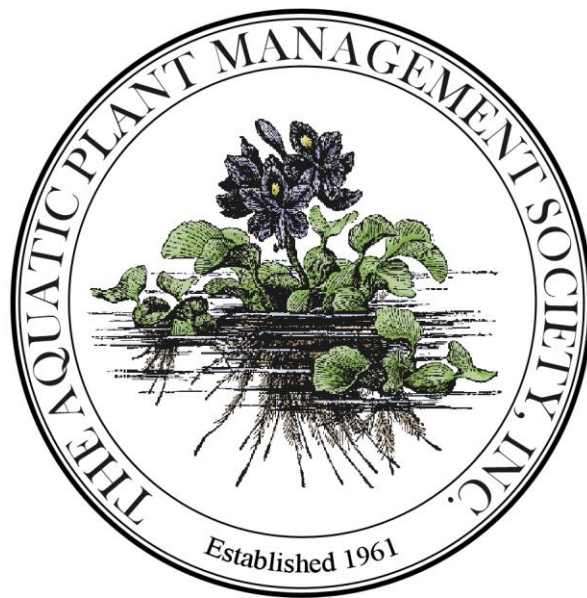


The Aquatic Plant Management Society



**Board Meeting
Hilton Oceanfront Resort
Myrtle Beach, SC
July 12, 2015**

AGENDA

Meeting of the Board of Directors
Hilton Savannah DeSoto, Harborview
Savannah, Georgia
January 14, 2014

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

8:00 a.m. Call to Order
10:00 a.m. Morning Break
10:20 a.m. Plant Camp and Lakeville Demonstration
12:00 p.m. Board Room Lunch
12:30 p.m. Reconvene Board Meeting
1:00 p.m. Tour of Hotel facilities with Beverly Cosmann
1:30 p.m. Reconvene Board Meeting with Meeting Planning Report
3:30 p.m. Afternoon Break
5:30 p.m. Adjourn

8:00 a.m. CALL TO ORDER - President Mike Netherland

ROLL CALL - Secretary Jeff Schardt

Seating of Proxies

Recognition of Visitors

Minutes from the Board of Directors meetings held July 14 and 17, 2013 and the Annual Business Meeting held July 15, 2013 in San Antonio, TX, and subsequent email Board of Director votes to be considered and approved by the Board.

REPORT OF THE PRESIDENT - Mike Netherland

REPORT OF THE TREASURER - Sherry Whitaker

REPORT OF THE SECRETARY - Jeff Schardt

REPORT OF THE EDITOR - Jay Ferrell

Approval of Officer Reports

COMMITTEE REPORTS

Awards - Don Doggett
Bylaws and Resolutions - Jim Schmidt
Education and Outreach - Jeff Schardt
Exhibits - Craig Aguillard
Finance - John Gardner
Legislative - John Madsen
Meeting Planning - Tommy Bowen
Membership - Joe Vassios

Nominating - Terry Goldsby
Past President's Advisory - Terry Goldsby
Program - Cody Gray
Publications - Jay Ferrell
Regional Chapters - Rob Richardson
Scholastic Endowment - John Gardner
Strategic Planning - John Rodgers
Student Affairs - Rebecca Haynie
Web Site - Ryan Wersal

SPECIAL REPRESENTATIVE REPORTS

AERF - Carlton Layne
BASS - Gerald Adrian
CAST - Ryan Wersal
NALMS - Terry McNabb
RISE - Joe Bondra
Science Policy Director - Lee Van Wychen
WSSA - Cody Gray

Approval of Committee and Special Representative Reports

OLD BUSINESS

NEW BUSINESS

Discuss future of Scholastic Endowment funded activities - an APMS core function.

Discuss APMS role in expanding Lakeville to regions outside Florida.

Discuss NCSU proposal to integrate APMS web site content with social media to increase APMS visibility among stakeholders.

Address bylaws change to consider Board deciding membership/subscription dues.
Currently, membership votes at annual meeting, so there can be a one-year delay in applying new costs.

All come to the midyear BOD meeting prepared to present and discuss proposals to provide APMS funding for relevant projects.

Discuss APMS Resistance Management Module.

Discuss merits of an APMS-funded Administrative Assistant to incorporate roles of Secretary and Treasurer and track progress of Board-approved financial commitments.

Discuss value of eliminating or combining dormant committees to reduce number of APMS Committees.

5:30 p.m. ADJOURN - President Mike Netherland

The Aquatic Plant Management Society, Incorporated
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

2013-2014 Officers and Directors

Officers

President - Michael Netherland
U.S. Army Corps of Engineers, ERDC

President Elect - Cody Gray
United Phosphorus, Inc.

Vice President - Robert Richardson
North Carolina State University

Immediate Past President - Terry Goldsby
Aqua Services, Inc.

Treasurer - Sherry Whitaker
U.S. Army Corps of Engineers, ERDC

Secretary - Jeffrey Schardt
FL Fish & Wildlife Conservation Commission

Editor - Jason Ferrell
University of Florida

Directors

David A. Isaacs
Aquatic Control

Larry McCord
Santee Cooper

Michael Masser
Texas A&M University

Joe Vassios
United Phosphorus, Inc.

Rebecca Haynie
SePRO Corporation

Vernon V. Vandiver Jr.
University of Florida

Student Director

Elizabeth A. Edgerton
Texas A&M University

2013-2014 Committee Chairs and Special Representatives

<u>Committee</u>	<u>Chair</u>	<u>Representative</u>	
Awards	Mike Netherland	AERF	Carlton Layne
Bylaws and Resolutions	Jim Schmidt	BASS	Gerald Adrian
Education and Outreach	Jeff Schardt	CAST	Ryan Wersal
Exhibits	Craig Aguillard	NALMS	Terry McNabb
Finance	John Gardner	RISE	Joe Bondra
Legislative	John Madsen	WSSA	Cody Gray
Meeting Planning	Tommy Bowen	Science Policy Director	Lee Van Wychen
Membership	Joe Vassios		
Nominating	Terry Goldsby		
Past President's Advisory	Terry Goldsby		
Program	Cody Gray		
Publications	Jay Ferrell		
Regional Chapters	Rob Richardson		
Scholastic Endowment	John Gardner		
Strategic Planning	John Rodgers, Jr.		
Student Affairs	Rebecca Haynie		
Web Site	Ryan Wersal		
Newsletter Editor	LeeAnn Glomski		

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Savannah, GA

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THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting

July 14, 2012

Westin Riverwalk Hotel

San Antonio, TX

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Sunday, July 14, 2013. President Terry Goldsby called the meeting to order at 8:00 a.m.

Officers and Directors present at roll call were:

Terry Goldsby, President
Mike Netherland, President Elect
Cody Gray, Vice President
Tyler Koschnick, Immediate Past President - arrived @ 10:15 a.m.
Sherry Whitaker, Treasurer
Jeff Schardt, Secretary
Rob Richardson, Editor
Craig Aguillard, Director
John Madsen, Director
David Isaacs, Director
Larry McCord, Director
Michael Masser, Director
Joe Vassios, Director
Casey Williams, Student Director

Others in attendance during portions of the meeting:

Tommy Bowen, Meeting Planning Committee Chair
Don Doggett, Awards Committee Chair
Jason Ferrell, University of Florida
John Gardner, Finance Committee Chair
Terry McNabb, NALMS President and Representative
Ken Manuel, Guest - former APMS President
Jim Schmidt, Bylaws and Resolutions Committee Chair
Bill Torres, Meeting Manager

MINUTES

The Minutes of the Midyear Board of Directors meeting held on February 19, 2013, in San Antonio and teleconference and e-mail votes discussed since the Midyear BOD meeting were considered by the Board for approval.

John Madsen motioned the Board to accept the minutes and post-Midyear email votes as written. Michael Masser seconded the motion. The motion passed without dissenting vote.

PRESIDENT'S REPORT

President Goldsby referred to his written report and reviewed the email votes also provided in the Minutes.

TREASURER'S REPORT

Treasurer Sherry Whitaker summarized the account balances. As of July 1, 2013 the General Account had a balance of \$429,523.39 with \$112,016.50 in checking and \$317,506.89 in general investments. The Scholastic Endowment Account had a balance of \$65,669.97 with \$47.08 in checking and \$65,622.89 in investments. The combined assets for the APMS total \$495,193.36.

Whitaker referenced the results from the audit conducted by Winston, Williams, Creech, Evans, and Company, LLP. She noted that the recurring criticism of payment approvals was not included in this report indicating that the current payment approval system now included in the Operating Manual is acceptable.

There was discussion regarding APMS Honorary Members and registration costs at the Annual Meeting. There is a perception that Honorary Membership includes waiving registration at the Annual Meeting.

SECRETARY'S REPORT

Secretary Schardt reported that the decision to provide a method to pay annual dues while registering for the Annual Meeting has resulted in picking up several new members during each of the past two years. There was a total of 48 new members in 2013. As of the Annual Meeting there were 331 (vs. 282 in 2012) Individual Members and 56 Library Subscriptions.

The Editor Report was requested to be delayed until later in the afternoon when Jason Ferrell could be in attendance.

David Isaacs motioned the Board to accept the Officer Reports thus far presented. The motion was seconded by Larry McCord. The motion passed without dissenting vote.

EDITOR'S REPORT

Editor Rob Richardson reported that there 22 active submissions to the Journal at the time of the meeting with an acceptance rate of about 48%. Allen Press is now handling all phases of the journal, from submission to editing, printing, and distribution. Articles take 90-110 days for initial decision and an additional 5-7 months for acceptance - similar to the timeframe for WSSA. Eleven articles are approved for the January and July 2013 Journal issues. Both issues are on the publication side of Allen Press.

Current list of Associate Editors includes: John Madsen, Mike Netherland, Ryan Wersal, Jason Ferrell, Mike Grodowitz, Chris Mudge, and Eric Dibble. The Associate Editors will handle the

technical review aspects of publication, while the Editor's role will be to organize and expedite the administrative side of publication.

John Madsen motioned the Board that APMS holds the subscription cost of the Journal through 2014 at \$200 per year with two issues per year, and that the Editor presents a proposal at the Midyear Board meeting for a recommended annual subscription cost and number of issues to publish per year. Rob Richardson seconded the motion. The motion passed without dissent.

Larry McCord motioned the Board to accept the Editor Report. Joe Vassios seconded the motion. The motion passed without dissent.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: Chair Don Doggett advised that profiles have been posted on the web site for most APMS Honorary Members. Doggett is still working with Dave Sutton to complete this information.

Bylaws and Resolutions Committee: Chair Jim Schmidt advised that Board-recommended Bylaws change to waive the three-year requirement to be nominated to be an APMS Officer was advertised for the appropriate amount of time and must now be approved by Membership vote at the Annual Business Meeting. The petitions for awarding Honorary Membership to Richard Hinterman and Don Doggett went through due process and passed in accordance with the Bylaws. Schmidt requested Officers, Directors, and Committee Chairs to review their duties in the Operating Manual and advise him if any changes should be made. He also reminded that coordinating this effort is a duty of the Immediate Past President.

Education and Outreach Committee: Chair Jeff Schardt reported that supplies of the membership brochures and booklets are running low and need revising before reprinting. While the tri-fold brochure will be reprinted, the Membership Booklet will be revised and posted online.

Schardt provided updates on Plant Camp and Lakeville, outreach programs for teachers and students provided at the University of Florida. Twenty-four teachers and 27 instructors participated in Plant Camp #7 in June 2013. 228 teachers have now attended Plant Camp.

Lakeville is an interactive classroom board game that incorporates the scientific concepts learned at Plant Camp, along with public speaking and critical thinking skills. Some students are selected as commissioners who evaluate presentations of others who advocate including native and invasive plants and animals in Lakeville. The group then predicts what Lakeville would ultimately look like with the plants and animals living in this system.

APMS and AERF each provided \$5,000 for this effort during the 2012/2013 school year. Kitty Lane presented Lakeville at 10 schools, working with 22 teachers, 34 classrooms, and 1340 students. Schardt indicated that the FL FWC will sponsor Kitty Lane's 10 school visits in school year 2013/2014. This will allow APMS to consider other education and outreach projects.

Schardt indicated that Plant Camp and Lakeville are two well received and beneficial programs for Florida, but may not provide as much benefit for a state that does not have an active invasive aquatic plant management program. If APMS moves forward to fund Plant Camp and Lakeville initiatives outside Florida, should there be a state agency sponsor that would benefit from the outreach effort. Worded differently, would Plant Camp and Lakeville provide meaningful information if there is no existing state agency effort that coordinates invasive aquatic plant management and should APMS only support Plant Camp or Lakeville in states with active invasive plant management programs? Should APMS fund programs that enrich student and teachers or fund programs that also support organized agency efforts to manage aquatic plants?

Schardt reported that APMS voted to provide funding for Kitty Lane to align Plant Camp and Lakeville curricula with Common Core Standards. Module one in the Plant Camp curricula is the most extensive and required all \$3,000 to align. That project is completed and FAPMS is sponsoring Lane to align modules 2-4.

Jeff Schardt motioned the Board that APMS provide \$1,000 to the University of Florida to sponsor a lunch and materials for 2014 Plant Camp in Florida. Cody Gray seconded the motion. The motion passed without dissent.

Mike Netherland motioned the Board to set aside a one-hour period at the 2014 Midyear BOD meeting for Katie Walters and Kitty Lane to present Plant Camp and Lakeville to the Board, and that APMS cover up to \$750 each for travel expenses. Larry McCord seconded the motion. The motion passed without dissent.

Exhibits Committee: Chair LeeAnn Glomski provided an update of exhibitors at the conference: 26 paid exhibits and 7 non-profits are registered. Exhibits and posters will be set up in the reception area to maximize viewing opportunities.

Finance Committee: Chair John Gardner referred to his report and noted that APMS is invested very conservatively. Gardner will assess and present at the Midyear BOD meeting a strategy to put more funds from the APMS Primary Account into the Scholastic Endowment Account. The focus will be to look at the income and expenses for the Scholastic Endowment Account and discuss future uses of Scholastic Endowment funds.

Legislative Committee: Chair John Madsen provided updates on Lee VanWychen's activities with the Weed Science Society of America (WSSA) including funding for the Corps of Engineers' Aquatic Plant Control Research Program (APCRP), Farm Bill research, and NPDES issues. Again APCRP funding was not in the Administration's budget. The Senate appropriated \$4 million for APCRP, while the House appropriation remains zero. There were no issues that required immediate Board action at this time.

Meeting Planning Committee: Chair Tommy Bowen reported that the required deposits have been forwarded to the Hilton Savannah DeSoto in Savannah, Georgia, the site of the 54th Annual Meeting, July 13-16, 2014. Bill Torres conducted a site visit of prospective hotel properties for the 2015 Annual Meeting to evaluate condition of facilities, quality of service, transportation,

and local attractions in Charleston and Myrtle Beach, South Carolina, and provided information to the Committee from prospective properties in Asheville and Wilmington, North Carolina and Kiawah Island, South Carolina. The Committee recommended the Myrtle Beach Hilton and the Board approved the meeting location by email. The 55th Annual Meeting will be held July 12-15, 2015. The hotel contract was signed on May 22, 2013 by President Terry Goldsby.

Membership Committee: Presentations will be made at the Awards Banquet in remembrance of John Gallagher and Bob Johnson, both of whom passed away in 2013.

Nominating Committee: Chair Tyler Koschnick reported that the slate of nominations for APMS Officers and Directors had been revised after LeeAnn Glomski had to withdraw as a Director candidate. The Board approved Rebecca Haynie for the slate to replace Glomski. The slate for 2013-2014 is as follows:

Vice President	Rob Richardson
Secretary	Jeff Schardt
Editor	Jay Ferrell
Director	Vernon Vandiver
Director	Rebecca Haynie

The slate of candidates and their biographies were published 30 days in advance of the Annual Business meeting as required in the Bylaws. The slate will be brought before the general membership at the Annual Business Meeting for a vote of approval or revision.

Past President's Advisory Committee: Chair Tyler Koschnick reported on three revisions to the Operating Manual:

- 1) Working with the Awards Committee to complete and post biographies and photos of APMS Honorary members
- 2) Revisions in travel reimbursements for Officers and Directors needing assistance to attend Board Meetings, approved by the Board.
- 3) The transition steps/roles for Associate Editors to move up to Editor.
- 4) A fourth task was added by the Board – Clarifying that current Bylaws language allows for free APMS annual membership for Honorary Members, but does not waive Annual Meeting registration fees.

Program Committee: Chair Mike Netherland advised that there will be six student oral presentations and four posters at the Annual Meeting. A session on herbicide resistance in aquatic plant management will be held on Wednesday as a first step toward APMS developing a white paper on this subject. Netherland discussed beginning a tradition of the President delivering the last presentation at the Annual meeting, by providing a summary of information presented and its relevance to future direction of APMS.

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

Regional Chapters Committee: Rather than presenting Chapter statistics at the Annual Meeting, Chair Cody Gray asked each Chapter representative at the meeting to provide a five-minute update of Chapter activities or items of interest going on in their area.

Scholastic Endowment Committee: Chair John Gardner reported that there are 19 confirmed donations for the silent auction and expects more donations at the meeting. Five raffle items are included in the Basket Raffle this year with a custom-made rifle valued at \$4000-4500 as the marquis item.

Strategic Planning Committee: No report. There was discussion that the next Strategic Planning Session is scheduled for January 2017 for approval in July 2017.

Student Affairs Committee: Student Director Casey Williams reported for Chair Rebecca Haynie. Casey Williams organized the post-meeting student tour and will lead the tour to Comal Springs and federal fish hatchery in San Marcos. The tour was outlined in the Program.

Website Committee: Sherry Whitaker commented regarding status of online credit card payments for APMS dues and meeting registration. Apex Studios (under contract with APMS for website maintenance and development) is establishing a Braintree Account but it is not yet finalized.

Student Director: No report was submitted. No issues were discussed.

AERF: Representative Carlton Layne reported that AERF is continuing the process of Strategic Planning. AERF sponsored travel expenses for four EPA pesticide registration section members (three of whom are new) to attend the APMS Annual Meeting as a learning experience.

BASS: In his written report, Representative Gerald Adrian advised that Noreen Clough is stepping down as B.A.S.S. National Director. Adrian also reminded that the APMS Board voted to provide a travel stipend to one member of the winning organization/club (for the best Conservation Project completed by a BASS Nation Club) to make a presentation during the 2014 APMS Annual Meeting in Savannah, GA.

CAST: John Madsen provided the report for Representative Ryan Wersal and advised that the CAST Commentary Paper proposed by APMS (*Benefits of Managing Aquatic Plants*) was reviewed and approved by CAST. APMS previously approved \$5,000 toward publishing this paper that will ultimately be presented to Congressional staff and policy makers. Madsen reported that a team has been assembled consisting of Kurt Getsinger (Chair), David Spencer, Eric Dibble, and John Rodgers to develop the paper. Madsen will work with AERF and RISE to generate additional funds for publication.

NALMS: Representative Terry McNabb advised that APMS and NALMS are trading exhibit space to set up displays at each entity's annual meeting. McNabb will set up the APMS display at the NALMS conference in San Diego in late December 2013. McNabb addressed the NALMS Certified Lake Manager initiative. AERF and APMS have addressed an APMS Certified Aquatic

Plant Manager initiative, but decided to not pursue at this time for various logistics, ethics, and time constraint matters.

RISE: No issues were discussed.

WSSA: Representative Cody Gray advised that WSSA is planning an herbicide resistance workshop and that he will begin developing an APMS team and strategy for an aquatic resistance management module after the July APMS Annual Meeting.

