Virginia conservation web page, Facebook, in news releases to local newspaper(s) and other sources as identified during the project. Photographs and video will be taken from set-up of the project to their introduction in the reservoirs.

Projects must be submitted to B.A.S.S. Conservation by January 15<sup>th</sup> 2016 to be eligible for the award.

Judging will be done by the B.A.S.S. Conservation Director, Dr. Mike Netherland (APMS) and Carlton Layne (AERF).



## Hydrilla control plan proposed for Thurmond Lake



May 18, 2016



**Robert Montgomery**

SAVANNAH, Ga. – Anglers have until noon on May 31 to comment about a controversial U.S. Army Corps of Engineers proposal to diminish hydrilla coverage at J. Strom Thurmond Lake (also known as Clarks Hill) on the Georgia/South Carolina border.

Additionally, public meetings are planned for 6 to 8 p.m. May 16 at McCormick County High School in McCormick, S.C., and 6 to 8 p.m. May 17 at Eubank Blanchard Community Center in Appling, Ga.

The intent of this strategy is to diminish the death of bald eagles, but what would eliminating hydrilla due to the sport fishery, especially the bass population?

"Protecting eagles is a big deal," said Gene Gilliland, national conservation director for B.A.S.S. "But eradication of the hydrilla, which provides valuable fish habitat, could result in long-term damage to the bass fishery and have negative impacts on the local economy."

Since 1998, a toxic blue-green algae that grows on the invasive plant is believed to be primarily responsible for the death of 81 eagles. The birds contract avian vacuolar myelinopathy (AVM) by eating coots which feed on the hydrilla.

"Aquatic vegetation management is needed at Thurmond to minimize eagle deaths linked to hydrilla and its associated toxic cyanobacteria," the Corps said.

Their preferred plan, "would reduce the acres of hydrilla in Thurmond, thereby reducing potential impacts on bald eagles from AVM. This should minimize overall adverse environmental impacts."

The Corps' choice of the four alternatives it considered includes incremental stocking of triploid grass carp and "limited herbicide application." Currently the hydrilla is managed with herbicide treatments to control the plants in public use areas around boat ramps, parks and swim beaches. Private land owners can also apply herbicides around their docks and boat houses with a Corps permit.

Although biologists do not seem to feel that the levels of hydrilla in the reservoir are excessive from a fishery standpoint, the *Augusta Chronicle* newspaper found some, including fishermen, who would like to see less hydrilla in the 70,000-acre fishery, the largest Corps impoundment east of the Mississippi River. "I don't like it," said Noel Brown, who has been fishing Thurmond for decades. "It's become so dense in many areas that bass can't move around in it. It's clogged up the shoreline, a situation you don't have in Alabama's Lake Guntersville."

But as many anglers and fishery managers know, overstocking of grass carp has decimated many quality fisheries, as the fast-growing grazers gobble up not just hydrilla but native vegetation as well.

"Eradication of the vegetation is a near certainty with the numbers of grass carp they are proposing to stock over time," Gilliland said. "At some point, the loss of habitat will likely affect bass recruitment and eventually the quality of the fishing." He added, "And attempts to re-establish significant amounts of vegetation after grass carp have been introduced in lakes or reservoirs have been largely unsuccessful."

The integrated plan calls for stocking 7.5 carp per vegetated area in the first year and 9.75 carp per vegetated acre in the second. Additionally herbicides would be applied "in areas where hydrilla is at or near the surface with priority given to those areas known to have high concentrations of American coots and past eagle mortalities."

Gilliland questions the Corps' assessment that there will be no significant impacts to recreation or the environment. "My feeling is that fishing interests may not have been fully considered in the planning process and need to be championed by anglers now, before the approvals go through," he said. "We need to get anglers to the public meetings to learn more about the issues."

And they need to send e-mails to the Corps and request a response.

"Angler comments should not just be a complaint. It is imperative that comments propose a compromise solution to manage, not eradicate the vegetation. Insist on an evaluation of the treatments and require accountability," the conservation director said. "Make sure both state fishery agencies are on board with the plan and are required to monitor the progress and document impacts on the fishery. This needs to be thought out very well because once the grass carp have been stocked, they will be there for years and years."



**B.A.S.S. Report**  
**Submitted to the APMS, July 16, 2017**  
**Gerald Adrian**

**B.A.S.S. Activities:**

**BASS Conservation Award sponsored by AERF and APMS**

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

Bass Federation Nation of Virginia was selected as the recipient of the grant to support Aquatic Plant Management in 2016. The project will establish shoreline vegetation to improve fish habitat and shoreline stabilization on Claytor Lake, Leesville Lake and Smith Mountain Lake in VA. (An interim report was provided in January 2017. well as photos of the project)

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

For 2017 the New Mexico BASS Nation has been awarded the Aquatic Plant Management Conservation grant for \$2000. Their project involves establishing shoreline vegetation on Elephant Butte Reservoir. Our grant is only a portion of the funds being raised by the New Mexico Bass Nation and the project has already been initiated. Please see the attached files outlining the project.