Science Policy Director: Lee Van Wychen provided a written report and agreed to phone in to discuss during the post-Annual Meeting Board meeting

John Madsen motioned the Board to accept the Committee and Special Representative Reports. Larry McCord seconded the motion. The motion passed without dissent.

Old Business: No Old Business was addressed.

New Business:

1. Renew contract with Florida Event Planning and Meeting Service.

Bill Torres provided a spread sheet at the request of the Board showing cost savings to APMS related to his negotiating activities with hotel management for the APMS Annual Meetings. During his tenure since 2010 and projected through 2015, Torres has saved an estimated \$72,000 especially in food and beverage and audio visual equipment expenses. The Meeting Planning Committee has also established a review process / check and balance system where Torres conducts site visits at several Annual Meeting locations, and the Meeting Planning Committee selects the best venue for ultimate Board approval.

Rob Richardson motioned the Board to renew the contract with Florida Event Planning and Meeting Service (Bill Torres). Tyler Koschnick seconded the motion. The motion passed without dissent.

Larry McCord motioned the Board to adjourn the meeting. Cody Gray seconded the motion. The motion passed without dissenting vote.

The Board meeting adjourned at 1:39 p.m.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Annual Business Meeting

July 15, 2013

Westin Riverwalk Hotel

San Antonio, Texas

The Annual Business Meeting of the Aquatic Plant Management Society, Inc. was held on Monday, July 15, 2013. President Terry Goldsby called the meeting to order at 4:10 p.m.

MINUTES

The Minutes of the 2012 Annual Business Meeting held in Salt Lake City, Utah on July 23, 2012, as well as Minutes from the previous 10 years were on display during the conference at the registration desk for review and consideration by the general membership. There was no discussion regarding these Minutes.

PRESIDENT'S REPORT

President Goldsby welcomed delegates to the 53rd Annual Meeting of the Aquatic Plant Management Society. Goldsby discussed a proposed Bylaws change that requires General membership approval. The Board proposes providing travel funds for Board members needing assistance to attend Board meetings. This in an effort to engage qualified participation with people who are interested in working on the APMS Board but may not have the travel funding to do so.

TREASURER'S REPORT

Treasurer Sherry Whitaker summarized the account balances. As of July 1, 2013 the General Checking Account had a balance of \$112,016.50 and \$317,506.89 in the General Investment Account. The Scholastic Endowment Checking Account had a balance of \$47.08 and \$65,622.89 in the Investment Account. The combined assets for the APMS total \$495,193.36.

Whitaker advised that APMS was audited as required and the audit report was good. The audit was performed by Winston, Williams, Creech, Evans, and Company, LLP. Whitaker reported that APMS initiated a check-and-balance procedure recommended in previous audits whereby all purchases and payments made by the Secretary are also approved by the President.

SECRETARY'S REPORT

Secretary Jeff Schardt reported that one duty of the Secretary is to log in and welcome new members. He reported that while membership had been declining in the few previous years, 31 new members had joined in 2012 and so far 49 in 2013 for a total APMS membership of 331.

EDITOR'S REPORT

Editor Rob Richardson advised the Membership that APMS is now using the online platform with Allen Press for journal submissions, review, publication, and distribution, increasing efficiency. There are approximately 24 articles in the journal system.

Larry McCord motioned to accept the Officer Reports. Jeff Schardt seconded the motion. The motion was approved without dissenting vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: Chair Don Doggett announced that biographies have been prepared and posted on the APMS website for most APMS Honorary Members and encouraged members to visit the site for insight of APMS history.

Bylaws and Resolutions Committee: Chair Jim Schmidt announced that there were several pieces of business to report. The Committee reviewed nominations for Honorary Membership for Richard Hinterman and Don Doggett and found both met APMS Honorary Membership criteria.

The Board requested a change in the Bylaws reducing the number of years required of candidates for eligibility as an APMS Officer. President Goldsby explained that this change is proposed to consider a qualified candidate for APMS Editor who has been an Associate Editor for APMS but does not have the required three years of continuous membership. The proposed language was advertised in the APMS Newsletter for vote by the general membership:

~~With the exception of the Student Director, no member shall be eligible for office who has not been a voting member of the Society for the immediate past three (3) consecutive years. No member shall be eligible for office who is not a current member in good standing, including Student Directors. Preference for Officers will be given to those members who have been voting members of the Society and/or members who have served the Society for the immediate past three (3) consecutive years.~~

John Madsen motioned to approve the above-proposed Bylaws change. Cody Gray seconded the motion. The motion passed without dissent.

Education and Outreach Committee: Jeff Schardt gave an update on three APMS-funded projects. APMS provided \$3,000 to Kitty Lane to align University of Florida classroom curricula on aquatic plants and their management with Common Core standards. APMS provided \$1,000 for Plant Camp materials. Plant Camp is a five day intensive program introducing 24 qualifying science teachers from the state to aquatic plant management issues in Florida. A total of 288 teachers have now participated in Plant Camp, now in its eighth year. Finally, both APMS and AERF provided \$5,000 to sponsor the Lakeville activity. Students play roles as Board Members while others advocate for various native and invasive plants and animals that seek residence in Lakeville. After all are heard and some are allowed into Lakeville, students then assess what the lake would look like in 6 months to a year with the new “residents”. The activity combines science with critical thinking and public speaking. Thirty-four classes and 1300 students

participated in Lakeville in 2012. APMS and AERF are contemplating expanding each the activity to schools in Georgia.

Exhibits Committee: Dean Jones reported that there are 27 paid and six not for profit displays in the exhibit hall.

Finance Committee: Chair John Gardner reported that APMS is conservatively invested in stocks and bonds that paid a modest 5.5% increase of about \$19,000 during the last year.

Legislative Committee: Chair John Madsen reviewed that APMS is a chapter of the Weed Science Society of America (WSSA) and as such can access the WSSA Science Policy Director Lee Van Wychen. Van Wychen works with legislators to provide information on aquatic plant related issues for APMS including NPDES and U.S. Army Corps of Engineers research funding.

Meeting Planning Committee: Chair Tommy Bowen reported that APMS has signed a contract with the Hilton on Kingston Plantation in Myrtle Beach for the 2015 APMS Annual Meeting. In 2016 APMS will meet in the Midwest region and in Florida in 2017.

Membership Committee: Chair Joe Vassios advised that the Committee is working on a membership questionnaire for feedback on meeting locations and other items of interest.

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

Vice President	Rob Richardson
Secretary	Jeff Schardt
Editor	Jay Ferrell
Director	Vernon Vandiver
Director	Rebecca Haynie

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

Larry McCord motioned to close nominations from the floor. Ken Manuel seconded the motion. The motion passed without dissent.

Jim Schmidt motioned to accept the slate of Officers and Directors. Larry McCord seconded the motion. The motion passed without dissenting vote.

Past President's Advisory Committee: Chair Tyler Koschnick mentioned that there would be a Luncheon for Past Presidents on July 16 at which time an estimated nine Past Presidents will address topics including revising the Operating Manual would be discussed.

Program Committee: Chair Mike Netherland announced that there are 44 oral presentations and 16 posters on the Program. The Program includes special sessions for the Texas Aquatic Plant Management Society and one on herbicide resistance management.

Publications Committee: No report.

Regional Chapters Committee: No report - regional chapter updates will be provided during the Program.

Scholastic Endowment Committee: Chair John Gardner thanked all contributors and participants in the Silent Auction and Awards Banquet Raffle that generates funds for APMS scholarship activities, travel and attendance at the APMS Annual Meeting. Twenty-five items were donated for the silent auction and five raffle items are included in the Basket Raffle this year with a custom-made rifle valued at \$4000-4500 as the marquis item.

Strategic Planning Committee: No report.

Student Affairs Committee: Chair Rebecca Haynie announced that 11 students, representing seven universities are presenting at the 53rd Annual Meeting - six oral presentations and four posters. Casey Williams organized the post-meeting student tour and will lead the tour to Comal Springs and federal fish hatchery in San Marcos.

Website Committee: Chair Ryan Wersal requested suggestions for online content for the APMS web site and reported that work is ongoing for members to pay for annual dues and annual meeting registration online.

AERF: The report was given during the General Program.

BASS: No report.

CAST: Representative Ryan Wersal reported that CAST accepted the APMS proposed Commentary Paper on “*Why Aquatic Plants Are Managed*”. A team is being assembled to draft and edit the paper that will ultimately be posted online and used to inform Congressional staff and legislative policy makers.

NALMS: Representative and current NALMS President Terry McNabb reported that APMS and NALMS are collaborating to share display space at each society’s annual meeting and encouraged members to visit the NALMS booth.

RISE: No report.

WSSA: Representative Cody Gray discussed that WSSA tasked APMS with developing an herbicide resistance management module for aquatics and that the special session on the Program for July 17 is a step toward that development. Gray expects to have a final draft completed by February 2014.

Jason Carlee motioned to accept the Committee and Special Representative reports. Craig Aguillard seconded the motion. The motion passed without dissenting vote.

Old Business: None

New Business: None

Harry Knight motioned to adjourn the Annual Business Meeting. Ken Manuel seconded the motion. The motion passed without dissenting vote.

The meeting adjourned at 4:50 p.m.

THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting

July 27, 2013

Westin Riverwalk Hotel

San Antonio, Texas

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Wednesday, July 17, 2013 following the 53rd Annual Meeting. President Mike Netherland called the meeting to order at 1:06 p.m.

Officers and Directors present at roll call were:

Mike Netherland, President
Cody Gray, President Elect
Rob Richardson, Vice President
Terry Goldsby, Immediate Past President
Sherry Whitaker, Treasurer
Jeff Schardt, Secretary
David Isaacs, Director
Larry McCord, Director
Michael Masser, Director
Rebecca Haynie, Director
Vernon Vandiver, Director
Joe Vassios, Director

Guests in attendance during portions of the meeting:

Craig Aguillard
Tommy Bowen
Mark Heilman
Deb Hofstra
Bill Torres

MINUTES

There were no Minutes to approve.

PRESIDENT'S REPORT

President Mike Netherland recognized new Board members and thanked all Board and Committee members for their work during the Annual Meeting. Netherland asked for Board input and to pass along any comments from members regarding the Program and venue for the 53rd Annual Meeting. There was one comment about reminding presenters, and screening requested talks, to focus on presenting data at the APMS Annual Meeting vs. sales information and opinions.

TREASURER'S REPORT

Treasurer Sherry Whitaker reported that there were 192 delegates and 16 guests in attendance. The scholastic endowment efforts raised \$7,040 from the raffle and \$2,554 from the silent auction for a total of \$9,594.

SECRETARY'S REPORT

No report.

EDITOR'S REPORT

No report.

Rob Richardson motioned the Board to accept the Officer Reports. Larry McCord seconded the motion. The motion passed without dissenting vote.

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: No report.

Bylaws and Resolutions Committee: No report.

Education and Outreach Committee: Cody Gray discussed that there was interest at the Regional Chapter meeting in expanding Lakeville to other states. Chair Jeff Schardt reiterated the amount of preparation and maintenance that goes into Lakeville and suggested that the Board first see the presentation on Plant Camp and Lakeville hands-on session scheduled for the Midyear APMS Board meeting before moving forward with Lakeville to other regions.

Exhibits Committee: Chair Craig Aguillard will send out Thank You letters to vendors and sponsors who participated in the 53rd Annual Meeting and will ask for suggestions for improving the experience.

There was discussion on canceling the Poster Reception to allow vendors to meet with Members for dinner during that period, or to move the Poster Reception to lunch on Tuesday from 12:00-2:00 pm. This would save delegates some funding expenses on the evening Poster Reception that would likely be more expensive than a lunch activity. Schardt pointed out that the Poster Reception starts at 6:00 pm and is scheduled to close at 7:30 – in time for delegates to go to dinner afterwards. People can eat as much or as little as they choose, and with the exception of the poster presenters, may leave before 7:30. Not all delegates are invited to dinner by vendors and attending the Poster Reception allows them to interact with other Members. Aguillard will forward this issue in his questionnaire to vendors and sponsors.

Finance Committee: No report.

Legislative Committee: No report.

Meeting Planning Committee: Chair Tommy Bowen thanked Meeting Manager Bill Torres for successfully running the meeting. Bowen, working with Treasures Whitaker, estimates an approximate \$37,500 profit from the meeting. Sponsor contributions were similar to 2012 at about \$52,000. Bowen asked Board members to provide him with suggestions to improve for the San Antonio meeting.

Bowen provided feedback on opportunities for improvement including: expanding the food menu provided at the continental breakfasts, and increasing the size of the Exhibit / Poster room. Bowen also asked for a meeting date for the Midyear Board meeting. Most agreed that the February 19, 2013 Midyear meeting was a little too close to the Annual Meeting. Most also agreed that holding the Midyear Board meeting during the week is preferred rather than meeting during the weekend. The Board agreed to meet on January 14, with travel days on the 13th and 15th for the Midyear Board meeting at the Hilton Savannah DeSoto.

Bowen reminded the Board that the 2016 Annual Meeting will be in the Midwest and asked the Board for suggestions of cities for Bowen and Bill Torres to explore for potential hotel sites. Suggestions at the meeting include Minneapolis, MN, Grand Rapids, Traverse City, and East Lansing, MI, and Milwaukee, WI. Terry Goldsby informed the Board that the Past Presidents also recommended that APMS lock into the Daytona Beach Hilton at \$149 for the 2017 Annual Meeting. Bowen suggested exploring Orlando as well. Torres has experience with the Orlando and Daytona venues so travel is expected to be minimal.

Tommy Bowen motioned the Board to approve the Meeting Planning Committee to pursue a 2017 Florida meeting venue, approving travel if needed to visit sites and bring a recommendation for Board consideration and approval at the January 2014 Midyear Board meeting for the 2017 Annual Meeting site. Michael Masser seconded the motion. The motion passed without dissent.

Tommy Bowen motioned the Board to approve the Meeting Planning Committee to pursue Annual Meeting venues and sign a contract three years out to save operating costs provided the hotel does not begin charging until the 2nd year out to limit APMS financial liability. Larry McCord seconded the motion. The motion passed without dissent.

Membership Committee: No report.

Nominating Committee: No report.

Past President's Advisory Committee: Chair Terry Goldsby reported that an update in the Operating Manual should be made instructing the current APMS President to attend the Past Presidents' luncheon since that president will report on discussions from the luncheon at the post-Annual Meeting Board meeting.

Attendees at the Regional Chapter breakfast recommended changing future meetings from a breakfast to a luncheon. Honorary Membership benefits were discussed with the Past Presidents who recommended waiving Annual Meeting registration fees for Honorary Members and spouse

for ensuing meetings. Travel costs would only be waived if the Honorary Member is an integral part of that year's Program activities. There may be only a few Honorary Members at each Annual Meeting, so this is not an economic issue.

Terry Goldsby motioned the Board to waive registration fees for Honorary Members and spouses who attend the Annual Meeting. Jeff Schardt seconded the motion. The motion passed without dissent.

There was also discussion regarding a paid executive director for APMS. Terry McNabb will explore NALMS activities on this issue and report back to APMS. Rather than being a revenue generating position, an APMS director would handle administrative issues for the Society. Rob Richardson was tasked to develop a template or outline for an APMS administrative director / administrative assistant listing criteria and duties as well as compensation for such a position.

Program Committee: Chair Cody Gray discussed potential subjects for the 2014 Program: crested floating heart and lyngbya, both of which are issues particularly in southeast region. Later in the Board meeting, Larry McCord discussed a session on AVM and eagle-related deaths associated with U.S. Army Corps of Engineers managed reservoirs on the South Carolina and Georgia border and lack of appropriate hydrilla management on the reservoirs.

Publications Committee: No report.

Regional Chapters Committee: The APMS Graduate Student Research Grant will be advertised in 2013 and awarded at the 2014 Annual Meeting. This needs to be coordinated with the Regional Chapters for contributions to the grant.

Scholastic Endowment Committee: No report.

Strategic Planning Committee: No report.

Student Affairs Committee: Chair Rebecca Haynie will continue to reach out to universities for participation at the Annual Meeting. There was good feedback from all of the students regarding the quality of their experience at the APMS Annual Meeting.

Website Committee: No report.

Student Director Report: No report.

AERF: No report.

BASS: No report.

CAST: No report.

NALMS: No report.

RISE: No report.

WSSA: Lee Van Wychen provided a Science Policy Director report via teleconference. There was discussion on U.S Army Corps of Engineers research funding, biofuel production related to giant reed and napiergrass, and NPDES status in the Farm Bill. No issues required APMS action at this time.

Terry Goldsby motioned the Board to approve the Committee and Special Representative Reports. Cody Gray seconded the motion. The motion passed without dissenting vote.

Old Business: Texas APMS attendance was good. Revenues were lower than usual for their meeting but that was expected.

New Business:

- 1) David Isaacs discussed that APMS needs to evaluate and fund worthy projects that have meaning to APMS members. The society is in good financial shape and it is time to fund worthy issues. Some subjects may be to: quantify the value of lands that may be lost if overwhelmed by invasive species, generate information on benefits of early detection and rapid response.
- 2) President Netherland tasked Board members to come to the Midyear Board meeting with potential topics for APMS to fund.
- 3) President Netherland also tasked Board members to consider consolidating APMS Committees to a smaller, more active number.

Terry Goldsby motioned the Board to adjourn. Larry McCord seconded the motion. The motion passed without dissenting vote.

The Board Meeting adjourned at 3:22 p.m.

**APMS Mid-Winter Board of Directors Meeting
Savannah, Georgia
January 14, 2014**

Report of the President

Michael D. Netherland

Welcome to Savannah and let me start my report by reiterating what an honor it is to serve as President of the APMS. To date, my responsibilities as President have largely focused on approving invoices, participating in WSSA Science Policy conference calls, working with Bill Torres to finalize the contract with our hotel, and working with Jeff Schardt on the WSSA Aquatic Herbicide Resistance Modules. I was able to attend the Mid-South APMS in Tunica, MS this fall, but was not able to attend the FAPMS due to the government shutdown or the SCAPMS due to an illness that prevented travel. I am slated to attend and present technical talks and APMS updates at the NEAPMS, MAPMS, and WAPMS this winter and spring. After discussions with Don Doggett, I will be the interim Awards Committee Chair until we can identify a permanent chair for this important Committee.

In looking at our finances, we are fiscally healthy, but should keep in mind that a strong year in the stock market accounts for some of our recent gains. I have set an ambitious agenda for our Mid-Winter BOD meeting and I look forward to this Board addressing several substantial issues and discussing how we should invest our resources in worthy efforts that further advance the mission of the APMS. In addition, the Mid-Winter BOD meeting is the time to make sure that all responsible committees are aware of their commitments for our annual meeting in July.

Respectfully

Michael D. Netherland

December 16, 2013

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

From: Sherry Whitaker

Subject: Report of the Treasurer

General and Scholastic Endowment Accounts.

Enclosure 1 is a summary of the General and Scholastic Endowment Accounts. All totals are as of the date of this report.

Investment Portfolio.

Enclosures 2 and 3 are the 3rd quarter (9/30/2013) investment statements of the General and Scholastic Endowment Investment accounts respectively. The Finance Committee will report on our investments.

2013 Income and Expense.

Enclosure 4 is a summary of income and expense for the period January 1, 2013 through December 16, 2013.

2014 Budget.

The preliminary budget (encl 5) for the period January 1, 2014 through December 31, 2014 estimates a net income of \$14,788.00.

Audit and Federal Return.

All APMS financial records and related information will be made available to Winston, Williams, and Creech, LLP to conduct an audit of our financial statements as of December 31, 2013. In addition, they will prepare our federal information return for the year ended December 31, 2013. I expect Winston, Williams, and Creech, LLP to issue their independent auditor's report and complete our information returns no later than March 15, 2014. The estimated fees for these services should not exceed \$6000.00.

Travel Expenses to Annual Meeting.

Expense	Annual
Hotel	* 0
Meals	\$60.00
Parking	\$84.00
Travel	\$800.00
Total	\$944.00

* Assumes comp. room and waive registration at annual meeting.

5 Enclosures

The Aquatic Plant Management Society, Inc.
General and Scholastic Endowment Accounts
December 16, 2013

General and Scholastic Endowment Accounts

General Account

Checking	51,699.96
Investment	<u>337,651.69</u>

Total General Account	389,351.65
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Scholastic Endowment Account

Checking	17,177.08
Investment	<u>69,870.63</u>

Total Scholastic Endowment Account	<u>87,047.71</u>
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Total General and Scholastic Endowment Accounts	<u><u>476,399.36</u></u>
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For the Account of: AQUATIC PLANT MANAGEMENT SOCIETY INC IMA

Account #540

Date: 09/30/2013



your financial partner for life

175 N LEROY ST
PO BOX 725
FENTON MI 48430
(810) 714-7610

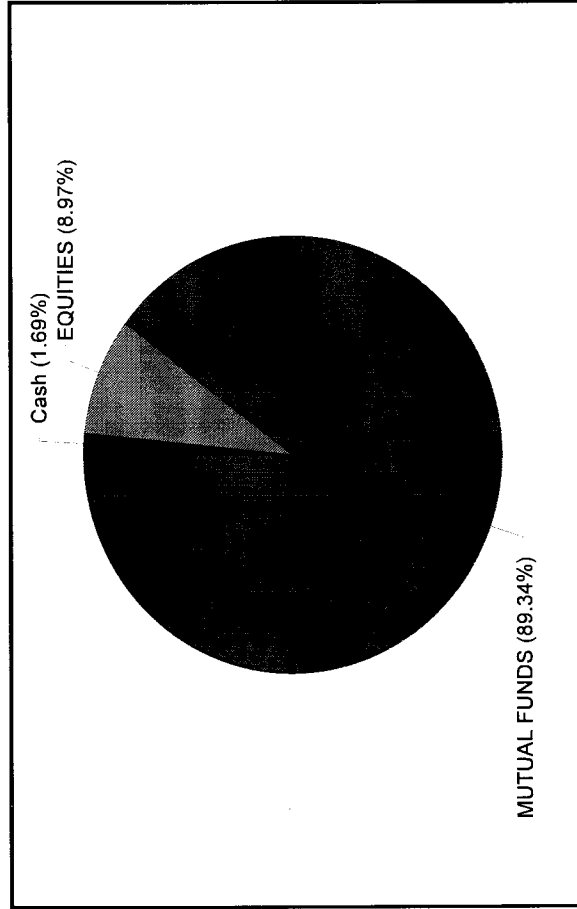
AQUATIC PLANT MANAGEMENT SOC INC
ATTN SHERRY WHITAKER TREASURER
PO BOX 821265
VICKSBURG MS 39182-1265

AQUATIC PLANT MANAGEMENT SOCIETY INC IMA

Account #: 540

Holding Summary On: 09/30/2013

Asset Segment	6/30/2013 Valuation	%	9/30/2013 Valuation	%	Change in Value (\$)
Cash	5,978.22	1.88	5,576.12	1.69	-402.10
EQUITIES	30,736.16	9.68	29,602.12	8.97	-1,134.04
MUTUAL FUNDS	280,792.51	88.44	294,870.78	89.34	14,078.27
Grand Total	317,506.89	100.00	330,049.02	100.00	12,542.13



For the Account of: AQUATIC PLANT MANAGEMENT SOCIETY INC
IMA

Account Number: 540

Date: 07/01/2013 to 09/30/2013

Account Summary

Asset Composition

	Market Value	% of Account
Cash	\$5,576.12	2%
EQUITIES	\$29,602.12	9%
MUTUAL FUNDS	\$294,870.78	89%
Accruals	\$85.04	0%
Grand Total	\$330,134.06	100%
Total Account Value	\$330,134.06	100%

Change in Account Value

	This Period	Year To Date
Starting Value	\$317,506.89	\$302,361.39
Deposits and Withdrawals	\$0.00	\$0.00
Dividends and Interest	\$322.99	\$1,069.54
Transfers	\$0.00	\$0.00
Change in Value of Investments	\$12,542.13	\$27,687.63
Ending Value on 09/30/2013	\$330,049.02	\$330,049.02
Total Change in Account Value	\$12,542.13	\$27,687.63
(Totals Include Deposits and Withdrawals)		
Total Accruals	\$85.04	\$85.04
Total Ending Value	\$330,134.06	\$330,134.06

Realized Gain or (Loss) Summary

	This Period	Year To Date
Short Term:	\$0.00	\$52.71
Long Term:	\$0.00	\$214.24

Date: 09/30/2013

Portfolio Asset Details

Shares	Cost	Unit Price	Market Value	% MV	Unrealized Gain/Loss	Est. Annual Income	Annual Yield
<u>Cash</u>							
	Cash			0.00	0.00		
MISC CASH EQUIV-TXBL							
	FED GOVT OBLIGATIONS SS #395		5,576.12	1.69			
	Total Cash		5,576.12	1.69			
<u>EQUITIES</u>							
STOCK - COMMON							
250.0000	NFJ	ALLIANZGI NFJ DIV INT & PREM STRATEGY FD	4,034.70	16.8400	4,210.00	1.28	175.30
150.0000	XOM	EXXON MOBIL CORP COMMON	4,257.26	86.0400	12,906.00	3.91	8,648.74
74.0000	PG	PROCTER & GAMBLE CO	3,767.59	75.5900	5,593.66	1.69	1,826.07
65.0000	SE	SPECTRA ENERGY	1,636.17	34.2300	2,224.95	0.67	588.78
100.0000	VZ	VERIZON COMMUNICATIONS INC	1,968.40	46.6750	4,667.51	1.42	2,699.11
639.0000		STOCK - COMMON Total	15,664.12		29,602.12	8.97	13,938.00
							1,297.34
							450.00
							10.69
							2.93
							3.18
							3.56
							4.54
							4.38
<u>MUTUAL FUNDS</u>							
MUTUAL FUNDS-TAXABLE							
289.6070	WGIFX	AMERICAN FDS-CAPITAL WORLD GROWTH & INCOME FD CI F2	2,639.65	42.3100	12,253.27	3.72	9,613.62
							284.06
							2.32
916.6860	ARTQX	ARTISAN M/C VALUE #1464	17,756.91	26.3400	24,145.51	7.31	6,388.60
							117.42
2,235.9440	DODIX	DODGE & COX INCOME #147	28,754.23	13.4900	30,162.89	9.14	1,408.66
							903.32
3,015.3760	FIIFX	FEDERATED INTERM CORP BOND #303	30,018.35	9.9900	30,123.59	9.13	105.24
							1,266.65
							4.20
4,695.2450	IVFIX	FEDERATED INTL STRATEGIC VALUE DIV #434	17,958.09	4.1300	19,391.35	5.88	1,433.26
							683.64
							3.53
3,839.1112	SVAIX	FEDERATED STRATEGIC VALUE DIVIDEND #662	19,029.58	5.5500	21,307.07	6.46	2,277.49
							754.80
							3.54
105.8400	FCNTX	FIDELITY CONTRAFUND #22	8,164.94	93.3000	9,874.86	2.99	1,709.92
							19.98
							0.20

Date: 09/30/2013

Portfolio Asset Details

Shares		Cost	Unit Price	Market Value	% MV	Unrealized Gain/Loss	Est. Annual Income	Annual Yield
MUTUAL FUNDS								
MUTUAL FUNDS-TAXABLE								
10,064,2810	LLDYX	LORD ABBETT SHORT DURATION INCOME CL I #1425	4.5600	45,893.13	13.90	-418.49	1,808.34	3.94
326,2470	TRBCX	T ROWE PRICE BLUE CHIP GR #93	57.2800	18,687.43	5.67	4,979.12	44.05	0.24
297,0460	PRIDX	T ROWE PRICE INT'L DISCOVERY #38	53.7200	15,957.30	4.84	2,510.91	151.49	0.95
182,9560	RPMGX	T ROWE PRICE MID CAP GR #64	71.6700	13,112.46	3.96	2,412.86	0.00	0.00
270,4940	PRNHX	T ROWE PRICE NEW HORIZONS #42	45.5000	12,307.49	3.73	3,249.34	0.00	0.00
239,4100	PRSVX	T ROWE PRICE SM CAP VAL #46	47.3800	11,343.24	3.45	2,460.22	131.67	1.16
2,830,1730	VFSTX	VANGUARD S/T INV GRADE #39	10.7100	30,311.19	9.16	-6.72	548.48	1.81
29,308,4162		MUTUAL FUNDS-TAXABLE Total		294,870.78	89.34	38,124.03	6,713.90	2.28
35,523,5362		Grand Total		330,049.02	100.00	52,062.03	8,011.80	2.43

For the Account of: AQUATIC PLANT MANAGEMENT SOCIETY INC IMA

Account #: 540

Date: From 07/01/2013 to 09/30/2013

Summary Statement of Transactions

Beginning Market Value
Ending Market Value

317,506.89
330,049.02

Cash Receipts

Principal Cash
Dividend - Ordinary

322.99

Cash Disbursements

Principal Cash
Fee payment

-725.09

Securities (Shares Only)

Dividend reinvest

236,341.00

Money Market Activity

Principal Cash
Purchase
Sale

-322.99
725.09
402.10

Principal Cash Total

For the Account of: AQUATIC PLANT MANAGEMENT SOCIETY INC...

Account Number: 540

Date: From 07/01/2013 to 09/30/2013

Statement of Transactions

Cash Receipts

Date	Dividend - Ordinary	Income Cash	Principal Cash
07/02/2013	Dividend - Ordinary of FED GOVT OBLIGATIONS SS #395	0.00	0.05
08/01/2013	Dividend - Ordinary on 100 shares of VERIZON COMMUNICATIONS INC	0.00	51.50
08/05/2013	Dividend - Ordinary of FED GOVT OBLIGATIONS SS #395	0.00	0.05
08/15/2013	Dividend - Ordinary on 74 shares of PROCTER & GAMBLE CO	0.00	44.51
09/04/2013	Dividend - Ordinary of FED GOVT OBLIGATIONS SS #395	0.00	0.05
09/09/2013	Dividend - Ordinary on 65 shares of SPECTRA ENERGY	0.00	19.83
09/10/2013	Dividend - Ordinary on 150 shares of EXXON MOBIL CORP COMMON	0.00	94.50
09/26/2013	Dividend - Ordinary on 250 shares of ALLIANZGI NFJ DIV INT & PREM STRATEGY FD	0.00	112.50
	Dividend - Ordinary Total	0.00	322.99

Cash Disbursements

Date	Fee payment	Income Cash	Principal Cash
07/10/2013	Fees paid from account of \$725.09	0.00	-725.09

Securities (Shares Only)

Date	Dividend reinvest	Income Cash	Principal Cash	Investment Cost Basis
07/02/2013	Reinvest Dividend - Ordinary, received 8,439 shares @ 3.870127 on 4,665.304 shares of FEDERATED INTL STRATEGIC VALUE DIV #434	0.00	0.00	32.66
07/02/2013	Reinvest Dividend - Ordinary, received 21.55 shares @ 5.459861 on 3,795.564 shares of FEDERATED STRATEGIC VALUE DIVIDEND #662	0.00	0.00	117.66

For the Account of: AQUATIC PLANT MANAGEMENT SOCIETY INC...

Account Number: 540

Date: From 07/01/2013 to 09/30/2013

Statement of Transactions

Securities (Shares Only)

Date	Dividend reinvest	Income Cash	Principal Cash	Investment Cost Basis
07/02/2013	Reinvest Dividend - Ordinary, received 3.951 shares @ 10.660592 on 2,817.689 shares of VANGUARD S/T INV GRADE #39	0.00	0.00	42.12
07/03/2013	Reinvest Dividend - Ordinary, received 10.49 shares @ 9.950429 on 2,983.176 shares of FEDERATED INTERM CORP BOND #303	0.00	0.00	104.38
07/03/2013	Reinvest Dividend - Ordinary, received 33.237 shares @ 4.559978 on 9,963.872 shares of LORD ABBETT SHORT DURATION INCOME CL I #1425	0.00	0.00	151.56
08/02/2013	Reinvest Dividend - Ordinary, received 9.033 shares @ 5.620503 on 3,817.114 shares of FEDERATED STRATEGIC VALUE DIVIDEND #662	0.00	0.00	50.77
08/02/2013	Reinvest Dividend - Ordinary, received 4.65 shares @ 4.019355 on 4,673.743 shares of FEDERATED INTL STRATEGIC VALUE DIV #434	0.00	0.00	18.69
08/02/2013	Reinvest Dividend - Ordinary, received 4.171 shares @ 10.690482 on 2,821.64 shares of VANGUARD S/T INV GRADE #39	0.00	0.00	44.59
08/05/2013	Reinvest Dividend - Ordinary, received 10.608 shares @ 10.010370 on 2,993.666 shares of FEDERATED INTERM CORP BOND #303	0.00	0.00	106.19
08/05/2013	Reinvest Dividend - Ordinary, received 33.305 shares @ 4.559976 on 9,997.109 shares of LORD ABBETT SHORT DURATION INCOME CL I #1425	0.00	0.00	151.87
09/04/2013	Reinvest Dividend - Ordinary, received 16.852 shares @ 3.969855 on 4,678.393 shares of FEDERATED INTL STRATEGIC VALUE DIV #434	0.00	0.00	66.90
09/04/2013	Reinvest Dividend - Ordinary, received 12.964 shares @ 5.459735 on 3,826.147 shares of FEDERATED STRATEGIC VALUE DIVIDEND #662	0.00	0.00	70.78
09/04/2013	Reinvest Dividend - Ordinary, received 4.362 shares @ 10.651077 on 2,825.811 shares of VANGUARD S/T INV GRADE #39	0.00	0.00	46.46

For the Account of: AQUATIC PLANT MANAGEMENT SOCIETY INC...

Account Number: 540

Date: From 07/01/2013 to 09/30/2013

Statement of Transactions

Securities (Shares Only)

Date	Dividend reinvest	Income Cash	Principal Cash	Investment Cost Basis
09/05/2013	Reinvest Dividend - Ordinary, received 11.102 shares @ 9.900018 on 3,004,274 shares of FEDERATED INTERM CORP BOND #303	0.00	0.00	109.91
09/05/2013	Reinvest Dividend - Ordinary, received 33.867 shares @ 4.540113 on 10,030,414 shares of LORD ABBETT SHORT DURATION INCOME CL I #1425	0.00	0.00	153.76
09/25/2013	Reinvest Dividend - Ordinary, received 1.331 shares @ 42.870023 on 288,276 shares of AMERICAN FDS-CAPITAL WORLD GROWTH & INCOME FD CIF2	0.00	0.00	57.06
09/30/2013	Reinvest Dividend - Ordinary, received 16.429 shares @ 13.510256 on 2,219,515 shares of DODGE & COX INCOME #147	0.00	0.00	221.96
	Dividend reinvest Total	0.00	0.00	1,547.32

Money Market Activity

Date	Purchase	Income Cash	Principal Cash	Investment Cost Basis
07/02/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-0.05	0.05
08/01/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-51.50	51.50
08/05/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-0.05	0.05
08/15/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-44.51	44.51
09/04/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-0.05	0.05
09/09/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-19.83	19.83
09/10/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-94.50	94.50

For the Account of: AQUATIC PLANT MANAGEMENT SOCIETY INC...

Account Number: 540

Date: From 07/01/2013 to 09/30/2013

Statement of Transactions

Money Market Activity

Date	Purchase	Income Cash	Principal Cash	Investment Cost Basis
09/26/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-112.50	112.50
	Purchase Total	0.00	-322.99	322.99
Date	Sale	Income Cash	Principal Cash	Investment Cost Basis
07/10/2013	Automatically Generated Sale of FED GOVT OBLIGATIONS SS #395	0.00	725.09	-725.09
	Money Market Activity Total	0.00	402.10	-402.10
	Grand Total	0.00	0.00	1,145.22

For the Account of: AQUATIC PLANT MGMT SOC INC ENDOWMENT IMA

Account #550

Date: 09/30/2013



your financial partner for life

175 N LEROY ST
PO BOX 725
FENTON MI 48430
(810) 714-7610

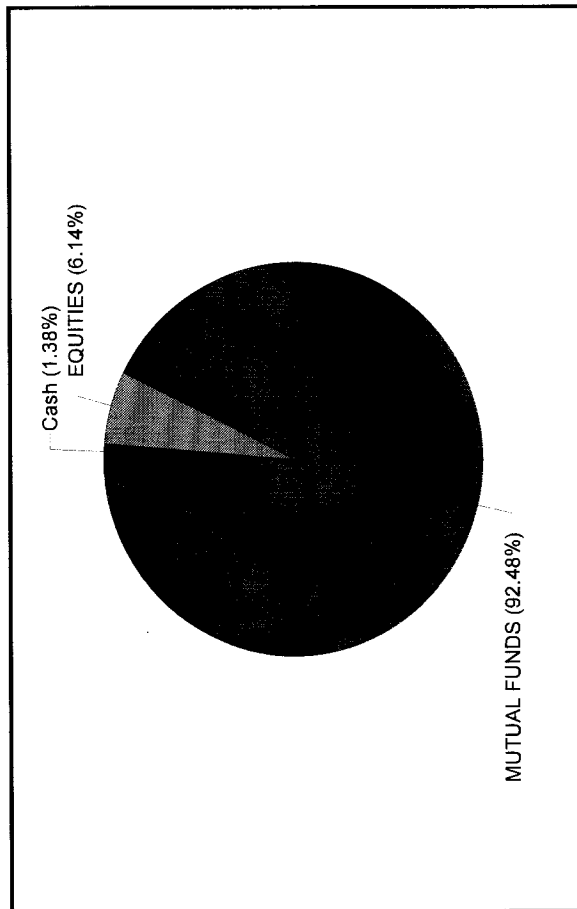
AQUATIC PLANT MANAGEMENT ENDOWMENT
ATTN SHERRY WHITAKER TREASURER
PO BOX 821265
VICKSBURG MS 39182-1265

AQUATIC PLANT MGMT SOC INC ENDOWMENT IMA

Account #: 550

Holding Summary On: 09/30/2013

Asset Segment	6/30/2013 Valuation	%	9/30/2013 Valuation	%	Change in Value (\$)
Cash	984.04	1.50	946.65	1.38	-37.39
EQUITIES	4,212.50	6.42	4,210.00	6.14	-2.50
MUTUAL FUNDS	60,426.35	92.08	63,386.48	92.48	2,960.13
Grand Total	65,622.89	100.00	68,543.13	100.00	2,920.24



For the Account of: AQUATIC PLANT MGMT SOC INC ENDOWMENT
IMA

Account Number: 550

Date: 07/01/2013 to 09/30/2013

Account Summary

Asset Composition

	Market Value	% of Account
Cash	\$946.65	1%
EQUITIES	\$4,210.00	6%
MUTUAL FUNDS	\$63,386.48	93%
Accruals	\$32.16	0%
Grand Total	\$68,575.29	100%

Total Account Value

\$68,575.29

100%

Change in Account Value

	This Period	Year To Date
Starting Value	\$65,622.89	\$61,675.64
Deposits and Withdrawals	\$0.00	\$0.00
Dividends and Interest	\$112.53	\$450.16
Transfers	\$0.00	\$0.00
Change in Value of Investments	\$2,920.24	\$6,867.49
Ending Value on 09/30/2013	\$68,543.13	\$68,543.13
Total Change in Account Value	\$2,920.24	\$6,867.49
(Totals Include Deposits and Withdrawals)		

Total Accruals

\$32.16

\$32.16

Total Ending Value

\$68,575.29

\$68,575.29

Realized Gain or (Loss) Summary

	This Period	Year To Date
Short Term:	\$0.00	\$5.35
Long Term:	\$0.00	\$56.87

For the Account of: AQUATIC PLANT MGMT SOC INC ENDOWMEN...