**I am requesting that the APMS and AERF sponsor this Aquatic Plant Management Conservation grant again in 2018. Please budget \$1500 each (AERF and APMS) as well as funds (\$1500 each) to support the BASS banquet during the 2018 Classic in Greenville, SC (L. Hartwell), March 16-18.**

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

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

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

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

## Elephant Butte Willows Project, New Mexico BASS Nation

This project is a new component of a five-year project to improve fish habitat and restore native vegetation at [Elephant Butte Reservoir](#) in New Mexico. The lake is an irrigation reservoir and the most visited state park with over 250,000 annual visitors. The lake level drops about 30 feet between June and August for irrigation and municipal water releases, exposing approximately 114,000 acres of barren shoreline, mainly on the west side of the lake where campers and vehicles are allowed. The vegetation plans for the lake include several innovative methods to introduce native seeds and seedlings to the moist shoreline as it recedes. This project is to pursue one particular species of interest, the Gooding willow (*Salix goodingii*). During field exploration and observation, the Ruidoso High School science class confirmed that the Gooding willow is able to survive being submerged for several months in water as deep as 20 feet. One plant was estimated to be over four years old and has survived three extended submersions, beavers and propeller damage. Other isolated younger plants were observed in several coves. It is believed that restoration of these native plants would eventually create dense stands that would provide shoreline habitat during the summer and fall and fish habitat during the winter and spring. If successful, it is likely that Federal grants could be obtained for additional plantings where habitat for the endangered Southwestern Willow Flycatcher is desired.



Old willow



New willow growth



Ruidoso High School seeding day

Further evaluation found that the Gooding willow was able to compete with invasive tamarisk in the far north reaches of the lake where it provides critical habitat for the endangered southwestern willow flycatcher.

Up to \$2000 is requested to launch the project, but any amount would be used immediately to purchase seedlings and collect pole cuttings before May, 2017 in selected coves and to establish 2 or more floating nursery willow islands for future pole cuttings. The Albuquerque Hawg Hunters bass club and several youth organizations including the Mesilla Valley (B.A.S.S.) high school angling club have been experimenting with native plant restoration at Elephant Butte and will be involved in every stage of the project. New Mexico State University AFS student chapter, Ruidoso High School, and Hot Springs (TorC) High School are all engaged in the project with a special focus on innovative planting techniques to create seed colonies. Field observation and monitoring will continue as part of the five-year permitted project. The youth adult tournament anglers are very aware of the project. They regularly report on the current state of habitat improvements and often suggest improvements.

All of the funds will be used to purchase, transport and plant seedlings, deep pot plants and pole cuttings from the New Mexico Forestry seedling program, NRCS Plant Materials Center or local pole cutting areas. Matching in-kind donations and volunteer labor have and will continue to exceed all grant values. Over 50 volunteer days were logged during 2016 as well as donated time and boats from the marina operator and New Mexico Game and Fish. Local businesses have agreed to help with seedling distribution including the local kayak rental shop.

The Bureau of Reclamation permitted the project and letters of support were received from New Mexico Game and Fish, New Mexico State Parks and the Los Lunas Natural Resource Conservation Service ([NRCS](#)). Permit and letters of support are available

upon request. Additional information and photos are also available. The project can also be followed on facebook at [Elephant Butte Adapt-a-Cove](#).

For more information, contact Earl Conway, NM BASS Nation president and conservation director.

(505) 610-5156, email: [President@nmgbfn.com](mailto:President@nmgbfn.com) or [way2busy2fish@aol.com](mailto:way2busy2fish@aol.com)

Maps and pictures: Appendix to Elephant Butte Willows Project



Four trial sediment delta areas (A-D) are proposed for willow planting

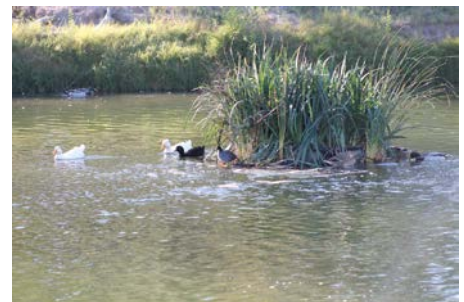


Dense stands of Gooding willows are established north of the project area

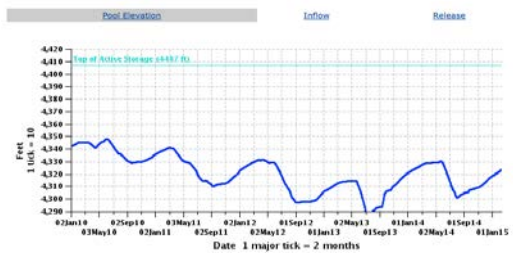


Gooding willows are a key plant for the endangered Southwest Willow Flycatcher

The Albuquerque Hawg Hunters have extensive experience and success establishing floating island plant colonies.



# Elephant Butte Reservoir



Water releases in June create a wet receding shoreline when new willows can be established. But the plants have to be able to withstand submersion for several months in the winter.

Joseph Vassios  
CAST Report  
APMS Mid-Year BOD Meeting  
Submitted January 16, 2018

Thank you for the opportunity to serve the APMS representative to the Council for Agricultural Science and Technology (CAST).

I'd like to take this opportunity to share news on CAST's recent work and events, as well as some plans for 2018. Attached is a [Summary of Activities to update on CAST's June – November events](#), activities, projects, and new board members. I was unable to attend this year's meeting due to a scheduling conflict, but Justin Nawrocki was able to attend in my absence, and had opportunity to network with other CAST members.

Speaker notes and officer reports from the annual meeting can be found at the following link "2017 Annual Meeting" tab: [castscience-my.sharepoint.com/personal/msly\\_cast-science\\_org/\\_layouts/15/WopiFrame.aspx?guestaccesstoken=0YPnJF0ddQSV8CesudNbCN2%2f8Bqyyq0YgVZQ5BWA3%2fr4%3d&folderid=15a26cfeb77554a04aa714d229426c6d1&action=view](https://castscience-my.sharepoint.com/personal/msly_cast-science_org/_layouts/15/WopiFrame.aspx?guestaccesstoken=0YPnJF0ddQSV8CesudNbCN2%2f8Bqyyq0YgVZQ5BWA3%2fr4%3d&folderid=15a26cfeb77554a04aa714d229426c6d1&action=view)] under the

As you know, I participate in the CAST Plant Work Group which meets monthly by conference call to discuss current projects being developed, and contributing ideas for future publications on behalf of the APMS. We have identified some timely issues that we're currently developing proposals for and have begun the process of creating task forces for papers to be released in 2018 and 2019. To see the latest impact reports on CAST's recently released publications, please [visit the CAST website](#).