Account Number: 550
Date: 09/30/2013

Portfolio Asset Details

Shares	Cost	Unit Price	Market Value	% MV	Unrealized Gain/Loss	Est. Annual Income	Annual Yield
<u>Cash</u>							
	0.00		0.00	0.00			
MISC CASH EQUIV-TXBL							
	946.65		946.65	1.38			
	946.65		946.65	1.38			
	Total Cash						
<u>EQUITIES</u>							
STOCK - COMMON							
250.0000	4,034.70	16.8400	4,210.00	6.14	175.30	450.00	10.69
	ALLIANZGI NFJ DIV INT & PREM STRATEGY FD						
<u>MUTUAL FUNDS</u>							
MUTUAL FUNDS-TAXABLE							
226.0000	4,521.66	26.3400	5,952.84	8.68	1,431.18	28.95	0.49
	ARTISAN M/C VALUE #1464						
451.2860	6,094.96	13.4900	6,087.84	8.87	-7.12	182.32	2.99
	DODGE & COX INCOME #147						
623.3490	6,244.55	9.9900	6,227.27	9.07	-17.28	261.85	4.20
	FEDERATED INTERM CORP BOND #303						
1,649.4690	6,255.79	4.1300	6,812.32	9.93	556.53	240.16	3.53
	FEDERATED INTL STRATEGIC VALUE DIV #434						
1,527.7223	7,445.37	5.5500	8,478.83	12.38	1,033.46	300.36	3.54
	FEDERATED STRATEGIC VALUE DIVIDEND #662						
58.3510	4,490.92	93.3000	5,444.15	7.94	953.23	11.02	0.20
	FIDELITY CONTRAFUND #22						
1,381.3560	6,357.36	4.5600	6,298.97	9.19	-58.39	248.19	3.94
	LORD ABBETT SHORT DURATION INCOME CL I #1425						
125.7980	4,432.14	45.5000	5,723.81	8.36	1,291.67	0.00	0.00
	T ROWE PRICE NEW HORIZONS #42						
47.0490	6,013.84	155.0200	7,293.52	10.64	1,279.68	140.39	1.92
	VANGUARD INDEX 500 #40						
473.1030	5,100.03	10.7100	5,066.93	7.42	-33.10	91.70	1.81
	VANGUARD S/T INV GRADE #39						
6,563.4833	56,956.62		63,386.48	92.48	6,429.86	1,504.94	2.37
	MUTUAL FUNDS-TAXABLE Total						
7,760.1333	61,937.97		68,543.13	100.00	6,605.16	1,955.03	2.85
	Grand Total						

For the Account of: AQUATIC PLANT MGMT SOC INC ENDOWMENT IMA

Account #: 550

Date: From 07/01/2013 to 09/30/2013

Summary Statement of Transactions

Beginning Market Value	65,622.89
Ending Market Value	68,543.13

Cash Receipts

Principal Cash	
Dividend - Ordinary	112.53

Cash Disbursements

Principal Cash	
Fee payment	-149.92

Securities (Shares Only)

Dividend reinvest	53,910,000
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Money Market Activity

Principal Cash	
Purchase	-112.53
Sale	149.92
Principal Cash Total	37.39

For the Account of: AQUATIC PLANT MGMT SOC INC ENDOWMEN...

Account Number: 550

Date: From 07/01/2013 to 09/30/2013

Statement of Transactions

Cash Receipts

Date	Dividend - Ordinary	Income Cash	Principal Cash
07/02/2013	Dividend - Ordinary of FED GOVT OBLIGATIONS SS #395	0.00	0.01
08/05/2013	Dividend - Ordinary of FED GOVT OBLIGATIONS SS #395	0.00	0.01
09/04/2013	Dividend - Ordinary of FED GOVT OBLIGATIONS SS #395	0.00	0.01
09/26/2013	Dividend - Ordinary on 250 shares of ALLIANZGI NFJ DIV INT & PREM STRATEGY FD	0.00	112.50
	Dividend - Ordinary Total	0.00	112.53

Cash Disbursements

Date	Fee payment	Income Cash	Principal Cash
07/10/2013	Fees paid from account of \$149.92	0.00	-149.92

Securities (Shares Only)

Date	Dividend reinvest	Income Cash	Principal Cash	Investment Cost Basis
07/02/2013	Reinvest Dividend - Ordinary, received 2.964 shares @ 3.869771 on 1,638.951 shares of FEDERATED INTL STRATEGIC VALUE DIV #434	0.00	0.00	11.47
07/02/2013	Reinvest Dividend - Ordinary, received 8.575 shares @ 5.460058 on 1,510.393 shares of FEDERATED STRATEGIC VALUE DIVIDEND #662	0.00	0.00	46.82
07/02/2013	Reinvest Dividend - Ordinary, received 0.661 shares @ 10.665658 on 471.016 shares of VANGUARD S/T INV GRADE #39	0.00	0.00	7.05
07/03/2013	Reinvest Dividend - Ordinary, received 2.169 shares @ 9.949285 on 616.692 shares of FEDERATED INTERM CORP BOND #303	0.00	0.00	21.58
07/03/2013	Reinvest Dividend - Ordinary, received 4.562 shares @ 4.559404 on 1,367.575 shares of LORD ABBETT SHORT DURATION INCOME CL I #1425	0.00	0.00	20.80

For the Account of: AQUATIC PLANT MGMT SOC INC ENDOWMEN...

Account Number: 550

Date: From 07/01/2013 to 09/30/2013

Statement of Transactions

Securities (Shares Only)

Date	Dividend reinvest	Income Cash	Principal Cash	Investment Cost Basis
08/02/2013	Reinvest Dividend - Ordinary, received 3.595 shares @ 5.618915 on 1,518.968 shares of FEDERATED STRATEGIC VALUE DIVIDEND #662	0.00	0.00	20.20
08/02/2013	Reinvest Dividend - Ordinary, received 1.634 shares @ 4.020808 on 1,641.915 shares of FEDERATED INTL STRATEGIC VALUE DIV #434	0.00	0.00	6.57
08/02/2013	Reinvest Dividend - Ordinary, received 0.697 shares @ 10.688666 on 471.677 shares of VANGUARD S/T INV GRADE #39	0.00	0.00	7.45
08/05/2013	Reinvest Dividend - Ordinary, received 2.193 shares @ 10.009120 on 618.861 shares of FEDERATED INTERM CORP BOND #303	0.00	0.00	21.95
08/05/2013	Reinvest Dividend - Ordinary, received 4.571 shares @ 4.559177 on 1,372.137 shares of LORD ABBETT SHORT DURATION INCOME CL I #1425	0.00	0.00	20.84
09/04/2013	Reinvest Dividend - Ordinary, received 5.92 shares @ 3.969595 on 1,643.549 shares of FEDERATED INTL STRATEGIC VALUE DIV #434	0.00	0.00	23.50
09/04/2013	Reinvest Dividend - Ordinary, received 5.159 shares @ 5.460361 on 1,522.563 shares of FEDERATED STRATEGIC VALUE DIVIDEND #662	0.00	0.00	28.17
09/04/2013	Reinvest Dividend - Ordinary, received 0.729 shares @ 10.644719 on 472.374 shares of VANGUARD S/T INV GRADE #39	0.00	0.00	7.76
09/05/2013	Reinvest Dividend - Ordinary, received 2.295 shares @ 9.899782 on 621.054 shares of FEDERATED INTERM CORP BOND #303	0.00	0.00	22.72
09/05/2013	Reinvest Dividend - Ordinary, received 4.648 shares @ 4.539587 on 1,376.708 shares of LORD ABBETT SHORT DURATION INCOME CL I #1425	0.00	0.00	21.10
09/24/2013	Reinvest Dividend - Ordinary, received 0.222 shares @ 157.567568 on 46.827 shares of VANGUARD INDEX 500 #40	0.00	0.00	34.98

For the Account of: AQUATIC PLANT MGMT SOC INC ENDOWMEN...

Account Number: 550

Date: From 07/01/2013 to 09/30/2013

Statement of Transactions

Securities (Shares Only)

Date	Dividend reinvest	Income Cash	Principal Cash	Investment Cost Basis
09/30/2013	Reinvest Dividend - Ordinary, received 3.316 shares @ 13.510253 on 447.97 shares of DODGE & COX INCOME #147	0.00	0.00	44.80
	Dividend reinvest Total	0.00	0.00	367.76

Money Market Activity

Date	Purchase	Income Cash	Principal Cash	Investment Cost Basis
07/02/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-0.01	0.01
08/05/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-0.01	0.01
09/04/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-0.01	0.01
09/26/2013	Automatically Generated Purchase of FED GOVT OBLIGATIONS SS #395	0.00	-112.50	112.50
	Purchase Total	0.00	-112.53	112.53

Date	Sale	Income Cash	Principal Cash	Investment Cost Basis
07/10/2013	Automatically Generated Sale of FED GOVT OBLIGATIONS SS #395	0.00	149.92	-149.92
	Money Market Activity Total	0.00	37.39	-37.39
	Grand Total	0.00	0.00	330.37

The Aquatic Plant Management Society, Inc.

Income and Expense Report

Jan 1 - Dec 16, 13

Ordinary Income/Expense

Income

Annual Meeting Income

Contributions	52,472.50
Delegate 1-Day Registration	1,300.00
Delegate Pre-Registration	28,600.00
Delegate Registration	4,620.00
Event Tickets	205.00
Exhibit Fees	18,900.00
Guest Pre-Registration	2,080.00
Student Registraion	375.00
Total Annual Meeting Income	108,552.50

Education/Outreach Income 2,800.00

Journal Income

Page Fees	9,145.00
Subscriptions	7,800.00
Total Journal Income	16,945.00

Membership Income

Individual	16,925.00
Student	200.00
Sustaining	7,500.00
Total Membership Income	24,625.00

Scholastic Endowment Income

Contributions	356.96
Graduate Assistantship	13,000.00
Raffle & Silent Auction	9,534.00
Total Scholastic Endowment Income	22,890.96

Total Income **175,813.46**

Expense

American Express Annual Fee	120.00
Annual Meeting Expense	
Audio Visual Equipment	4,650.00
Entertainment	315.00
Guest Tour	2,460.00
Host Chapter Reimbursement	5,463.87
Invited Speaker	500.00
Poster Boards	334.95
Program	1,322.50
Shipping of Materials	65.18
Signs	1,146.43

The Aquatic Plant Management Society, Inc. Income and Expense Report

	<u>Jan 1 - Dec 16, 13</u>
Student Tour	145.23
Annual Meeting Expense - Other	55,206.12
Total Annual Meeting Expense	<u>71,609.28</u>
 APMS Blog	 960.00
Awards	
Plaques/Certificates	1,501.43
Poster Award	100.00
Total Awards	<u>1,601.43</u>
 Contributions	 250.00
Corporation Annual Report Fee	61.25
Credit Card Merchant Processing	
Card Fees	3,935.68
Terminal/Printer	443.81
Credit Card Merchant Processing - C	321.06
Total Credit Card Merchant Processing	<u>4,700.55</u>
 Dues	
AERF	1,000.00
CAST	1,500.00
RISE	500.00
WSSA	6,212.00
Total Dues	<u>9,212.00</u>
 Education/Outreach	 3,000.00
Insurance	
Board of Dir. & Gen. Liability	2,024.00
Commercial Bond	222.86
Total Insurance	<u>2,246.86</u>
 Journal Expense	
Editing	490.31
Editor Stipend	4,000.00
Printing & Postage	4,073.14
Journal Expense - Other	1,416.86
Total Journal Expense	<u>9,980.31</u>
 Meeting Planner	
Current Year Meeting	2,088.36
Meeting 2 years out	1,299.45
Total Meeting Planner	<u>3,387.81</u>
 Postal Service	
Post Office Box Fee	140.00

The Aquatic Plant Management Society, Inc.
Income and Expense Report

	Jan 1 - Dec 16, 13
Postage	<u>212.80</u>
Total Postal Service	<u>352.80</u>
 Professional Fees	
Accounting	<u>5,316.79</u>
Total Professional Fees	<u>5,316.79</u>
 Scholastic Endowment Expense	
Graduate Assistantship	20,000.00
Reverse Raffle	1,262.77
Student Books	636.52
Student Poster Award	500.00
Student Presentation Award	<u>600.00</u>
Total Scholastic Endowment Expense	<u>22,999.29</u>
 Supplies	330.73
Travel	
Board Member Travel to Meetings	<u>545.65</u>
Total Travel	<u>545.65</u>
 Website	
Administration	<u>5,375.00</u>
Total Website	<u>5,375.00</u>
 Winter Board Meeting	
Meals	1,226.30
Travel	971.64
Winter Board Meeting - Other	<u>1,850.25</u>
Total Winter Board Meeting	<u>4,048.19</u>
 Total Expense	<u>146,097.94</u>
 Net Ordinary Income	<u>29,715.52</u>
 Net Income	<u><u>29,715.52</u></u>

The Aquatic Plant Management Society, Inc.
Preliminary Budget
January through December 2014

Income/Expense

Income

Annual Meeting Income	107,850.00
Journal Income	17,000.00
Membership Income	20,000.00
Scholastic Endowment Income	22,000.00
Total Income	166,850.00

Expense

Annual Meeting Expense	75,000.00
Awards	1,500.00
Contributions	2,000.00
Dues	9,212.00
Fees	4,000.00
Insurance	2,300.00
Journal Expense	16,000.00
Postage and Shipping	400.00
Printing and Reproduction	150.00
Professional Fees	6,000.00
Scholastic Endowment Expense	22,000.00
Supplies	500.00
Travel	3,000.00
Website	6,000.00
Winter Board Meeting	4,000.00
Total Expense	152,062.00

Net Income	14,788.00
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**Secretary Report
Mid-year Board of Directors Meeting, APMS
January 14, 2014
Hilton Savannah DeSoto, Savannah, Georgia**

Submitted by: Jeffrey D. Schardt

The following tasks have been completed since the San Antonio Post-conference Board Meeting

Database and Website Updates:

I mailed welcome letters and the latest Journal issue to 14 new members that joined APMS since the 2013 Annual Meeting. Four are students who presented papers or posters at the meeting and received one free year APMS Membership in return. Current estimated Membership as of December 31, 2013 is presented in the table to the right. This reflects dues payment through 2012.

Category	Number
Active	253
Honorary	20
Student	32
Sustaining	17
Sub-Total	322
Subscription	54
Total	376

New Members for 2013-2014

#	Name	State	Date Joined	Type	ID
01	Brad Vollmar	Texas	07-16-13	Individual	1965
02	Stan Smith	Texas	07-15-13	Individual	1966
03	William Wingo	Texas	07-14-13	Individual	1967
04	Robynn Shannon	West Virginia	07-29-13	Individual	1968
05	Bradley Bartelme	Georgia	07-14-13	Student	1969
06	Elizabeth Edgerton	Texas	07-14-13	Student	1970
07	Hector Fileto-Perez	Mexico	07-14-13	Student	1971
08	Kristy Woodard	Texas	07-14-13	Student	1972
09	Florence Oxley	Texas	08-03-13	Student	1973
10	Janie Civile	Washington	09-09-13	Individual	1974
11	Clay Britton	North Carolina	10-21-13	Individual	1975
12	Mike Boydston	Louisiana	12-18-13	Individual	1976
13	Allie Cozad	Louisiana	12-18-13	Individual	1977
14	Timothy Smith	Arkansas	12-27-13	Sustaining	1978

Membership Invoices: Sustaining Membership invoices and letters including information on APMS financial status and accomplishments for 2013 were mailed to 16 previous Sustaining Members and one entity that requested Sustaining Membership on January 2, 2014. Invoices for 2014 Active and Student Membership dues were also mailed on January 2 and dues payments are now being received by the Treasurer and forwarded to the Secretary for posting on the Membership database.

PLMA Letters: Thank-you letters were sent on January 9, 2014 to 10 members of the Professional Lake Management Alliance (PLMA) for their financial contributions to the APMS education/outreach and student scholarship initiatives. The letter addressed APMS programs that education and scholarship contributions support, and the contributions to the University of Florida to further the Plant Camp and Lakeville initiatives. A thank-you letter was also sent to Jim Schmidt of Applied Biochemists-Lonza for continued support through the PLMA Program. PLMA members contributed \$1,900 to APMS for 2013 for a total of more than \$38,300 since the inception of the program.

2014 Budget: As outlined in the APMS Operating Manual, I am submitting the attached budget estimating expenditures for the Office of the Secretary for 2014. I have included a breakdown of expenditures from July 28, 2013 at the close of the Annual Meeting through December 31, 2013 for the Office of the Secretary.

Secretary Expenditures - July 18, 2013 – December 31, 2013

Date	Shipping	Travel	Supplies	Amount	Total
08-06-13	new member journals and welcome			30.96	30.96
09-??-13	new member journal and welcome			2.92	33.88
11-01-13	new member journal and welcome			2.92	36.80
12-23-13	new member journals – stamps			115.44	152.24
12-27-13			envelopes / ink	81.30	233.54
01-03-14	Stamps / overseas invoice postage			19.10	252.64

Proposed Budget for 2014 - Office of the Secretary

<u>Item</u>	<u>Estimated Cost</u>
Shipping and Mailing:	
Journal claims, invoices, letters, meeting materials, stamps, etc.	\$300
Office Supplies:	
BOD and annual meeting supplies, envelopes	\$50
Secretary Travel Expenses:	
hotel, meals, gasoline	\$ 1,088
TOTAL	\$1,438

Expense	Mid-year	Annual
hotel	271	677
meals	30	30
travel	40	40
Total	\$341	\$747

THE AQUATIC PLANT MANAGEMENT SOCIETY, Incorporated

POST OFFICE BOX 821265
VICKSBURG, MS 39182-1265 U.S.A.
www.apms.org

December 30, 2013

To: The APMS Board of Directors

From: Jim Schmidt, Chairman – APMS Bylaws and Resolutions Committee

Committee Members: Ken Manuel, Toni Pennington, Lee Ann Glomski and David Isaacs

RE: Bylaws and Resolutions Committee Report

Dear President Netherland, Officers & Directors:

Bylaws

1. Proposed amendments to Article XI, Section C of the APMS Bylaws relating to APMS office eligibility for APMS were passed at the July 2013 annual business meeting in San Antonio, TX. This has been incorporated into the updated document. My apologies for being tardy getting this to our website. Hopefully, the revision will post to the website before the Winter Board Meeting.
2. While no formal Bylaws amendments have been put forth by the Board, it is correctly noted in the Board action notes that at least a couple changes were discussed at the post conference meeting in July. These include:
 - a) Providing the Board of Directors authority to establish membership dues rather than the current system of membership approval at the annual meeting.
 - b) Consider eliminating (or consolidating) “dormant” committees.
3. It is the recommendation of this committee that the Board of Directors consider a “legal” review of current Bylaws. This would ensure our structure and operational functions meet any applicable laws associated with organizations of our nature. This would also afford us the opportunity to obtain some suggestions as to how to go about streamlining Bylaws content (something discussed in general several times). There have been numerous changes to this document over the past 20+ years, so it would be prudent to make sure nothing critical has been added or deleted that may have put us out of compliance. Since we are incorporated within the state of Florida, our suggestion would be to utilize counsel there. Any suggestions or recommendations?