Find additional details on the Plant Work Group activities at the following link: [castscience-my.sharepoint.com/personal/msly\\_cast-science\\_org/\\_layouts/15/WopiFrame.aspx?folderid=17876b0c6edf54b3abf7858c3c140d81c&authkey=ARokeMnq-Qm0vazdrH07s1g&action=view](https://castscience-my.sharepoint.com/personal/msly_cast-science_org/_layouts/15/WopiFrame.aspx?folderid=17876b0c6edf54b3abf7858c3c140d81c&authkey=ARokeMnq-Qm0vazdrH07s1g&action=view)

You will note from this link that we have the HAB proposal still pending, and I will be providing a revised version soon so we can move forward with it's publication.

If you have any suggestions or questions for the CAST staff or boards, please share those with me and I will bring them forward on a future work group call. Also, remember that there is a "Submit an Idea" button on the CAST homepage where anyone can make a suggestion.

Thank you for APMS's continued support of CAST.

NALMS Report  
Submitted by: Terry McNabb

NALMS held our 2017 meeting in the Denver, CO area and had an excellent turn out. Same hotel (Westin in Westminster) as Western Aquatic Plant Management Society meeting about 5-6 years ago). Our next meeting will be in Cincinnati, OH October 30-Nov 2nd.

In the past, APMS and NALMS have shared booth space at annual meetings, we would like to continue that practice and bring a booth to the APMS meeting this summer in exchange for booth space at our Cincinnati meeting in October. I can help with both of these in terms of assisting NALMS set up at APMS and vice versa.

We elected a new board and president. Dr. Frank Browne was installed as our president for this year. He was one of the original member and founders of NALMS. He requested that I pass on the following information.

We are updating our web site with a focus on content including “Ask a Lake Expert” section. There may be questions best directed to APMS members as these start coming in and I will follow up with that.

Our Harmful Algae Bloom (HAB) committee has developed a “state of the art” module that will be on our web site very soon.

We are changing our bi-monthly Nalms Notes to the NALMS Notes and Lake News and expanding that publication. We would welcome any news articles from the Aquatic Plant Management Society members that would like to contribute to this effort. This gets distributed to over 1,000 members on our mailing list. We are not looking to publish long articles, more interested in a short summary paragraph or so and link to longer articles. APMS members can forward information to [fxbrowne@fxbrowne.com](mailto:fxbrowne@fxbrowne.com) or Alyssa Schulte at [aschulte@nalms.org](mailto:aschulte@nalms.org).

We would be glad to email free copies of NALMS Notes and Lake News to any APMS members who would like to receive a copy.

Sincerely,

Terry McNabb, CLM  
Manager/Aquatic Biologist/Certified Lake Manager  
For more information on NALMS Certified Lake Manager Program, [www.nalms.org](http://www.nalms.org)

[www.aquatechnex.com](http://www.aquatechnex.com)

RISE Report  
Submitted by: Sam Barrick

The RISE Aquatics Committee continues to focus on two key legislative priorities – the passage of legislation to eliminate NPDES permit requirements and promoting the role of aquatic pesticides in protecting endangered species. We also continue to support the Administration’s efforts repeal of the Waters of the United States (WOTUS) regulation.

NPDES permit legislation has passed the U.S House of Representatives of numerous occasions over the past several years, but has stalled in the United States Senate. During this session of Congress, the House passed the “Reducing Regulatory Burdens Act” (HR 953) on May 24, 2017. The Senate has not taken any action on companion legislation, the “Sensible Environmental Protection Act” (S 340). RISE has been working with allied organizations to encourage the Senate Environment and Public Works (EPW) Committee to take up the legislation or include NPDES permit relief in an upcoming infrastructure bill or other legislation that it plans to pass out of committee. On December 11, RISE hosted a briefing on NPDES permits for Senate environment staffers, along with the American Mosquito Control Association, National Agricultural Aviation, and National Association of State Departments of Agriculture. The following individuals spoke during the briefing:

- Dr. Steve Bradbury, PhD, Former Director of the Office of Pesticide Programs, *Regulating Pesticides under FIFRA to Protect National Water Resources*;
- Gary Goodman - Manager, Sacramento Yolo Mosquito & Vector Control District: *NPDES Overview and impact on vector control and public health*;
- Paul Bauman - General Manager, Toledo Area Sanitary District: *Subject of NPDES civil suit*;
- New Mexico Secretary of Agriculture Jeff Witte: *Impact of NPDES on agriculture production*;
- Jeff Schardt, Florida Fish and Wildlife Commission (Retired): *Protecting Infrastructure and Controlling Invasive Aquatic Weeds*; and
- Leonard Felix - Arial applicator: *Public health vector control treatment curtailed due to permitting restrictions*.

Steve Bradbury spoke about EPA’s risk assessment process, aquatic life benchmarks and all the scientific analysis required under FIFRA to ensure that aquatic pesticides do not harm aquatic wildlife or habitat.

Paul Bauman, spoke about a pending citizen action lawsuit against the Toledo Area Sanitary District. He explained that to date, the district has spent \$46,000 to comply with litigation related to paperwork and that these funds have been diverted from actual mosquito control treatments.

Gary Goodman provides brief history of NPDES permits including the *Talent Irrigation District* decision, the 2006 final rule on aquatic pesticides and the *National Cotton Council v. EPA* decision. He said that the permits are costly to comply with and have not result in any additional environmental protections beyond those required under FIFRA. He also highlighted the public health threats associated with mosquitoes.