Resolutions & Petitions

To date, no Resolutions or Petitions have come to the attention of this committee. I would expect there are additional qualified candidates for Honorary Membership within our ranks, as this has become almost an annual occurrence in recent years. The Board and general membership is encouraged to continue to be diligent in identifying potential candidates to ensure no deserving colleague is missed, as we know it can be difficult to get people to the annual meeting once they have officially retired.

Operating Manual

It was noted from the Board Notes and Actions that this document is under review by Past President Goldsby. A number of procedural items and suggestions have been deferred to the Mid-winter Board Meeting. We need to continue to ensure these decisions and policies get picked up in the Ops Manual, as it is a living document.

Unfortunately, I will not be attending the Midwinter meeting. It would be a good change in climate, as I woke up to -15°F today - and that's off the thermometer – not the windchill chart. Have a productive meeting.

Respectfully,

Jim Schmidt

Jim Schmidt
Chair, APMS Bylaws Committee

APMS Midyear Board of Directors Meeting
Hilton Savannah DeSoto
January 14, 2014
Savannah, GA

Education and Outreach Committee Report
Submitted by: Jeff Schardt

Plant Camp and Lakeville

UF personnel will provide an update of Plant Camp and a demonstration of the Lakeville activity for the Board to contemplate expanding/funding either or both of these programs to other states or regions of the country, especially where APMS Chapters show an interest in developing the activity to meet regional needs. UF is scheduled for about an hour on the Agenda. Katie Walters will provide an overview of Plant Camp. APMS Board Members will participate in the Lakeville activity with instruction and refereeing provided by Kitty Lane. APMS and AERF sponsored Kitty Lane to demonstrate Lakeville at 10 Florida schools - a report to APMS and the schedule at the schools is attached. Also attached is a Budget Summary for APMS to consider - for UF to develop various components of a Lakeville activity for different parts of the country.

Resistance Management

Jeff Schardt and Mike Netherland drafted a white paper of considerations for herbicide resistance management in aquatic plant control venues from information presented at the special session on resistance management at the Annual Meeting in San Antonio. Draft 1 of the document was sent to Cody Gray, Carlton Layne, Kurt Getsinger, Terry Goldsby, Greg MacDonald, Rob Richardson, John Madsen, Tyler Koschnick, Mark Heilman, John Rodgers, and Bill Ratajczyk. Comments received were incorporated into Draft 2, attached. The white paper is intended as supporting information for PowerPoint modules that are being assembled for the WSSA web site on herbicide resistance management to provide perspectives on aquatic plant management. Two of three PowerPoint Lesson modules are drafted and will be presented at the midyear Board Meeting.

September 9, 2013

Memorandum of Understanding – FINAL REPORT

To: Mike Netherland, President (mdnether@ufl.edu)
Sherry Whitaker, Treasurer (sherry.l.whitaker@usace.army.mil)
Aquatic Plant Management Society

From: Katie Walters, Education Initiative Coordinator (katie716@ufl.edu)
Catherine (Kitty) Keough Lane, Outreach Coordinator (kitty.lane@ufl.edu)
University of Florida-IFAS Center for Aquatic and Invasive Plants (UF-IFAS CAIP)

Re: Partnership agreement for Lakeville demonstrations in Florida schools

This is to confirm that, as of April 4, 2013, Kitty Lane completed the task of demonstrating “Lakeville – A Natural Resource Management Activity” in five schools, to a total of 8 teachers and 533 students. This task was sponsored by the APMS for a total of \$5,000.

Method:

The Lakeville Unit contains three separate teaching sessions that can be used as stand-alone activities or presented in sequence for background information and reinforcement. Kitty Lane works with the teacher to assess students' needs and adjusts the demonstration accordingly. Ms. Lane demonstrates between 3 and 6 times per teacher, during different class periods. The goal is to have the teacher become comfortable enough with the activity to take an increasingly active role in the demonstration with Ms. Lane there to provide guidance. The teacher is able to identify access points to show local relevancy and differentiation to include different learning styles. The demonstrations usually spike the curiosity of additional teachers and administrators who are invited to attend. After the demonstrations, Ms. Lane leaves a “Lakeville Kit” with the teacher that includes all necessary materials to teach the full 3 sessions of the unit.

CAIP program assistant Lynda Dillon works with Kitty Lane on implementation of Lakeville demonstrations and all record keeping. Ms. Dillon processes and mails all materials needed prior to presentation. School visits are tracked in a spreadsheet, along with documentation of the number of students and teachers served and any other relevant details.

Results and Discussion:

The goal of the Lakeville Unit is to teach students about the impacts of invasive species on their local ecosystems while preparing them for their role as future citizens and environmental stewards. To judge how well we are reaching that goal, all students complete both a pre- and post-test to measure gains in knowledge. Through mini-grants from APMS, AERF, and FAPMS, Lakeville has been presented to over a dozen Florida schools. The following are the results from all of the schools where demonstrations occurred after the pre- and post-tests were developed (9 schools).

Overall, every school showed an increase in knowledge on the definitions of native, non-native, and invasive, on why non-native plants can become invasive, and the need for invasive plant and animal

management. The test has 9 questions. The majority of students answered 6 of them correctly on the pre-test, and all of them correctly on the post-test.

The most dramatic percent gain in knowledge was on the need to manage invasive plants. Students overall showed a 57% gain. Another large percent gain was on the correct definition of an invasive plant – with a 48% gain. The smallest percent gain, 8%, was on the definition of a native plant but this was because a large majority of students got it correct on both tests. The rest of the questions showed percent gains ranging from approximately 16-22%.

We are currently creating a survey to assess how we are meeting our goal to inspire and support the teachers, but based on verbal feedback to Ms. Lane and PLANT CAMP 2013 evaluations, teachers are much more likely to use Lakeville if they played it themselves at PLANT CAMP and if it was demonstrated by Ms. Lane in their classroom. As one participating teacher said, "It is really nice to have someone come in and demonstrate the curriculum and show the flow of how the activity goes, as it would take a lot of time to figure out all of the components."

Following are some quotes from thank you cards from student participants:

- *Thank you for teaching me about plants and animals. I can't wait to learn more.*
- *That game was a fun, fun, fun way to learn about plants and the environment!*
- *My favorite part was when I learned what plants are invasive, native, and non-native.*
- *I can't wait to go home and test my mom on what native and non-native plants are!*

On behalf of all of us at the UF-IFAS CAIP, we'd like to thank the APMS for their generous sponsorship of this project!

Lakeville (on the road)

Scheduling

School Name	Teacher	County	Grade	No. of Teachers	No. of Periods	No. of Students
University High School, 1000 Rhode Island Ave, Orange City, FL 32763-8836		Volusia				
Sept 11 2012 Merrick Johnson			HS	3	1	100
Sept 12 2012 Merrick Johnson			HS	2	1	226
AERF COMPLETED						
Wilson Elementary School, 985 South Orange Blvd, Sanford, FL 32711		Seminole				
Sept 18 2012 Doug Smith			4	1	1	80
Sept 19 2012 Doug Smith			4	1	1	80
APMS COMPLETED						
Daniel Jenkins Academy, 701 Ledwith Avenue, Haines City, FL 33844		Polk County				
Oct 23 2012 Melanie Tucker			6-8	2	7	194
AERF COMPLETED						
Argyle Elementary School, 2625 Spencer Plantation Blvd, Orange Park, FL 32073		Clay				
Nov 26-30 Jasmine Floyd			4	1	6	89
APMS COMPLETED						
Columbia Elementary School, 18501 Cypress Lake Glen Blvd, Orlando, FL 32820		Orange				
Dec 17 2012 Jennifer Rickey			5	2	2	39
Dec 18 2012 Jennifer Rickey						
AERF COMPLETED						
Seminole High School, 8401 131st Street NW, Seminole, FL 33776		Pinellas				
Jan 8 2013 Jennifer Kennan			HS	1	6	116
APMS COMPLETED						
P K Yonge Research Development School, 1080 SW 11th Street, Gainesville, FL 32602		Alachua				
Feb 25 2013 Mayra Cordero		pre-test/dvd/intro demonstration	6	1	5	96
Mar 18 2013						
APMS COMPLETED						
Argyle Elementary School, 2625 Spencer Plantation Blvd, Orange Park, FL 32073		Clay				
April 3 Connie Anderson			5	3	2	34
April 3 Jamie Suarez			5	3	2	24
April 4 Mary Bolla			5	3	1	17
APMS COMPLETED						
Southwest Middle School, 2815 Eden Parkway, Lakeland, FL 33803		Polk				
May 7 2013 Debra Porter			6-7	2	2	115
AERF COMPLETED						
Oakview Middle School, 1203 SW 250th Street, Newberry, FL 32669		Alachua				
May 30 Eric Perez			7	1	6	130
FAPMS COMPLETED						
Tyne Elementary School		Clay				
Fall 2013 Liane Patrylo						
FAPMS						

University of Georgia, Center for Invasive Species and Ecosystem Health, 4601 Research Way, Room #113, Tifton, GA 31793						
June 20 2013 Gary Hawkins						
June 20 2013 Karan Rawlins						
AERF COMPLETED						
Teacher Training 10-15 teachers						

The Florida Invasive Plant Education Initiative has three main components:

1. PLANT CAMP (annual 5-day workshop for teachers),
2. Four curriculum modules, each with its own video presentation, and
3. *Lakeville – A Natural Resource Management Activity*.

The curriculum modules and Lakeville Unit are all available on our website for download, and kits for module activities and Lakeville are available on loan. All are aligned to the required state curriculum standards which allow any Florida teacher to utilize these materials.

PLANT CAMP requires multiple agencies, faculty members, full-time and part-time support staff and volunteers to operate. (However, if any organization wanted to implement PLANT CAMP in another region, we would be more than happy to share our planning calendars, budgets, and logistical advice).

All four curriculum modules could be adapted, and in fact can be used as-is by teachers in other states as the lessons are aligned to Common Core State Standards (adopted by 45 states). However, the curriculum on its own without the support of PLANT CAMP and an information office dedicated to outreach, promotion, and one-on-one contact with teachers, isn't likely to be used.

The component of our initiative that can most easily be adapted to fit any regional or national needs is *Lakeville – A Natural Resource Management Game*. Lakeville is ready out-of-the-box and, although it requires some promotion and assistance, and the very nature of the game-show-style activity, its ease of use, and its interdisciplinary lessons make it a great candidate for a memorable lesson on invasives.

There are several ways to take Lakeville to a national or regional level. Lakeville includes 12 Citizen Roles and 30 Critter Roles that apply to a freshwater ecosystem in Florida. Although there are 30 critters to choose from, each class usually ends up using only 10-12 critters with students working in groups of 2-3. A regionally or nationally based Lakeville game should have 12 critters developed (rather than 30). The critters in the current game are applicable to the Southeast region. New critter cards could be developed for: Northeast, Midwest, Northwest, Southwest. Alternatively, one game could be created acknowledging a specific region or incorporating critters that are in all regions. These options each have associated costs.

OPTION 1a: SE Regional Lakeville, with FL-specific elements: \$2200

Edit Lakeville Unit Guide but **keep all activities specific to Florida**, including Module 1 *Silent Invaders* video presentation. Create 10 kits for loans to schools.

OPTION 1b: SE Regional Lakeville, with no FL-specific elements: \$7500

Edit Lakeville Unit Guide to **change all Florida specific activities to SE region specific, including Module 1 *Silent Invaders* video presentation**. Create 10 kits for loans to schools.

OPTION 2: Any ONE regional Lakeville OR National Lakeville: \$8300 each

Edit Lakeville Unit Guide and critter cards to reflect either a region other than the southeast, OR to reflect national critters, including all activities and Module 1 *Silent Invaders* video presentation. Create 10 kits for loans to schools. [This would be the cost of EACH regional Lakeville, so if only one is chosen, a national Lakeville would be the most financially feasible.]

Addition options:

Lakeville Trailer (for promotion) – approximately 1 minute: \$400

Lakeville How-to Video (for training, ease of use for teachers) – approximately 10 minutes: \$15,000

Draft Resistance Management Document developed by Jeff Schardt and M. Netherland

Note to APMS Resistance Management Team:

The Aquatic Plant Management Society (APMS) has been tasked by the Weed Science Society of America (WSSA) with developing a module for herbicide resistance in aquatic plant management. In viewing the composition of modules for agronomic crops and turf, a series of PowerPoint Lessons has been developed for key topics. We should likely follow suit and develop a series of lessons via PowerPoint. The following outline has been developed for critical review by members of this group. This is just a starting point and we are looking for constructive criticism and suggestions for improvement. The topic of herbicide resistance in aquatics is not necessarily straightforward, and we need to be able to present the complexity of the problem in a clear manner. In some cases, we have added gray boxes to further illustrate an example. Ultimately, the verbiage and lesson topics will be transferred to PowerPoint presentations and animation, pictures, etc. will be added to enhance the overall presentation.

Herbicide Resistance Stewardship in Aquatic Plant Management

Lesson 1. Background on the Aquatic Herbicide Portfolio, Resistance in Aquatics and Description of Aquatic Plant Management Venues and Plant Types

Aquatic Portfolio and Resistance Concerns

Most aquatic plant managers agree conceptually that resistance management strategies are an increasingly important component of any long-term plant management program that employs the use of herbicides. This increased emphasis on resistance management is heightened by the fact that all of the aquatic herbicides registered since 2005 including carfentrazone, penoxsulam, imazamox, flumioxazin, bispyribac, and topramezone are single site of action compounds (i.e. herbicides target a plant specific enzyme) that have shown potential for resistance development in terrestrial systems. Figure 1 shows herbicide classes in which resistance has been confirmed in terrestrial applications during the past five decades. While these enzyme inhibitors have great advantages in terms of non-target toxicity, aquatic managers need to recognize the potential for increased susceptibility to resistance development.

Figure 1. Number of plant species that have developed resistance to different herbicide MOAs since the mid-1950s.

Perspectives on Resistance Development in Aquatic Plant Management

It is important to note there are very few documented cases of true herbicide resistance in aquatic plant management. The widespread development of resistant strains of hydrilla (*Hydrilla verticillata* L.f. Royle) to the phytoene desaturase (PDS) inhibiting herbicide fluridone in some Florida lakes that received multiple fluridone applications has been well documented (Albrecht et. al. 2004, Arias et al. 2005, Dayan and Netherland 2007). Outside of this high profile instance for a major tool on a major weed, other examples are fairly minor and site specific and include a

Landoltia species (*Landoltia punctata*) that showed a 50X resistance to diquat (a Photosystem I inhibitor) in a Florida canal system (Koschnick et al. 2006) as well as increased resistance of hydrilla to label rates of the dipotassium salt of endothall (contact herbicide with an unclassified mode of action) in two Central Florida Lakes (Berger et al. 2011 - APMS Proceedings).

Issue: Adapting to fluridone resistance in hydrilla in Florida lakes

While the resistance of hydrilla to fluridone represented a significant loss of a cost-effective and selective tool for large-scale hydrilla management in some Florida lakes, there is another perspective on this issue. The registration of aquatic products such as penoxsulam, imazamox, flumioxazin, bispyribac, and topramezone was significantly influenced by the perceived opportunities in the Florida hydrilla herbicide control market afforded by fluridone resistance. Additionally, it is important to note that despite the significant issues with fluridone resistant hydrilla in Florida, there have been no documented cases of fluridone resistance outside of Florida despite widespread use over a period of 27 years. The factors that drove fluridone resistance in Florida remain a key question for aquatic plant managers and researchers. In the meantime, fluridone continues to be used to successfully control hydrilla in many lakes and ponds in the state. Further, many of the tolerant strains of hydrilla in Florida can still be managed with fluridone, either at increased rates or in combination with other herbicide active ingredients.

Species Shifts Due to Reliance on a Single Mode of Action

While resistance development remains a significant concern in aquatic plant management, the repeated use of the same mode of action has more often been associated with a shift in the nuisance species spectrum to a plant that is less susceptible to the repeated management strategy. A documented example of this includes a shift from the more susceptible Eurasian watermilfoil (*Myriophyllum spicatum*) to hybrid watermilfoil which shows increased tolerance to fluridone as well as 2,4-D and triclopyr (auxin mimic) (Thum et al. 2012, Berger et al. 2012, LaRue et al. 2013). The selection for a more tolerant species is not the same as resistance; however, it illustrates the rationale for managers to implement resistance management strategies if feasible.

Rotation and Resistance Management

With growing interest in herbicide stewardship, there is increasing discussion using the terms herbicide rotation and resistance management interchangeably. Herbicide rotation is but one of the many stewardship (or resistance management) strategies considered by aquatic plant managers presented in this module. Herbicide rotation is a cornerstone of resistance stewardship in commercial crop management where conditions are relatively consistent and predictable. However, plant management in aquatic sites is highly situational and temporal, and selection and success of all resistance management strategies are influenced by highly variable environmental conditions.

Description of Aquatic Plant Management Venues

It is tempting to incorporate resistance management strategies from commercial crop management into aquatic plant control. The similarities and differences in these plant management venues must be assessed before committing to herbicide resistance management programs in aquatic situations. In defining the term “control” from an aquatic plant manager’s perspective, the Aquatic Plant Management Society (APMS) reported a diverse continuum of expectations and outcomes related to amount and duration of aquatic plant control. It is important to initially understand the basic venues and types of aquatic plants that are controlled before assessing whether crop management strategies may apply in aquatic situations. Following are descriptions of the two basic venues where aquatic plants are managed and considerations that are critical in establishing herbicide resistance management strategies: natural or modified natural areas, and man-made sites.

Natural or modified natural areas:

- include ponds, lakes, reservoirs, streams, rivers, canals, and wetlands
- most plant and animal species may be considered to be valuable ecosystem components
- management strategies need to be effective in controlling target plant species while conserving or enhancing native or other valuable plant and animal species
- selectivity considerations may:
 - limit the number of herbicide active ingredients that are available
 - limit the rates and timing of application
 - influence the cost and amount of control that can be accomplished
- key differences between crop and aquatic plant management
 - crop management - many weeds targeted for control among 1-2 non-target species
 - natural areas invasive plant management - 1-2 plants targeted
 - among many desirable plant and animal species
 - conserving or enhancing non-target species is equally or more important than control of the target plant
 - water exchange and ability of plants to move within aquatic systems

Man-made sites:

- include irrigation canals, aqueducts, water retention and water feature ponds (e.g. golf courses, homeowner associations, industrial parks)
- any amount of macrophyte growth may be considered as undesirable
- similar to commercial crop herbicide application strategies
 - plants are subject to maximum control efforts with lesser emphasis on selectivity
 - more herbicides may be available to incorporate into management operations

Description of Aquatic Plant Types

There are four general plant morphologies or plant types controlled in aquatic plant management venues: emergent, floating, and submersed vascular plants, and algae. For each plant type, an herbicide compound may have very different effects. For example: glyphosate herbicide is effective when applied to the above water leaves of floating water hyacinth (*Eichhornia crassipes*) or emergent cattail (*Typha* spp.), but is completely ineffective if injected into the water to control any submersed plant species.

Emergent plants:

- include grass, sedge, and rush species and numerous broadleaf emergent plants (e.g., *Pontederia*, *Sagittaria* spp.)
- control, especially large-scale control, is similar to commercial crop management
 - vast area monocultures like torpedograss (*Panicum repens*), phragmites (*Phragmites* spp.), and cattail are targeted with herbicides, often via aerial application
 - herbicides are applied directly to plant foliage
 - application rates can be carefully controlled
 - herbicides can be precisely applied within a defined area
- small scale or spot control is frequently required
 - selectivity concerns may substantially reduce the number of herbicides available and size of areas to which herbicides are applied
 - notably when controlling invasive grasses growing among desirable native grasses or other emergent vegetation

Floating plants:

- include large species - water hyacinth and water lettuce (*Pistia stratiotes*)
- also small plants like *Salvinia* spp., duckweeds (*Lemna* spp.), and watermeal (*Wolffiella* spp.)
- herbicides are most often applied directly to the foliage of floating plants
 - large-scale application strategies are likewise similar to commercial crop applications
- injecting systemic herbicides into the water column for uptake is becoming an alternative approach as a resistance management strategy

Submersed plants:

- include invasive hydrilla, Eurasian watermilfoil, curlyleaf pondweed (*Potamogeton crispus*), and egeria (*Egeria densa*) prevalent in natural areas
- sago pondweed (*Stuckenia pectinata*) and other species in irrigation canals
- submersed plant control is usually the most expensive control from a per-acre perspective
- most strikingly different from commercial crop management
 - entire water column may be treated vs. foliar application in crop management
 - herbicide exposures on leaf surface are measured in hours in most commercial crop management situations
 - herbicide exposures in aquatic systems range from hours / days for contact type herbicides to weeks / months for systemic compounds
 - applied in systems where water exchange occurs via gravity, wind, and internal heating and cooling convection currents
 - herbicides begin to dissipate and degrade immediately upon application to water
 - entire three dimensions of ponds and lakes may be dosed with an herbicide application
 - plants in only a portion of the water body may treated (e.g. 10 acres in a 1,000-acre lake)
 - management objectives in natural areas usually include controlling invasive species while conserving or enhancing many comingled non-target species
 - selective plant management:

- usually limits the number of available compounds,
- dictates length of exposure, rate and timing of application,
- may limit the amount of control attempted
- pre-emergent strategies are rarely applicable for submersed plant control except following extensive drought or extreme water level drawdown

Algae:

- include filamentous, phytoplankton, blue-green (cyano bacteria), and macrophytic algae
- blue-green algae can produce toxins, cause taste and odor issues in drinking water, and degrade the value of property when these plants bloom or form dense surface mats
- copper-based compounds have been the dominant mode of action to control algae for decades
- few realistic alternatives to copper
 - include amine salt of endothall, peroxide based algaecides, enzyme-based approaches
 - most aquatic herbicides do not have algal activity at label use rates
- ability to rotate modes of action or develop other resistance management strategy is difficult given:
 - the current reliance and proven track record of copper
 - the cost and variable activity of other current options
- this area of aquatic plant management may be the most difficult in which to develop a resistance management strategy

Lesson 2. Resistance Management Considerations in the Realm of Available Herbicides, Aquatic Plant Growth Patterns, and Current Control Strategies

Herbicide Application Strategies that Influence Resistance Management

Weed scientists commonly infer that one resistant individual is present in a population and repeated applications of the same herbicide allows the resistant plant(s) to expand. Aquatic plants are found in many different combinations with other plant and animal species. They are also found growing under many different ecological and climatological conditions in waters with widely varying uses and functions. Managers employ differing strategies to cope with each situation; therefore, there is no one strategy to address resistance management in aquatic plant management situations.

Following are considerations that confront aquatic plant managers and researchers from both the private sector and government agencies, along with rationale and examples from frequently encountered scenarios in aquatic plant management. Singly, these scenarios present difficulties for managers controlling plants in multiple use systems under conditions that can change considerably from one application to the next. Adding to the complexity, most issues below occur collectively within each water body - each influencing management plans and anticipated outcomes. These examples mostly express difficulties encountered managing submersed aquatic plants.

- **Large-scale vs. spot applications**

Large-scale applications expose a greater number of plants to an herbicide, intuitively increasing the potential for resistance. Consequently, managers often increase surveillance, especially for invasive plants that are present in the ecosystem, to control smaller populations before they manifest into large problems. While acting early may increase the number of control options that may not be available for large-scale application, many small-scale herbicide applications may expose plants outside the target area to sub-lethal herbicide doses through dissipation, presenting additional pathways toward potential resistance development.

Managers face several obstacles in employing early detection and rapid response (EDRR) management strategies in public waters, especially for submersed plant control in multiple use systems. Unless detailed and frequent surveys are conducted, submersed plants are difficult to detect until they become established across a broad area. Stakeholders often oppose the use of pesticides in public waters until large-scale problems develop. Stakeholders are increasingly pressing managers and elected officials to exploit ecological services provided by invasive plants, postponing control and allowing large populations to establish that in turn require long-term management with herbicides.

- **Large lakes or reservoirs vs. smaller ponds**

Whole-lake herbicide applications are usually more economically and logistically feasible in small lakes and ponds than in large systems. There may be a larger array of management options available for smaller waters. Surveillance and follow-up management may be more effective in smaller systems. Larger lakes usually equate to larger herbicide applications to control plant populations. However, invasive or nuisance aquatic plants rarely are allowed to cover or fill an entire system. Therefore, rarely do entire waters receive a herbicide dose for aquatic plant

control. Consequently there may be many small-scale applications in a year's time in a large waterbody, providing more opportunities for resistance development. It is important to note that despite multiple thousands of herbicide and algaecide applications to small ponds over a period of decades, there have been no cases of documented herbicide resistance emanating from these venues.

- **Plant populations with many individuals per surface area**

It would seem intuitive that some plant species may be more susceptible to developing resistance based on the number of plant individuals or growing apices within the population. For example, water lilies may have 10-20 leaves per square meter vs. thousands of individuals per square meter for duckweeds or salvinia. This scenario may get some support in the case of fluridone-resistant hydrilla strains that developed in Florida in waters where applications that dosed thousands of acres exposed millions of growing tips. Similarly, diquat resistance was reported after multiple applications to control dense growths of *Landoltia punctata* in Florida canals which can reach densities of 0.5 – 1.0 billion plants per acre. Conversely, no resistance issues have been reported after years of diquat applications to control *Wolffiella* spp. that can reach densities approaching 5 – 10 billion plants per acre. Copper has been applied to control planktonic algae, that can reach cell counts approaching 20 million cells per ml of water, for decades with no resistance issues.

- **Invasive vs. native plant control**

Invasive plants like hydrilla, Eurasian watermilfoil, torpedograss, and giant salvinia usually have much faster growth rates than native plants, therefore requiring more frequent management. Additionally, invasive plants usually interfere with designated water uses and functions more than native plants and consequently are more often targeted for control. However, some native plants like algae, duckweeds, and watermeal can reach nuisance levels and are targeted for control with similar frequency and in similar sites as invasive giant salvinia.

- **Sub lethal herbicide doses**

A frequently recommended herbicide resistance management strategy is to apply full label rates to control target plants. This suggestion usually comes from those familiar with commercial crop management where lowest effective herbicide rates are often close to the maximum label rate. In aquatics, the maximum label rate may be many times higher than the lowest effective rate for a target plant species. This is especially important in natural systems where selectivity to conserve or enhance non-target plants is often as or more important than target plant control.

Additionally, applying maximum label rates is difficult for aquatic plant control in natural areas from a cost perspective, especially for large-scale management programs financed by limited public (tax) funds. Further, governments have funded decades of research to identify the lowest herbicide rates possible when controlling aquatic plants in natural areas to meet increasing stakeholder and regulatory (NPDES) demands of limiting herbicide discharges to public waters, and to improve selectivity in controlling target plants while conserving or enhancing comingled native vegetation.

Issue: The inevitability of sub-lethal herbicide exposures in submersed aquatic applications

Most herbicide treatments to control emergent and floating plants are fairly straight forward with foliar applications directly to leaves at a prescribed rate. Submersed applications of herbicides are immediately subject to dissipation through herbicide solubility and water exchange. Managers often try to control small areas of submersed invasive plants before they become widespread disruptive populations. This results in many small-scale lake perimeter or spot applications. Unless the entire water column throughout the entire water body is treated at a maximum label rate, there will likely be plants outside of the target area exposed to a less-than-lethal herbicide dose. Paradoxically, selecting maximum rates for spot applications may enhance the lake-wide exposure to sub-lethal rates via dissipation.

- **Herbicide modes of action and their likelihood of resistance development**

Since the early 1980s, ALS herbicides have shown the greatest propensity for resistance in terrestrial applications. While several new chemistries have been registered since 2005 by the U.S. Environmental Protection Agency for use in aquatic sites, seven of the 14 are herbicides that are currently registered for aquatic use act on a single gene site. Seven of the ten herbicides available to control hydrilla are active on one gene site and three of these herbicides target the ALS enzyme. Managers should be aware of which herbicide modes of action have the highest number of resistant weed species and design aquatic plant management application strategies that consider these statistics. However resistance issues have almost exclusively arisen in terrestrial venues that are far different in magnitude and in application and exposure processes.

A matter of scale? Comparing weed management in production agriculture vs. aquatic systems

As discussed, aquatic plant managers generally agree conceptually that incorporating resistance management strategies into herbicide application programs is logical from a stewardship perspective. Evidence of resistance development in weeds controlled in crop production is compelling in that many of the herbicides used in aquatic plant management venues are from the same MOAs used in agricultural settings. However, it is important to note that there is a considerable difference in scale between the volume of herbicides applied in crop production vs. aquatic plant management. An estimated 175 million acres of corn and soy beans are planted in the U.S. and herbicides may be applied for weed control 2-3 times per year to this acreage. The Florida Fish and Wildlife Conservation Commission oversees the largest aquatic plant control program conducted in natural areas in the U.S., managing an average 70,000 acres of aquatic plants each year (.04% of the corn/soybean crop acreage). Further, these applications are spread out in about 300 water bodies across the state. Most of the applications are to small acreages compared to overall waterbody size or spot treatments, and are applied only once per year.

- **Plant growth patterns and the likelihood of developing resistance**

Should managers take a more assertive role implementing resistance management strategies for programs that control fast-growing invasive plants that may need multiple control events each year vs. native plants that are controlled once every several years in a given aquatic system?

Does prolific sexual reproduction equate to a greater possibility of resistance development? Do plants that only reproduce vegetatively have a lower potential for resistance? What about plant species that have multiple asexual reproductive avenues in addition to sexual reproduction? It is important to note here that fluridone resistant hydrilla developed in Florida from an asexually reproducing population due to somatic mutation.

Resistance Management Strategies Considered in Aquatic Systems

Following are several strategies that aquatic plant managers consider when developing and implementing herbicide resistance stewardship programs. Cautionary considerations are warranted prior to selecting an herbicide application strategy outlined below, particularly if implementing a rotational strategy. There are few registered herbicide compounds available from which to select an initial control strategy. From nearly a century of applying chemicals to control aquatic plants, managers have learned that eradication, especially for invasive plants established over a broad area, requires a persistent and dedicated effort. In most situations, the initial control effort represents the most cost-effective and selective strategy available. Therefore, follow-up efforts using alternative herbicides, if any are available, may represent a more costly, less selective, or less effective control strategy.

- **Practice EDRR or Maintenance Control where possible vs. waiting for problems to develop**
 - eradicate pioneer invasive plant populations before they establish
 - e.g. eradicate pioneer hydrilla populations in FL and giant salvinia in SC
 - control plants when success is most likely
 - small populations vs. large
 - early in the season when plants may be most susceptible
 - apply herbicide strategies that are most effective on target
 - may require multiple applications with the same mode of action
 - before plants go to seed or produce turions/tubers/corms
 - spot applications (fewer individuals) vs. large-scale treatments
- **Herbicide application strategies to consider where applicable**
 - rotate active ingredients
 - combine active ingredients / MOAs
 - follow-up strategy after single herbicide application to control survivors / outliers
 - apply different MOA or different method
 - integrate bio control or other physical / cultural method - for example:
 - stock low rate of herbivorous fish after initial herbicide application
 - burn phragmites or torpedograss to reduce biomass and apply herbicide to control regrowth
 - apply at time of highest control success probability to minimize need for follow-up
 - use plant phenology information to choose the herbicide and timing of application
 - apply in conditions that minimize herbicide degradation (light/temp/microbes) and dissipation (water exchange)
 - apply efficient and clearly effective rates to control target plants

Limitations to Resistance Management Strategies in Aquatic Systems

- cost, especially for public-funded aquatic plant control
- reduced non-target plant species selectivity, especially at higher herbicide use rates
- limited effective / selective options
- water exchange - maintaining optimum use rate in control site for submersed control
- regulatory constraints for certain products (e.g. drinking water / irrigation restrictions)
- stakeholder opposition
- many sites require long-term data development to justify product use - difficult to alter strategy unless similar long-term data development projects are completed

The Universe of Effective Aquatic Plant Management Options

Fourteen herbicides are registered by the USEPA for use in aquatic systems, representing nine modes of action. Nine of these herbicides are enzyme-specific inhibitors (Table 1) At first glance, this appears to provide managers with an adequate array of options to weave into herbicide resistance management programs. However, two examples from Florida provide insight into the difficulty facing aquatic plant managers in selecting responsible, cost-effective herbicide resistance management strategies.

Table 1. Registered Aquatic Herbicides, Primary use Pattern, Year of Registration, and Mode of Action

Herbicide	Primary Application Site	Year of Registration	Mode of Action
Copper	Algae / Submersed	1950's	Undefined plant cell toxicant
2,4-D	Submersed / Emergent / Floating	1959 (ester) 1976 (amine)	Auxin mimic
Endothall	Submersed / Algae	1960	Undefined - impacts respiration
Diquat	Submersed / Emergent / Floating	1962	Photosystem 1 inhibitor
Glyphosate	Emergent	1977	Enzyme Inhibitor - EPSP
Fluridone	Submersed	1986	Enzyme inhibitor - PDS
Triclopyr	Submersed / Emergent	2002	Undefined - Auxin Mimic
Imazapyr	Emergent	2003	Enzyme Inhibitor - ALS
Carfentrazone	Submersed / Emergent / Floating	2004	Enzyme Inhibitor - PPO
Penoxsulam	Submersed / Floating	2007	Enzyme Inhibitor - ALS
Imazamox	Submersed / Emergent / Floating	2008	Enzyme Inhibitor - ALS
Flumioxazin	Submersed / Emergent / Floating	2011	Enzyme Inhibitor - PPO
Bispyribac	Submersed / Floating	2012	Enzyme Inhibitor - ALS
Topramezone	Submersed	2013	Enzyme inhibitor - HPPD

Case 1 - Hydrilla Management in Florida public lakes and rivers

Ten of the 14 herbicides registered for use in Florida waters have activity in controlling hydrilla. While the available herbicide options appear to be relatively high, site conditions usually reduce practical hydrilla management strategies to one or two alternatives for each water body. This for a plant species that may require multiple management efforts during a single year. State regulatory requirements limit copper in public lakes and rivers to sites where no other viable control method is available. Diquat is relatively ineffective in controlling hydrilla when applied alone. Carfentrazone and flumioxazin have moderate hydrilla control activity and are degraded in a matter of minutes in waters with a pH above 9.0; a typical condition in Florida waters. Imazamox acts more as a growth regulator than a herbicide for hydrilla control. Topramezone was registered by USEPA for use in water during late 2013 and is under evaluation for its potential use in Florida waters. When used alone, bispyribac, fluridone, and penoxsulam, require exposure periods of several months for effective hydrilla control, presenting challenges including sustaining effective concentrations, limiting water uses (i.e. drinking and irrigation) off site dissipation, and non-target plant selectivity. After years of research and operational monitoring, managers have gravitated in recent years to applying endothall alone or in combination with other of the aforementioned herbicides, each combination of which has different levels of effectiveness in controlling hydrilla or impacting different assemblages of comingled non-target plants.

Case 2 - Torpedograss Management

At the other end of the spectrum, only glyphosate and imazapyr provide effective torpedograss control in Florida waterbodies and wetlands. Torpedograss continues to expand its range and is already present along shorelines and in shallow waters of more than 80% of Florida's 460 public lakes and rivers. Glyphosate alone may provide temporary control, requiring multiple applications each year. Imazapyr cannot be applied within one mile of a functioning water intake, including ever-increasing irrigation intakes for lawns and gardens in residential / riparian areas. This effectively limits torpedograss control in most Florida public waterbodies to repeated applications of one moderately effective tool.

Roles of Aquatic Herbicide Users in Regards to Resistance Management

- regulatory agencies
 - U.S. EPA registers herbicides for use in waters
 - requires regulatory label language
 - label language for newly registered herbicides provides management precautions regarding resistance management (penoxsulam, flumioxazin, and bispyribac)
 - state departments of agriculture
 - register herbicides for use within most states

- enforce label requirements
- permitting agencies
 - usually state (rules) and sometimes local governments (ordinances)
 - e.g. DEQ / DEP / DNR / DEC / DOE / DOC / FWC, etc.
 - regulate through permit requirements
 - can require sampling / testing to determine level of susceptibility (e.g. fluridone)
 - can require resistance management strategies for repeated control efforts
- industry
 - encourage users to incorporate resistance stewardship strategies
 - recommendations via technical support personnel
 - produce and distribute research findings and product literature
 - draft labels for U.S. EPA requirements / acceptance
 - label language can be advisory or enforceable
 - proactive label language relative to stewardship can be problematic if competitor product labels do not contain similar language
- applicator entities that apply herbicides to water
 - government agencies apply or contract herbicide applications in public waters
 - can fund or conduct research or monitoring efforts to develop resistance management strategies
 - private companies with many applicators and accounts in public / private waters
 - individual riparian owners, small herbicide application company

Comparisons for Herbicide use to Control Plants in Commodities vs. Aquatics

Table 2 summarizes the similarities and differences among commercial crop weed management and weed management in private and public waters. This may be helpful in providing insight into the difficulties and reluctance of aquatic plant managers to employ traditional herbicide rotation as viable resistance management strategies in aquatic venues.

Table 2. A Broad Comparison of Issues Related to Commodity-Based Weed Control and Aquatic Weed Control in Private and Public Waters.

Commodities	Aquatics - private water	Aquatics - public water
Business operation	Business operation	Resource management
Decisions based on fundamental economics - individual often decides management strategy	Decisions based on fundamental economics driven by customer demands	Decisions based on quantity and quality of area managed - often with substantial stakeholder input
Budget from cash flow, credit, etc. Some cost increase can be tolerated / balanced against revenue	Budget based on bid price or contract - limited flexibility to operate within a fixed budget	Defined budget - no flexibility in overall budget - little flexibility for individual project budgets
Sexually reproducing annual weeds: high seed input	Strong focus on algae in ponds: invasive and nuisance vegetation in small areas of lakes	Vegetatively reproducing annual / perennial weeds - focus on invasive plants: low seed viability
Herbicides applied to surface area - in two dimensions	Herbicides / algacides often applied to water volume - in three dimensions	Herbicides often applied to water volume - in three dimensions
Can rotate crops	Cannot rotate weeds or algae	Cannot rotate weeds or algae
Limited impacts of dilution	Potential for rapid dissipation	Potential for rapid dissipation
One desirable species with many weeds possible	Site dependent; often few desirable plant species	Site dependent; often one target weed and multiple desirable species
Many herbicide options and mixtures	Limited options	Limited options and subject to substantial regulation
Minimal other issues	Paying customers with limited other issues	Regulatory, permitting, non-target, public perception issues
Rarely have hybrid weeds	Rarely have hybrid weeds	Hybrid weeds and invasive polyploids are prevalent

Lesson 3. Operational Examples of Situations that Challenge Traditional Herbicide Resistance Management Practices in Aquatic Sites

Following are several examples of current application strategies to control aquatic plants that need to be considered before compelling managers, either voluntarily or through regulation, to incorporate herbicide resistance management practices.