Jeff Schardt highlighted the problems caused by invasive aquatic weeds including impeding boating and fishing, clogging irrigation canals and even threatening bridges. He said that paperwork delays associated with permits have consequences because invasive weeds grow so quickly. If the infestation is not treated promptly, the weeds can spread to adjacent waters and require additional pesticide treatments. He also discussed the pitfalls of mechanical harvesters.

Leonard Felix said that the liability associated with NPDES permits caused his aerial application business to stop applying aquatic herbicides and mosquito control products. He became very emotional when describing a woman who died of West Nile Virus in 2012 because his company was unable to apply product due the permit constraints.

In addition to this briefing, RISE continues to meet with senior Senate staff to highlight the problems associated with NPDES permits. Working with a coalition, we have also been encouraging the House and Senate Agriculture Committees to include NPDES permit relief in the 2018 farm bill that the committees are currently drafting.

RISE is also urging the House and Senate Agriculture Committees to reform the Endangered Species Act consultation process between the EPA, Fish and Wildlife Service and National Marine Fisheries Service. In addition, we are working with the Administration on potential regulatory changes to streamline the consultation process. During all of these discussions, RISE highlights the role of aquatic pesticides in protecting endangered species and their habitat.

Finally, RISE continues to support the Administration's effort to rescind the 2015 WOTUS regulation and replace it with a new rule that more clearly defines which waters are subject to federal regulation. Rescinding the rule is a two-step process that will take some time. RISE submitted comments in September on the Administration's proposal to rescind the rule. In November, we submitted our recommendations for a new rule that focuses on state regulation and excluding man-made water features. In December, we submitted comments in support of the Administration's proposal to delay the 2015 rule's implementation date. We are also closely monitoring the pending litigation around the rule.



**Women of Aquatics**  
**APMS-Midyear Board Book Report**  
**January 2018**

**Submitted by Amy Kay**

**Women of Aquatics Mission**

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

**Areas of Focus**

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

**2017-2018 Goals & Progress**

- Have a WOA meeting at each conference as able to increase participation, retention and growth within the organization and our industry as a whole. Established a goal to meet at two additional conferences each year until all have had WOA meetings. The two new chapters in 2017 were FAPMS and TAPMS.
  - Meetings were held this year at NEAPMS, MAPMS, WAPMS, and Wisconsin Lakes Partnership, APMS, FAPMS and TAPMS.
- Establish Board of Directors: President: Amy Kay, Clean Lakes; Vice President: Sue Cruz, Vertex Water Features; Treasurer: Syndell Parks, Grand Valley State University; Director: Amy Ferriter, Crop Production Services; Director: Shannon Junior, SOLitude Lake Management; Director: Emily Henrigillis Onterra LLC.
  - Newly Added:
    - Director: Emily Griffith, Sprayco; Director: Sam Sardes, Aquatic Systems; Director: Lyn Gettys, University of Florida; Director: Dehlia Albrecht, University of Florida; Director: Norma Swann, Alligare
  - Still looking to add a Secretary and Editor.
- Bank Account Established, QuickBooks purchased and Linked to Account
  - As of December, 2017 we are capable of processing memberships and accepting donations via credit card online, check or cash.
- Website Launch
  - Met with someone willing to set this up for little to no cost in December, 2017. Will pursue this in early 2018.
- Membership Established
  - \$50 annual professional membership
  - \$25 annual student membership
    - Annual membership will include:
      - 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 the annual Women of Aquatics retreat.
      - Women of Aquatics lapel pin for new members.
- Create a Strategic Plan
  - February 16-18, 2018 will be the first annual Women of Aquatics retreat in which a majority of time will be spent creating our strategic plan. The retreat will be held in New Buffalo, Michigan and we plan to have 10 participants.

*WOA would like to thank the APMS board for the continued participation and support provided.  
Any feedback or suggestions are encouraged.*

## WSSA Report

Submitted by: Rob Richardson

No WSSA board meetings since APMS annual meeting report.

The 2018 WSSA annual meeting will be January 29 – February 1 in Arlington, VA.

The aquatic session is a fun filled extravaganza of presentations with around 3 talks in the whole session and perhaps 2 of them being directly related to aquatic plant management.

The WSSA switch to Cambridge for their journals continues to be a good decision although Weed Science and Weed Technology have far more submissions than Invasive Plant Science and Management.

The 2020 annual meeting will likely be in Hawaii. I suggest an aquatic plant symposium at this venue.

## Director of Science Policy Report – Lee Van Wychen

### APMS Mid-Year Board Meeting. Jan. 5, 2018

**WSSA-EPA Liaison:** Mike Barrett served as WSSA-EPA Liaison for 4 years and made his last visit to EPA in December, which overlapped with **Greg Kruger**'s second visit as the new WSSA-EPA Liaison. Dr. Kruger earned his Ph.D. in Weed Science from Purdue University in 2010 and is now an associate professor with both research and extension responsibilities located at the University of Nebraska's West Central Research and Extension Center in North Platte, NE. His research interests include mitigating pesticide drift, optimizing pesticide application technologies, and management of herbicide-resistant weeds.

**USDA-NIFA Fellow:** Donn Shilling, University of Georgia, has served as the WSSA-USDA National Institute for Food and Agriculture (NIFA) Fellow for 3 years and has announced he will be stepping down from that role in 2018. **WSSA will solicit applications for the position after their annual meeting in February.** The overall vision and goal of the WSSA-NIFA Fellow is to help enhance NIFA's understanding of weed science and vice-versa that results in a positive impact for both weed science and agriculture.