Case 1: Considering repeated applications of the same herbicide MOA on a diminishing scale

There is significant debate regarding eradication strategies for monoecious hydrilla which rely on repeated use of fluridone herbicide. Likewise there has been debate regarding curlyleaf pondweed turion reduction strategies that have relied on repeated annual applications of endothall. In both cases the management strategy is to target the plant at a specific time to reduce the vegetative propagule bank. This means treating plants annually until the tuber / turion bank is exhausted. In both cases initial management is implemented prior to the formation of new propagules. The initial plant density can be fairly dense while subsequent treatments target plants that are sprouting from dormant propagules formed prior to herbicide exposure. It is argued that these multiple treatments are “recipes for resistance”; however, by treating a diminishing propagule bank that represents new plants that have sprouted each year, this scenario may actually suggest that resistance development is a low probability event.

Case 2: Considering time between large-scale applications of the same herbicide MOA

There is significant debate among aquatic plant managers regarding a potential length of time between large-scale treatments with the same mode of action that may reduce the possibility of resistance development. In contrast to terrestrial weed control, particularly in row crop production venues, annual large-scale applications are not always necessary, especially when controlling aquatic plants in natural areas. Large-scale treatment with products like fluridone, 2,4-D, or an ALS inhibitor may result in near complete control of the target vegetation for two to three years. The slow recovery of the target plants may result in small-scale spot applications; however, if the plants recover and require additional whole-lake or large-scale management, aquatic managers are likely to support use of a mode of action that initially provided two to three years of control.

Case 3: Considering alternate herbicide strategies where no evidence of resistance exists after prolonged application of a current practice

Thousands of acres of water hyacinth have been controlled in Florida each year since the early 1950s using 2,4-D. A similar amount of water lettuce has been controlled over the past several decades with a near exclusive reliance on diquat. To date there has been no indication of resistance in either plant species. Should resistance management measures now be implemented for water hyacinth and water lettuce after more than 50 years of intensive use without incident? Recent trials focusing on penoxsulam and flumioxazin suggest both have good fits in the water hyacinth and water lettuce control programs where improved selectivity is desired. Convincing managers to switch to these newer modes of action will make sense in areas with diverse vegetation where selectivity is desired. Nonetheless, convincing managers to rotate for resistance management in programs that have been successful from an efficacy as well as cost perspective for 50+ years will require much greater education or incentive.

Case 4: Considering herbicide resistance management strategies where few alternatives exist

The western irrigation canal market provides a good example of the dilemma facing irrigation managers when it comes to resistance management strategies. There are only three active ingredients labeled to inject into flowing water for in-season irrigation water treatment in the western states, including acrolein, copper, and endothall. Acrolein was the mainstay of the irrigation market for aquatic macrophyte control for decades; however, due to NPDES regulatory issues related to discharge of acrolein-treated water and the introduction of endothall as a new tool, many irrigation companies have shifted to endothall for economic, regulatory, and efficacy reasons. While multiple applications of endothall through time do not suggest the best resistance management strategy, convincing irrigators to incorporate acrolein or copper in the name of resistance management will be very difficult. Efforts are underway to evaluate pre-emergent strategies with products like fluridone and penoxsulam; however, irrigators may choose the most cost-effective approach that results in the fewest regulatory hurdles. Given the time and costs associated with registering a new product in the aquatics market, it is unlikely that additional modes of action will provide immediate relief. This theme of a mode of action becoming dominant for efficacy, regulatory, and social reasons is very common in natural areas as well and will challenge the ability to develop a simple resistance module for aquatic plant management.

Case 5: Considering herbicide resistance management strategies that may be less cost-effective, require more regulatory restriction, or have little to no public support

Development of an extensive operational use pattern in aquatics often requires many years of research, monitoring, and treatment refinement, especially in natural areas where conserving non-target vegetation is as important as cost-effective management of nuisance plants. These efforts are typically initiated after the label has been granted and continue for years as new suites of non-target plants and waterbody conditions are encountered. Moreover, use patterns are typically developed for a single mode of action on a target plant. Once these use patterns are established, managers, regulatory agencies, and stakeholders develop a comfort level or tolerance with a given approach. This creates a significant hurdle for introducing a new mode of action into an established program. There will typically need to be a compelling reason (e.g. reduced cost, increased selectivity, reduced water use restrictions) to incur the costs associated with developing a major new use pattern. Resistance management is not currently viewed as a compelling reason for altering the vast majority of large-scale use patterns.

2014 APMS Winter Board Meeting
Finance Committee Report
John Gardner

Both the APMS and Scholastic Endowment investment accounts benefited from the strong 2013 equity market performance. The funds remain balanced between approximately 60% stock and 40% bond investments. Our APMS general investment account grew 14.6% throughout 2013 and the Scholastic Endowment account grew 16.6%. The Society did not invest any additional funds into either account in 2013.

See attached charts and account details.

General APMS Investment Account

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Welcome: johng (sign out)

[Summary](#)
[Transactions](#)
[Pending Trades](#)
[Holdings](#)
[Tax Lots](#)
[Performance](#)
[Statements](#)

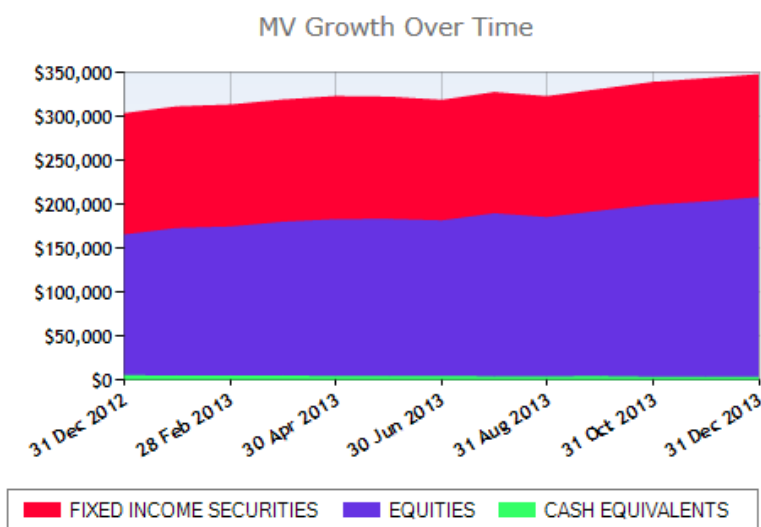
Account: Segment: Date Range:

Load time will vary based on criteria and date range selected

Account Performance

01/01/2013 - 12/31/2013

	Current Period	YTD
Beginning MV	\$302,576.72	\$302,576.72
Ending MV	\$346,933.10	\$346,933.10
Additions	\$0.00	\$0.00
Subtractions	(\$2,897.00)	(\$2,897.00)
Net Change	\$0.00	\$0.00
Total Return	\$44,356.38	\$44,356.38
	14.66%	14.66%



General APMS Investment Account

Account: Date:



Holding Report

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Asset Name	Ticker	Cusip	Acquired	Shares	Price	Cost	Market Value
Cash							
Cash						0.00	0.00
MISC CASH EQUIV-TXBL							
FED GOVT OBLIGATIONS SS #395		60934N807	03/24/2006	5,039.7000	1.0000	5,039.70	5,039.70
Cash Total:						5,039.70	5,039.70
EQUITIES							
STOCK - COMMON							
ALLIANZGI NFJ DIV INT & PREM ...	NFJ	01883A107	12/18/2012	250.0000	17.7100	4,034.70	4,427.50
EXXON MOBIL CORP COMMON	XOM	30231G102		150.0000	101.2000	4,257.26	15,180.00
PROCTER & GAMBLE CO	PG	742718109	08/30/1999	74.0000	81.4100	3,767.59	6,024.34
SPECTRA ENERGY	SE	847560109	08/30/1999	65.0000	35.6200	1,636.17	2,315.30
VERIZON COMMUNICATIONS INC	VZ	92343V104		100.0000	49.1400	1,968.40	4,914.00
STOCK - COMMON Sub-Total:						15,664.12	32,861.14
EQUITIES Total:						15,664.12	32,861.14
MUTUAL FUNDS							
MUTUAL FUNDS-TAXABLE							
AMERICAN FDS-CAPITAL WORLD ...	WGIFX	140543828		291.4420	45.2900	2,719.47	13,199.41
ARTISAN M/C VALUE #1464	ARTQX	04314H709		958.5220	27.0000	18,860.12	25,880.11
DODGE & COX INCOME #147	DODIX	256210105		2,254.9490	13.5300	29,011.37	30,509.47
FEDERATED INTERM CORP BOND ...	FIIFX	31420C407		3,221.1540	9.4800	31,991.19	30,536.55
FEDERATED INTL STRATEGIC ...	IVFIX	314172362		4,748.2590	4.2600	18,181.17	20,227.59
FEDERATED STRATEGIC VALUE ...	SVAIX	314172560		3,902.9732	5.8400	19,397.00	22,793.35
FIDELITY CONTRAFUND #22	FCNTX	316071109		113.5180	96.1400	8,875.69	10,913.63
LORD ABBETT SHORT DURATION ...	LLDYX	543916688		10,174.6350	4.5500	46,815.48	46,294.57
T ROWE PRICE BLUE CHIP GR #93	TRBCX	77954Q106		326.2470	64.6000	13,708.31	21,075.56
T ROWE PRICE INT'L DISCOVERY ...	PRIDX	77956H302		305.5560	55.7400	13,903.88	17,031.71
T ROWE PRICE MID CAP GR #64	RPMGX	779556109		194.3200	72.7800	11,493.61	14,142.63
T ROWE PRICE NEW HORIZONS #42	PRNHX	779562107		289.1360	46.2700	9,885.86	13,378.33
T ROWE PRICE SM CAP VAL #46	PRSVX	77957Q103		247.1290	50.3700	9,256.47	12,447.90
VANGUARD S/T INV GRADE #39	VFSTX	922031406		2,849.4310	10.7000	30,524.71	30,488.91
MUTUAL FUNDS-TAXABLE Sub-Total:						264,624.33	308,919.72
MUTUAL FUNDS Total:						264,624.33	308,919.72
Grand Total:						285,328.15	346,820.56

Scholastic Endowment Fund

[Account](#)
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Welcome: johng (sign c

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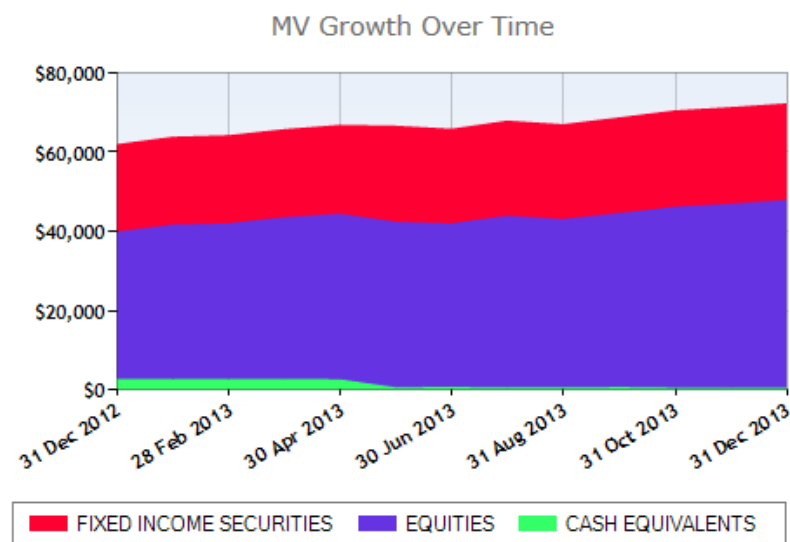
Account: Segment: Date Range: h

Load time will vary based on criteria and date range selected

Account Performance

01/01/2013 - 12/31/2013

	Current Period	YTD
Beginning MV	\$61,809.41	\$61,809.41
Ending MV	\$72,104.54	\$72,104.54
Additions	\$0.00	\$0.00
Subtractions	(\$597.55)	(\$597.55)
Net Change	\$0.00	\$0.00
Total Return	\$10,295.13 16.66%	\$10,295.13 16.66%



Scholastic Endowment Fund

Account: AQUATIC ENDOWMENT Date: 12/31/2013



Holding Report

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Asset Name	Ticker	Cusip	Acquired	Shares	Price	Cost	Market Value
Cash							
Cash						0.00	0.00
MISC CASH EQUIV-TXBL							
FED GOVT OBLIGATIONS SS #395		60934N807	03/24/2006	791.2300	1.0000	791.23	791.23
Cash Total:						791.23	791.23
EQUITIES							
STOCK - COMMON							
ALLIANZGI NFJ DIV INT & PREM ...	NFJ	01883A107	12/18/2012	250.0000	17.7100	4,034.70	4,427.50
MUTUAL FUNDS							
MUTUAL FUNDS-TAXABLE							
ARTISAN M/C VALUE #1464	ARTQX	04314H709		236.3140	27.0000	4,793.65	6,380.48
DODGE & COX INCOME #147	DODIX	256210105		455.1220	13.5300	6,146.86	6,157.81
FEDERATED INTERM CORP BOND ...	FIIFX	31420C407		665.8880	9.4800	6,652.39	6,312.61
FEDERATED INTL STRATEGIC ...	IVFIX	314172362		1,668.0930	4.2600	6,334.16	7,106.08
FEDERATED STRATEGIC VALUE ...	SVAIX	314172560		1,553.1353	5.8400	7,591.57	9,070.30
FIDELITY CONTRAFUND #22	FCNTX	316071109		62.5840	96.1400	4,882.77	6,016.82
LORD ABBETT SHORT DURATION ...	LLDYX	543916688		1,396.5020	4.5500	6,426.52	6,354.07
T ROWE PRICE NEW HORIZONS #42	PRNHX	779562107		134.4680	46.2700	4,817.09	6,221.83
VANGUARD INDEX 500 #40	VFINX	922908108		47.2920	170.3600	6,054.76	8,056.66
VANGUARD S/T INV GRADE #39	VFSTX	922031406		476.3220	10.7000	5,134.59	5,096.64
MUTUAL FUNDS-TAXABLE Sub-Total:						58,834.36	66,773.30
MUTUAL FUNDS Total:						58,834.36	66,773.30
Grand Total:						63,660.29	71,992.03

December 20, 2013

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

Subject: Report of the Meeting Planning Committee

Committee Members:

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

53rd Annual Meeting, July 14-17, 2013, San Antonio, Texas

Enclosure 1 provides detail income and expenses from our annual meeting in San Antonio this past July. Our income from this meeting was \$20266.31.

54th Annual Meeting, July 13-16, 2014, Savannah, Georgia

Enclosure 2 is a preliminary budget for the 54th Annual Meeting. This budget is based on an attendance of 175 delegates and guests. Registration fees, exhibit fees, and sponsorship levels are the same as last year. A net income of \$34K is estimated for this annual meeting.

ACTION ITEM. After discussion by the Meeting Planning Committee (MPC) and reviewing meeting cost estimates supplied by Bill Torres, the Committee recommends no change to registration costs for the 2014 meeting.

ACTION ITEM. The MPC recommends the Board approve the Tuesday evening banquet be held on one of the Savannah Cruises riverboats for a two hour cruise along the Savannah River. Estimated cost is \$15000 which will not impact meeting our food and beverage minimum at the Hilton DeSoto. The Society will provide shuttle transportation to and from the hotel for those attendees who prefer not to walk.

The Committee continues to finalize the guest tour, information for the web site, articles for upcoming newsletters, and soliciting donations for meeting sponsorship. In addition, the Committee is coordinating with Bill Torres concerning our meeting requirements and will be coordinating with APMS officers and committee chairs regarding other meeting necessities (exhibits, registration, audio/visual, student rooms, raffle/silent auction, etc.).

55th Annual Meeting, July 12-15, 2015, Myrtle Beach, South Carolina

The 55th annual meeting will be held at the Hilton Myrtle Beach Oceanfront Resort in Myrtle Beach, South Carolina. The contract has been signed.

56th Annual Meeting, July 2016

ACTION ITEM. The Meeting Planning Committee recommends the Board approve travel for Bill to conduct site visits to Omaha NE, Grand Rapids MI, and Green Bay, WI. Bill's travel may take up to three days.

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

ACTION ITEM. The Meeting Planning Committee recommends the Daytona Beach Hilton in Daytona Beach, Florida as the site for the 2017 annual meeting.

2 Enclosures

Tommy

Annual Meeting Income

Contributions	52,472.50
Delegate 1-Day Registration	1,300.00
Delegate Pre-Registration	28,600.00
Delegate Registration	4,620.00
Event Tickets	205.00
Exhibit Fees	18,900.00
Guest Pre-Registration	2,080.00
Student Registration	375.00
AERF Reimbursement	<u>1,869.58</u>
Total Annual Meeting Income	110,422.08

Annual Meeting Expense

Audio Visual Equipment	4,650.00	
Entertainment	315.00	
Guest Tour	2,460.00	
Host Chapter Reimbursement	5,463.87	
Invited Speaker	500.00	
Poster Boards	334.95	
Program	1,322.50	
Shipping of Materials	65.18	
Signs	1,146.43	
Student Tour	145.23	
Meeting Planner - San Antonio Expenses	3,459.88	Site Visit/Contract Negotiation/Meeting Serv
Annual Meeting Expense - Other	<u>70,292.73</u>	Includes all payments to Hotel
Total Annual Meeting Expense	90,155.77	

**Net
Income****20,266.31**

Income/Expense	
Income	
Exhibitor Fees	17,500.00
Registration	
Delegate	35,750.00
Guest	2,600.00
Student	-
Tickets	-
Total Registration	38,350.00
Sponsor Contributions	52,000.00
Total Income	107,850.00
Expense	
Audio Visual	2,500.00
Food and Beverage	
Banquet	15,000.00
Board of Directors Meetings	3,300.00
Past Presidents' Luncheon	750.00
Poster Session Reception	8,000.00
President's Reception	9,200.00
Refreshment Breaks	23,000.00
Regional Chapters Presidents' Breakfast	700.00
Student Affairs Luncheon	1,100.00
Total Food and Beverage	61,050.00
Guest Tour	2,600.00
Meeting Signage	1,200.00
Van Transportation	400.00
Poster Boards	400.00
Program	1,400.00
Student Guest Rooms	4,300.00
Host Affiliate Society Reimbursement	
Total Expense	73,850.00
Net Income	34,000.00

* Florida Event Planning and Meeting Service estimated A/V costs. Hotel quote \$5K.

Venue Information	Hilton Savannah DeSoto 15 East Liberty Street Savannah, GA 31401 912-232-9000						
Meeting Dates	Saturday : July 12, 2014 Sunday: July 13, 2014 Monday: July 14, 2014 Tuesday: July 15, 2014 Wednesday: July 16, 2014						
Guest Room Information	Room Rate & Tax	\$134.00 single/double 13% + \$1.00					
	Rate available	3 days pre and post Meeting dates					
	Check Times	Check In: 3:00 PM Check Out 12:00 PM					
	Reservation cut- off Date	Thursday, June 23, 2014					
	Room Block	Saturday	Sunday	Monday	Tuesday	Wednesday	Total
		30	120	120	80	30	380
	Reservation Link	877-280-0751 Personalized group web page has been published to the web. Your web page address is: < http://www.hilton.com/en/hi/groups/personalized/S/SAVDHHF-APM-20140712/index.jhtml?WT.mc_id=POG >					
Food and Beverage Information	Guaranteed Commitment	\$22,000					
	Service Charge	23%					
	Tax	7%					
	Attrition	80%					
Deposit Payments	<ul style="list-style-type: none">• \$1,000 Non-refundable deposit paid prior to June 15, 2012• \$9,000 deposit due June 13, 2014• Submit Direct Billing application no later than October 15, 2013 along with a copy of the signed contract						
Concessions	<ul style="list-style-type: none">• One complimentary room for every 40 guest rooms occupied• 25 complimentary exhibit table top• Upgrades: One Presidential Suite, five VIP deluxe corner suites, one Hospitality Suite at group rate• Complimentary internet in all guest rooms• Reduced Valet Parking of \$12.00 per vehicle per day• Lock in Food and Beverage prices at time of contract signing.						