**Harmful Algal Blooms Fact Sheet:** The WSSA Public Awareness Committee worked with John Rodgers and other APMS members to develop a fact sheet on harmful algal blooms and issue a press release on October 16, 2017. For details: <http://wssa.net/2017/10/experts-say-its-time-to-get-the-facts-and-take-action-against-algal-bloom/>

**FY 2018 Federal Budget:** The government is running on a continuing resolution (CR) until Jan. 19. It is unlikely that the House and Senate will reach a budget agreement by then and there is talk they will pass another CR funding the government through Feb. 19. The House and Senate have passed individual FY 2018 spending bills, but none have gone to conference to iron out differences between chambers because they still need to pass a budget resolution that would waive sequestration caps for FY 2018 and 2019. Sequestration would be bad! In addition there are other high profile issues (i.e. dreamers, border wall, debt ceiling, federal disaster aid) that could further complicate this. I still think there will be a government shut down before it's all said and done. One major issue with a CR for the entire year is that the Army Corp of Engineers (ACOE) has indicated it will not disburse funds to the Aquatic Plant Control Research Program (APCRP), even though APCRP received funding in FY 2017 (and there is funding for APCRP in FY 2018 in the Senate bill).

**Assistant Secretary of the Army for Civil Works:** R.D. James, a farmer from Missouri and long time member of the Mississippi River Commission, has been approved by the Senate Armed Forces Committee in November and the Senate Environment and Public Works Committee in December to lead the Army Corps of Engineers. He is awaiting final confirmation by the full Senate, which is expected to happen in January. Once confirmed, key leaders from APMS and AERF need to meet with him about aquatic weed research issues.

**USDA Leadership Positions Still Vacant:** There is an effort to get **Rich Bonanno**, Associate Dean and head of NC State Extension, nominated for the USDA Under Secretary for Research, Education and Economics, which is USDA's "Chief Scientist" that oversees USDA-ARS, -NIFA, -ERS, and -NASS. **Bill Northey**, former Iowa Secretary of Ag who spoke at the North Central Weed Science Society meeting in 2016, has been approved by the Senate Ag Committee for USDA Under Secretary for Farm Production and Conservation. However, his final confirmation by the full Senate has been put on hold by Sen. Ted Cruz (TX) due to Cruz's concerns about ethanol and the Renewable Fuel Standard.

**Divisive Dicamba:** Without a question, the most divisive issue I have faced in my 11+ years as Director of Science Policy. EPA announced label changes for Extendimax, Engenia, and Fexapan on Oct. 13. EPA has made it clear that if we have a repeat of 2017, they will not renew the labels. Continuing research needed to

quantify the risks (physical drift, tank contamination, temperature inversions, volatility, and misuse) and the benefits (weed resistance management) of dicamba-tolerant crops.

**Glyphosate Not Carcinogenic:** The International Agency for Research on Cancer's (IARC) witch hunt on glyphosate, unfortunately, has been one of best public misinformation and fear mongering campaigns ever conducted, which was spearheaded by Christopher Portier. [Reuters reported](#) that just before the IARC's final report on glyphosate was released, there were at least 10 changes that were made where a negative conclusion about glyphosate leading to tumors was either deleted or replaced with a neutral or positive one.

WSSA feels that the **IARC review process for glyphosate was flawed and represents a case of gross scientific negligence.** There is no question that IARC arrived at their conclusion due to their inclusion of the positive findings from a selection of studies with known limitations, a lack of reproducible positive findings, and the omission of the negative findings from credible and reliable research. <http://wssa.net/wp-content/uploads/WSSA-comments-to-EPA-SAP-on-glyphosate.pdf>

On November 9, 2017, [updated results from the Agricultural Health Study](#) regarding glyphosate use and cancer incidence were published in the Journal of the National Cancer Institute. In this large, prospective cohort study, no association was apparent between glyphosate and any solid tumors or lymphoid malignancies overall, including NHL and its subtypes. Specifically, among 54,251 applicators, 44,932 used glyphosate, including 5,779 incident cancer cases. In unlagged analyses, **glyphosate was not statistically significantly associated with cancer at any site.**

On December 19, 2017, EPA released its human health draft risk assessment that incorporates the cancer re-evaluation, an updated incident report, review of the literature for non-cancer effects, and a summary of the EPA analyses of human milk. EPA's draft human health risk assessment concludes that glyphosate is not likely to be carcinogenic to humans and found no other meaningful risks to human health when the product is used according to the label. The draft risk assessments and supporting documents are at: <http://www.epa.gov/ingredients-used-pesticide-products/draft-human-health-and-ecological-risk-assessments-glyphosate>. EPA will be opening a 60-day public comment period in early 2018 that will be posted in glyphosate's registration review docket EPA-HQ-OPP-2009-0361 on <http://www.regulations.gov/>.

**EPA Finalizes Herbicide Resistance Management Guidance:** In September, after many years of collaboration between EPA and weed scientists, EPA finalized its "Guidance for Herbicide Resistance Management Labeling, Education, Training, and Stewardship", which is referred to as Pesticide Registration Notice (PRN) 2017-2. Please see: <https://www.epa.gov/pesticide-registration/prn-2017-2-guidance-herbicide-resistance-management-labeling-education>.

This guidance applies to all herbicide uses, except for those applied in residential settings (i.e. lawns). One use category that we asked EPA to exclude from this guidance was herbicides applied for aquatic weed control due to the very different nature in how aquatic weeds are managed. As most of you know, using the full-labeled rate for aquatic herbicides is often not feasible and actually in direct conflict with NPDES permit requirements that mandate the "lowest possible discharge" be conducted. However, **the resistance management guidance in PRN 2017-2 will still apply to aquatic herbicides.**

PRN 2017-2 will apply to any new herbicide products as well as existing herbicides that go through registration review. Most of the resistance management "elements" will be addressed on the herbicide label, which will include the following:

- Placing the herbicide mechanism of action (MOA) on the label (using the WSSA MOA classification)
- Clearly expressing application parameters and full-labeled use rates
- Recommendations to scout the treatment area both before and after application

- How to identify suspected resistance
- How to report lack of performance to the registrant and proactively take action before escaped weeds become widespread
- A list of herbicide resistance BMP's (using WSSA and HRAC guidance)
- Information to help make growers and applicators aware of herbicide resistant weeds found in their local area

The registrants will also be responsible for reporting new cases of suspected and confirmed resistance to EPA and users, and in certain circumstances, may be required to follow additional guidance such as “apply only with another MOA”.

The last major part of PRN-2017-2 will be dependent upon the weed management stakeholder community (weed management consultants, university extension, commodity groups, registrants, etc...) to provide educational and training materials for applicators and users **at the local level**. EPA states “the most successful strategies for herbicide resistance management will be tailored for local conditions” and that the stakeholder community “work collaboratively” to design effective material. Further guidance for developing resistance management plans and remedial action plans are provided in Appendix 1 at the end of PRN 2017-2.

**Monarchs and Milkweed:** The U.S. Fish and Wildlife Service (FWS) is working to [assess the effectiveness of monarch conservation efforts](#). JUNE 2019- anticipated timeframe for when FWS will make a decision on whether the monarch butterfly should be listed under the Endangered Species Act.

**National Invasive Species Awareness Week** (NISAW): **February 26 – March 2, 2018.**

In addition to the seminars and webinars in Washington DC during the week, we'd like to highlight invasive species prevention and management activities occurring throughout the year. Activities will be posted on [www.nisaw.org](http://www.nisaw.org) as they become available (hopefully by Jan. 15). If you are interested in getting involved with NISAW or would like to sponsor events during the week, please contact me or Rick Otis with the Reduce Risks from Invasive Species Coalition (RRISC) at [rick.otis@rrisc.org](mailto:rick.otis@rrisc.org).

**ISAC Seeking Four New Members**

The federal Invasive Species Advisory Committee (ISAC) is seeking four new members. If you are interested in serving on ISAC please let me know. The deadline for applications is February 26, 2018. Details at: <https://www.federalregister.gov/documents/2017/12/27/2017-27829/invasive-species-advisory-committee-request-for-nominations>

**Proposal Would Delay WOTUS “Effective Date” Until 2020:** EPA and the Army Corps of Engineers have proposed to delay the effective date of the 2015 Waters of the United States (WOTUS) rule in order to provide regulatory certainty and prevent any confusion from a potential Supreme Court decision in early 2018. This action is separate from Trump's 2-step Executive Order on WOTUS issued in Feb. 2017.

The 2015 WOTUS rule had an effective date of August 28, 2015, but the implementation of the rule is currently stayed nationwide by the Sixth Circuit Court. However, the U.S. Supreme Court is currently considering the issue of what court has jurisdiction over challenges to the lawfulness of the WOTUS rule. If it decides the Sixth Circuit does not have jurisdiction, the stay could be lifted, which means the 2015 WOTUS rule could become effective immediately.

The Executive Order issued in Feb. 2017 proposed to rescind the WOTUS rule and to re-codify the regulatory definition that existed prior to 2015 (Step 1), followed by a second outreach period and rulemaking to propose a new definition of “waters of the United States” (Step 2). The comment period on Step 1 closed on September 27, 2017, and the EPA is in the process of reviewing the comments. EPA likely won't make a final decision on Step 1 until March 2018, which means the Supreme Court could issue a decision on jurisdiction before the EPA has rescinded the 2015 rule.

EPA and the Corp are expected to finalize the delay in the effective date of the 2015 WOTUS rule in early 2018, which means that the 2015 WOTUS rule would not be effective until sometime in 2020, thus providing EPA another two years to rescind the rule and promulgate a replacement rule.

**NPDES Fix Legislation:** There is a renewed effort on the Senate side to pass a NPDES fix bill, S. 340, which is the companion bill to H.R. 953 on the House side that was passed on May 24, 2017. The bills amend FIFRA and the Clean Water Act to prohibit the EPA or a state from requiring a permit under the National Pollutant Discharge Elimination System (NPDES) for a discharge of a pesticide from a point source into navigable waters if the discharge is approved under FIFRA. (Please see attached letter below to the Senate that was endorsed by six national and regional weed science societies and AERF).

### **2018 Weed Survey Will Focus on Aquatic Weeds**

This year, the national and regional weed science societies survey of the most common and troublesome weeds in the U.S. and Canada will focus on weeds in the following areas: **1) aquatic – irrigation & flood control, 2) aquatic – lakes, rivers, reservoirs, 3) aquatic – ponds,** 4) forestry, 5) natural areas – parks, wildlife refuges, 6) ornamentals, and 7) right-of-ways – rail, road, utility. I'll be sending out a survey link in the next month or two and will be asking APMS and its regional and state chapters to distribute the survey widely among your members. Our goal is to exceed the number of survey responses we received the last time we surveyed aquatic weeds in 2015. <http://wssa.net/wp-content/uploads/2015-Baseline-Survey-results.pptx> Specifically, Irrigation and flood control had 7 survey respondents; Lakes, rivers, reservoirs had 58 survey respondents; and Ponds had 19 survey respondents.

Thanks,

Lee Van Wychen, Ph.D.  
Science Policy Director  
National and Regional Weed Science Societies  
5720 Glenmullen Pl, Alexandria, VA 22303  
[Lee.VanWychen@wssa.net](mailto:Lee.VanWychen@wssa.net)  
Phone: 202-746-4686

### **Meetings of the National and Regional Weed Science Societies**

**Jan. 9 - 11, 2018** Northeastern Weed Science Society (NEWSS), Philadelphia, PA [www.newss.org](http://www.newss.org)

**Jan. 22 - 24, 2018** Southern Weed Science Society (SWSS), Atlanta, GA [www.swss.ws](http://www.swss.ws)

**Jan. 29 - Feb. 1, 2018** Weed Science Society of America (WSSA), Arlington, VA [www.wssa.net](http://www.wssa.net)

**Mar. 12-15, 2018** Western Society of Weed Science (WSWS), Garden Grove, CA [www.wsweedsociety.org](http://www.wsweedsociety.org)

**Jul. 15 - 18, 2018** Aquatic Plant Management Society (APMS), Buffalo, NY [www.apms.org](http://www.apms.org)

**Dec. 3 - 6, 2018** North Central Weed Science Society (NCWSS), Milwaukee, WI [www.ncwss.org](http://www.ncwss.org)

December 5, 2017

The Honorable John Barasso  
Chairman Senate Committee  
on Environment & Public Works  
410 Dirksen Senate Office Building  
Washington DC 20510

The Honorable Tom Carper  
Ranking Member Senate Committee  
on Environment & Public Works  
456 Dirksen Senate Office Building  
Washington, DC 20510

Dear Senator Barroso and Senator Carper,

On behalf of the undersigned organizations, we urge your support and adoption of S. 340, the *Sensible Environmental Protection Act of 2017*. This bipartisan legislation, introduced by Sen. Crapo (R-ID) and Sen. McCaskill (D-MO), would foster the protection of public health, the environment and our national food supply.

For almost forty years, the Environmental Protection Agency (EPA) and pesticide applicators, including public health agencies charged with mosquito control, operated exclusively under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). All pesticides are reviewed and regulated for use with strict instructions on the EPA approved product label. A thorough review and accounting of impacts to water quality and aquatic species is part of every EPA review. In fact, EPA has testified to the adequacy of FIFRA's comprehensive regulatory requirements including protection of aquatic species and drinking water.

However, pesticide users are now subjected to a court created requirement that lawful applications over, or near "waters of the U.S." obtain a Clean Water Act (CWA) National Pollutant Discharge Elimination System (NPDES) permit from EPA or delegated states. Requiring these water permits for pesticide applications is redundant and provides no additional environmental benefit. S 340 clarifies that federal law does not require this redundant permit for already regulated pesticide applications.

Though the NPDES permit burden lacks any additional environmental benefit under these circumstances, it does impose costs on thousands of small application businesses and farms, as well as the municipal, county, state and federal agencies responsible for protecting natural resources and public health. Further, the permit *exposes all pesticide users* – regardless of permit eligibility – *to the liability of CWA-based citizen law suits*. In fact, for example, some applicators that once conducted mosquito abatement applications for local governments and homeowner associations – cannot afford the costs or risk of frivolous litigation that accompanies NPDES Pesticide General Permit (PGP)s and have refrained from conducting public health applications. Additionally, there currently is an ongoing lawsuit against a mosquito control district, forcing the district to spend its funds fighting in court instead of protecting public health.

In summary, requiring NPDES permits under these circumstances impacts the use of critical pesticides in protecting human health and the food supply from destructive and disease-carrying pests, in managing invasive weeds to keep open waterways and shipping lanes, to maintain rights of way for transportation and power generation, and in preventing damage to forests and recreation areas. The time and funds expended on redundant permit compliance drains public and private resources. All this for no measurable benefit to the environment.

House passage of similar legislation earlier this year (H.R. 953) shows a national commitment to advancing technology and public health. As such, we urge you to eliminate this unnecessary and duplicative regulation by moving forward in adoption of S. 340, the *Sensible Environmental Protection Act of 2017*.

Sincerely,

ADAPCO LLC	California Specialty Crops Council
Agricultural Retailers Association (ARA)	Camden County Mosquito Commission
Alabama Forestry Association	Cannock County Mosquito Abatement District
Alamosa, CO Mosquito Control District	Canyon County, ID Mosquito Abatement District
American Farm Bureau Federation	Cascade County, MT Weed & Mosquito Division
American Mosquito Control Association	Central Life Sciences
American Soybean Association	Charleston County Mosquito Control
AmericanHort	Chatham County, GA Mosquito Control
Animas, CO Mosquito Control District	Choptank, LLC
Aquatic Ecosystem Restoration Foundation	City of Alturas
Aquatic Plant Management Society	City of Baytown Texas Mosquito Control
Arkansas Agricultural Aviation Association	City of Sheridan, Public Works - Parks Dept.
Arkansas Forestry Association	Colorado Agricultural Aviation Association, Inc.
Associated Executives of Mosquito Control, NJ	Consumer Specialty Products Association
Atlantic County Office of Mosquito Control	Council of Producers & Distributors of Agro technology
Baker Valley Vector Control District	CropLife America
Barberton/Norton OH Mosquito Abatement District	Cumberland County Mosquito Control Division
Barker Valley, CA Vector Control District	Delaware Mosquito Control Section
Bay County Mosquito Control	Elmer Gray and Associates Entomological Services
Beach Mosquito Control District	Environmental Care Association of Idaho
Benton County, WA Mosquito Control District	Essex County Mosquito Control
Box Elder, UT Mosquito Abatement District	Flathead County, MT Mosquito Control Assoc.
Butte County, CA Mosquito & Vector Control	Florida Farm Bureau
Cache UT Mosquito Abatement District	Florida Fruit & Vegetable Association
Caddo Parish, LA Mosquito Control	
California Forestry Association	



Forest Landowners Association	Montana Mosquito & Vector Control Association
Franklin County Mosquito Control	Mosquito & Vector Control Association of California
Georgia Forestry Association	National Agricultural Aviation Association
Georgia Mosquito Control Association	National Alliance of Forest Owners
Glasgow Mosquito District, Glasgow, Montana	National Alliance of Independent Crop Consultants
Glenn County Mosquito & Vector Control District	National Association of Landscape Professionals
Golf Course Superintendents Association of America (GCSAA)	National Association of State Departments of Agriculture
Grand River Mosquito Control District	National Association of Wheat Growers
Hill County Mosquito District	National Corn Growers Association
Hudson Regional Health Commission	National Cotton Council
Iberia Parish Mosquito Abatement District	National Council of Farmer Cooperatives
Idaho Mosquito and Vector Control Association	National Onion Association
Illinois Agricultural Aviation Association	National Pest Management Association (NPMA)
Indian River Mosquito Control District	National Potato Council
Kansas Agricultural Aviation Association	National Sorghum Producers
Lake County Mosquito & Aquatic Plant Management	National Soybean Association
Lake Yale Baptist Conference Center	Nebraska Aviation Trades Association
Levy County Mosquito Control	New Hampshire Timberland Owners Association
Louisiana Forestry Association	New Hanover County Health Department, Vector Control Services
Louisiana Mosquito Control Association	New Jersey Mosquito Control Association
Mason Valley Mosquito Abatement District	North Carolina Agricultural Aviation Assoc.
Mercer County Mosquito Control, NJ	North Carolina Forestry Association
Michigan Mosquito Control Association	North Carolina Mosquito and Vector Control
Michigan Pest Management Association	North Central Weed Science Society
Middlesex County Mosquito Extermination Commission	North Shore Mosquito Abatement District
Mississippi Aerial Application Association	

Northeastern Mosquito Control Association	Taylor Tushar, Delta Vector Control District
Northeastern Weed Science Society	Tennessee Forestry Association
Northwest Mosquito and Vector Control Association	Teton County (Wyoming) Weed & Pest District
Ocean County Mosquito Extermination Commission	Texas Forestry Association
Ohio Mosquito and Vector Control Association	Town of Callahan
Oklahoma Agricultural Aviation Association	Turlock Mosquito Abatement District
Orange County, Florida Mosquito Control	Tuscola County Mosquito Abatement
Oregon Forest & Industries Council	U.S. Apple Association
Oregon Mosquito and Vector Control Association	Uinta County Mosquito Control
Oregonians for Food and Shelter	United Fresh Produce Association
Pennsylvania Vector Control Association	Unmanned Ingenuity LLC
Pesticide Policy Coalition	USA Rice
Placer Mosquito and Vector Control District	Utah County Mosquito Abatement
Practical Vector Control	Utah Mosquito Abatement Association
Responsible Industry for a Sound Environment (RISE)	Virginia Forestry Association
Sacramento-Yolo, CA MVCD	Virginia Pest Management Association
Saginaw County Mosquito Abatement Commission	Volusia County Mosquito Control
Salt Lake City Mosquito Abatement District	Warren County Mosquito Extermination Commission
South Carolina Aerial Applicators Association	Washington Forest Protection Association
South Salt Lake Valley Mosquito Abatement District	Washington State Potato Commission
Southeastern Lumber Manufacturers Association	Weber UT Mosquito Abatement District
Southern Weed Science Society	Weed Science Society of America
Suffolk County NY Vector Control	West Side Mosquito & Vector Control District
Sutter-Yuba Mosquito & Vector Control District	West Valley Mosquito and Vector Control District
	Western Growers
	Western Society of Weed Science

**CC: *Members United States Senate***



## THE AQUATIC PLANT MANAGEMENT SOCIETY, Inc.

7922 NW 71st Street  
Gainesville, FL 32653  
[www.apms.org](http://www.apms.org)

### ANNOUNCEMENT

### APMS GRADUATE STUDENT RESEARCH GRANT

A graduate student research grant in the area of aquatic plant management and ecology is being offered by the Aquatic Plant Management Society's research and education initiative. Co-sponsors of this academic award include regional APMS chapters: Florida, MidSouth, Midwest, Northeast, South Carolina, Texas, and Western.

**Objective:** To provide a grant for a full-time graduate student to conduct research in an area involving aquatic plant management techniques (used alone or integrated with other management approaches) or in aquatic ecology related to the biology or management of regionally or nationally recognized nuisance aquatic vegetation.

**Applicants:** Solicitation for proposals is open to any full-time faculty member and/or graduate student of an accredited U.S. academic institution. A faculty sponsor must be identified if the application is submitted by a graduate student.

**Amount:** \$40,000 (APMS does not pay overhead or indirect charges).

**Duration:** Two (2) years (\$20,000 per year).

**Proposal Deadline:** Applications must be postmarked no later than April 15<sup>th</sup>, 2018.

**Guidelines for Proposals:** Proposals should contain a concise statement of the project, including its purpose and justification, as well as sections that discuss study objectives, methodology, schedule, budget, and planned publication of results. The résumé of the faculty applicant and graduate student (if known) should not exceed two (2) pages each. Proposals should not exceed ten (10) pages, and must be signed by the applicant (principal investigator) and an appropriate university official. Include copies of your five (5) most recent peer reviewed publications.

**Please submit a pdf file of your full application via email to Mark Heilman, APMS Vice President at: [markh@sepro.com](mailto:markh@sepro.com)**

**Award:** Notification of award will be provided to the faculty member in time to make arrangements to attend the APMS 58<sup>th</sup> Annual Meeting (July 16-18, 2018 – Hyatt Regency, Buffalo, NY). Formal announcement of the recipient will be made at the Annual Meeting, with initiation of the grant scheduled for the 2019-2020 academic year. Payments in the amount of \$20,000 will be made before January 31<sup>st</sup> of 2019 and 2020.

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

*Inquiries:* Mark Heilman  
APMS Vice President  
317-388-3336  
[markh@sepro.com](mailto:markh@sepro.com)