LinkedIn Aquatic Plant Management Society Group
John D. Madsen, Moderator
Report to BOD, APMS, January 2014

1. The APMS LinkedIn group was formed on February 24, 2011; so the group has been in existence for approximately 3 years. The group currently has 827 members, up from 695 at the summer annual board meeting; an increase of 19% in just six months.
2. Discussions have not been as lively as in the first half of the year.
3. 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.

REPORT OF THE NOMINATING COMMITTEE
Mid-year APMS Board of Directors Meeting
January 14, 2014

During the business meeting at the 2014 annual meeting of the Aquatic Plant Management Society, it will be necessary to fill vacancies that will include Vice-President (replacing Rob Richardson), Treasurer (replacing Sherry Whitaker), and two Directors (replacing Larry McCord and Dave Isaacs).

The Nominating Committee respectfully requests board approval for the following slate of officers and directors.

- 1) Vice-President - John Madsen
- 2) Treasurer - Jeremy Slade
- 3) Director - Ryan Wersal
- 4) Director - Dick Pinagle

The Nominating Committee (included Terry Goldsby, Tyler Koschnik, Sherry Whitaker, Sue Cruz, Dave Isaacs, Jeff Schardt, Joe Bondra) have discussed and vetted these candidates and found them qualified and worthy.

Submitted by: Terry Goldsby, Nominating Committee Chairman

Program Chair Report to the APMS Board of Directors 2014 Board Meeting – Savannah, GA

In speaking with Larry McCord and Susan Wilde, I have decided to put together a special session likely the first day about Strom Thurmond Lake, or Clark Hill Lake, dependent upon which side of the state line you live on. Larry has given me some leads on potential speakers regarding their hydrilla management decisions. I spoke with Susan and she is going to give me a list of people who can speak regarding the AVM issues surrounding the lake. Between the folks that both Larry and Susan provide, I can hopefully put together a well rounded special session regarding this lake. And, since the Savannah River flows from this lake thru Savannah, I believe it is a locally pertinent topic.

I have been in contact with Josh Yerby, MSAPMS Program Chair, about the Joint Program. Dr. John Madsen has expressed interest to continue the MSAPMS Short Course prior to the meeting. I've been in discussions with John regarding moving the short course to after the meeting to allow APMS board members to attend. Nothing final has been decided about the time for the short course.

Here is an email from Josh with MSAPMS room requests:

Cody,

At the upcoming APMS meeting, the MSAPMS would like to have a few things, they are as follows:

1. A room reserved for a BOD meeting, pre-meeting. Preferably Sunday afternoon.
2. Another room reserved for a Business meeting immediately followed by a BOD meeting, post meeting. Preferably after the end of the last session.
3. Finally one last room, preferably the smallest one possible and beside either the men's room or the garbage dump but we will settle for a porta-potty. We would like this room reserved for the entire session and to be used exclusively for any Auburn fan that makes any snide remark about the previous Iron Bowl.

I will start gathering talks to fill half a day for our session. If at any time you see I need to get more/less talks let me know. Thanks!

Josh Yerby
Environmental Affairs
Alabama Power

I wonder if he feels the same about Sooner fans, as well?

Respectively submitted,

Cody Gray

STUDENT AFFAIRS REPORT

Date: January 3, 2014
Committee: Rebecca Haynie, Chair
Chris Mudge, Co-Chair

Participants: We had outstanding participation at the 2013 San Antonio Meeting with nine student presenters, four new and five returning, from five different Universities: NC State, UGA, University of North Texas, TAMU, Mississippi State, and Durango Institute of Technology, Durango, Mexico. Each student presenter received complimentary registration, APMS membership, and lodging. In addition, each student presenter received a textbook of his/her choice. Thanks to our wonderful volunteer judges and the Society, we were able to award cash prizes to the deserving winners of the Student Paper and Student Poster Competitions. The winners were:

Student Poster Competition

1st place Kristi Woodard, University of North Texas

2nd place Elizabeth Edgerton, Texas A&M

Student Paper Competition

1st place Sarah True Meadows, NC State

2nd Bradley Sartain, Mississippi State

3rd Brett Hartis, NC State

Recruitment: We will send the call for student papers in April. Chris and I will make an effort to personally contact local (Southeast) colleges and universities to increase participation. We will send the announcement to all chapters to include in newsletters, websites. Chris and I welcome any efforts and/or ideas to increase student participation.

Accommodations: As students register, Chris and I will compile a list by gender and arrival/departure date. Student rooms will then be reserved by Bill Torres and the confirmation numbers sent to the students.

Books: Each student will receive a textbook of his/her choice. We will have the books sent to the hotel and arrange payment with Sherry. I received a comment last year from a member that book purchase should be limited to an aquatics-related subject (i.e. not purchasing expensive textbooks for other coursework, like "Food Chemistry"). I would appreciate the Board's input on this change.

Luncheon: SePRO will sponsor a student luncheon. Chris Mudge will begin recruiting a speaker for the lunch. The past 2 years we have had early-career, former student members speak to the students.

For the 2013 meeting, all students attended the luncheon (on Monday). West Bishop spoke to the students about the importance of students in the APMS organization and how he has benefited from involvement with the society. Elizabeth Edgerton, Texas A&M, was elected by her peers to serve as the 2013 Student Representative. Outgoing Student Representative, Casey Williams, did an exceptional job.

Judges: We will be recruiting judges for student contest(s) during the coming months. We had good participation by the students for judging exhibits and nonstudent posters. We will enlist students to help again this year.

Tour: The 2013 Student tour was well-attended and successful. Casey Williams, the student rep, was local and handled all the arrangements, including van rental.

John Crab, of Estate Management and a SCAPMS board member, has volunteered to assist with the 2014 Savannah student tour. SePRO (Todd Horton) will also assist. We will visit coastal and inland application sites and will have a draft agenda put together by March 1. I have contacted local DNR personnel as well; accessing application and/or wetland sites should not be an issue. Depending on the number of participants and our tour guides, van rental may not be necessary. We ask the board to support student lodging and meals for the tour.

- We request that Bill Torres coordinate with the hotel to include an extra night of lodging for the students (Wednesday night) and to provide box lunches for the students (and guides) participating in the tour.

Website Committee Report
APMS Mid-Winter Board Meeting
January 2014

I think the website is firmly in place and working well. The staff of APEX webstudios has been responsive to our suggestions and has completed tasks in a very timely manner.

The online payment system has been constructed and is awaiting launch instructions. David Krueger has offered the following narrative regarding the launch of the system:

Ryan, the payment system is in place. Just give me a couple weeks notice before you want the online meeting registration, and the membership online renewals to go live. It was mentioned that membership invoices would go out in January and meeting registration a couple of months later. Those are the dates I was planning for. If that's not correct let me know.

The Board just has to indicate when the system should go live and David and his group will activate it.

Website usage is largely by people in the United States as indicated by site visits collected by Google Analytics (Figure 1). However, the number of visitors from other countries has been steadily increasing with India having more visits than other countries between February 2013 and December 2013. The Philippines had the highest percentage of new visitors to the website followed by Germany, India, and the United Kingdom. It may be beneficial as a Society to reach out to colleagues in these countries to promote the APMS.

Furthermore, the pages viewed by visitors may also allow the Society to better prioritize key projects to help gain recognition and grow membership. After the main home page, visitors viewed more pages and spent more time on pages related to the journal than any other area of the website (Figure 2). After the journal visits, the annual conference pages were viewed the most followed by the blog and the jobs postings. Page views may help create content to better reflect what website users are looking for and to develop those areas of the website accordingly.

Pursuant to aforementioned website data, the website committee brainstormed via email and came up with some ideas to increase content and awareness on the APMS website.

Ideas included:

- Ask major professors to have students submit short 1-2 page research findings each year on projects of interest where data could be shared.
- Emerging aquatic invasive spotlight and management options if they exist.
- Ask UF, NCSU, MSU, and other universities to access some of their material such as weed ID, weed control guidelines, factsheets, and videos.
- Tie into John Madsen's LinkedIn "Ask an Expert" section and have it appear directly on the website.
- Provide video of the different Chapter's Workshops.

- Find ways to expand the marketing of the Journal to gain more recognition. Is it time to formally apply for an Impact Factor? Having an Impact Factor and working to improve the number may increase subscriptions and submissions especially from the international audience. Can Allen Press help with this?

Lastly, I have communicated to both Cody Gray and Mike Netherland that as of the July 2014 meeting I will be stepping down as the Chair of the Website Committee. I have accepted other opportunities that will require more of my time, and fully understanding the importance of the website I did not want this project to be ignored. With respect to the website, the past four years have been very stressful at times in making the decisions and changes that were made. That being said, I think what has been put in place is a great starting point for someone to build upon; and it would be my recommendation that that someone would have some knowledge of websites and design to help facilitate the growth and promotion of the website and Society. I will continue to work with the new Website Chair if that person so chooses.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "R. Wersal".

Ryan Wersal, Website Committee Chair
Jonathan Fleming, Committee Member
Debbie McBride, Committee Member
Justin Nawrocki, Committee Member
Karen Brown, Committee Member

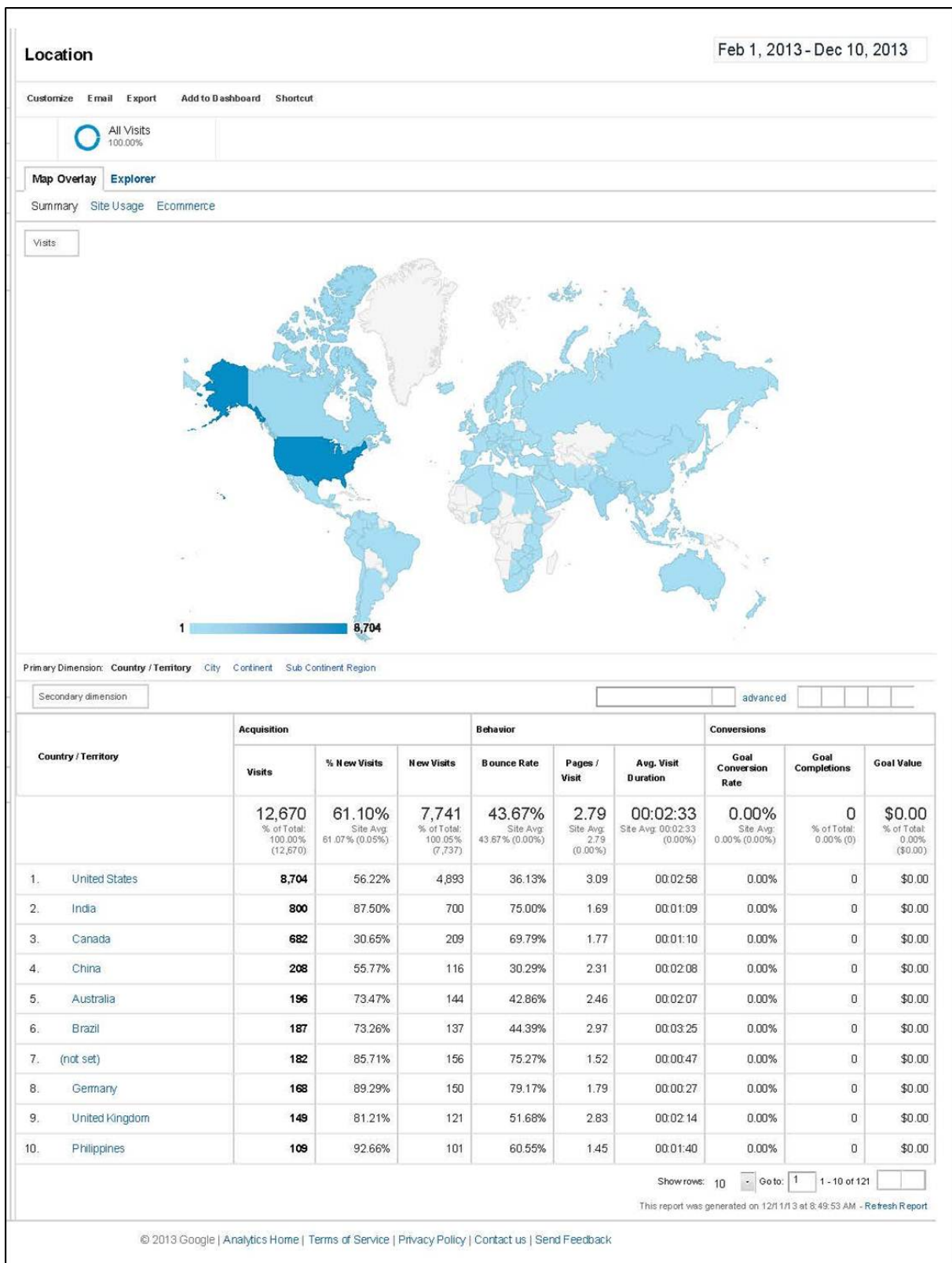


Figure 1. Website visits to the APMS site from select countries. Only the top 10 viewing countries are shown.

Primary Dimension: Page Page Title Other			
<input type="checkbox"/> Plot Rows	Secondary dimension	Sort Type:	Default
<input type="checkbox"/>	Page	Pageviews	Unique Pageviews
		35,314 % of Total: 100.00% (35,314)	25,142 % of Total: 100.00% (25,142)
<input type="checkbox"/>	1. /	9,364	7,262
<input type="checkbox"/>	2. /journals/	3,380	1,995
<input type="checkbox"/>	3. /annual-meeting/current-annual-meeting/	3,080	1,960
<input type="checkbox"/>	4. /2012/01/journal-volume-50/	1,118	851
<input type="checkbox"/>	5. /category/apms-blog/	866	528
<input type="checkbox"/>	6. /category/jobs/	795	688
<input type="checkbox"/>	7. /regional-chapters/	741	469
<input type="checkbox"/>	8. /member-login/	688	294
<input type="checkbox"/>	9. /annual-meeting/2014-annual-meeting/	566	474
<input type="checkbox"/>	10. /category/aquatic-plants/	543	296

Figure 2. Page visits to specific areas of the APMS website.

B.A.S.S. Report
Submitted to the APMS BoD 1/14/2014
Gerald Adrian

B.A.S.S. Activities:

BASS Conservation Award sponsored by AERF and APMS

The BASS Conservation Award sponsored by AERF and APMS will be awarded to the Oconee Lake Bassmasters for their project to establish water willow in three Corps of Engineers lakes: L. Oconee, L. Richard B. Russell, and Lake Jackson. This is an ongoing project and was judged the winner by Dr. Mike Netherland and the new BASS Conservation Director, Gene Gilliland. Tony Beck is the State Conservation Director for the state of Georgia and will attend the 2104 APMS Meeting in Savannah where he will make a presentation about the winning project. I've included the application and documentation for the Award. It will be presented to Tony and the Lake Oconee Bassmasters at the Bassmasters Classic February 21-23. The Awards dinner will be on Saturday, February 22nd. I plan to attend the Classic and the Awards dinner.

I propose we continue to sponsor this Award with the same commitments from AERF (\$2000) and APMS (travel stipend and waive registration costs).

BASS Names a New Conservation Director

Bass has announced that Gene Gilliland, Asst. Chief of Fisheries for the State of Oklahoma will be the new Conservation Director for the organization. Gene has been involved in tournaments and conservation projects in Oklahoma for over 20 years. He has attended all of the symposiums at the BASS events sponsored by AERF and APMS. We believe Gene will be an ally of our industry and will continue to work with both organizations. (See Attached).

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 (as 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. We've been very fortunate for the past several years and trust that B.A.S.S. will employ another potential ally for our industry.

Veteran Conservation Leader Named To Head B.A.S.S. Conservation Program



Gene Gilliland, currently assistant chief of the Fisheries Division of the Oklahoma Department of Wildlife Conservation, retires from the department to become B.A.S.S. National Conservation Director in 2014.

BIRMINGHAM, Ala. — Gene Gilliland, a widely respected bass biologist and conservation advocate from Oklahoma, has been named B.A.S.S. National Conservation Director. Gilliland replaces Noreen Clough, the longtime conservation director who retired earlier this month.

“In addition to his extensive experience in fisheries management, Gene has been a leader in the B.A.S.S. Nation, an outdoor journalist, an avid tournament angler and a tireless proponent of youth fishing,” said B.A.S.S. CEO Bruce Akin. “He is a charter member of B.A.S.S., and he has been involved in the B.A.S.S. Nation Conservation program for two decades.

“America’s bass fishermen are fortunate that Gene has accepted our invitation to fill this vital role.”

Gilliland is currently assistant chief of the Fisheries Division of the Oklahoma Department of Wildlife Conservation. He will retire from the department on Dec. 31, 2013, and join B.A.S.S. immediately afterward. Gilliland began work with ODWC in 1982 as a fishery biologist, later rising to regional supervisor and then assistant chief of fisheries in 2010.

Gilliland said he relishes the opportunity to have a positive influence on bass fishing and on its resources.

“Everyone, from the novice angler to the dedicated B.A.S.S. member to the professional at the Bassmaster Elite Series level, has a stake — an obligation — to protect our aquatic resources,” Gilliland said. “Our challenge is to educate them, then motivate them to take action that will make a difference.”

As national conservation director, Gilliland will represent America’s bass anglers on national boards and councils involved in resource conservation. In addition, he will oversee the efforts of the 47 B.A.S.S. Nation conservation directors and work to make conservation principles relevant to every B.A.S.S. member. He will also be responsible for maintaining and improving fish care practices on each of the Bassmaster tournament circuits. Gilliland has assisted in fish care at the Bassmaster Classic each year since 1994, including the 2013 Classic in Tulsa, Okla., when 100 percent of the bass weighed in were released alive in Grand Lake O’ the Cherokees.

Gilliland credits Clough as a valuable mentor. “She worked with the B.A.S.S. Nation conservation directors and developed a vision for the conservation program’s future.

Personally, she helped me better understand how to navigate government bureaucracy and get things done to improve fishing,” he said. “B.A.S.S. Conservation works with partners on so many levels — local, state, regional and national — to address the threats that our freshwater resources face. One of our biggest challenges will be helping the general public understand that what is good for the fish is good for them, too.”

Gilliland has a B.S. degree in Wildlife and Fisheries from Texas A&M University and a master’s degree in Fisheries Biology from Oklahoma State University. He is a coauthor, along with Hal Schramm, of “Keeping Bass Alive, a Guidebook for Tournament Anglers and Organizers.” He is a regular contributor to the “Bass Biology” column in *B.A.S.S. Times* magazine and has been published in numerous other outdoor publications.

An avid tournament angler since high school, he joined the North Oklahoma City Bassmasters in 1993 and served as the club’s president from 1999 until 2010. He was Oklahoma B.A.S.S. Nation conservation director from 2005 to 2010 and was named Conservation Director of the Year in 2009. He helped incorporate the CastingKids program into boat and tackle show programs in Oklahoma, he helped organize the Oklahoma City Junior Bassmasters club in 2005 and served as the state’s B.A.S.S. Nation youth director in 2007 and 2008.

Gilliland joined B.A.S.S. in 1969 because of its focus on friendly competition, youth fishing and protecting the resource.

“I want to continue the conservation legacy that Ray Scott and the B.A.S.S. conservation directors before me have established,” he said. “B.A.S.S. Conservation has always been a voice for anglers, fighting to preserve and enhance aquatic resources for the future of fishing. I want to make sure that our voice is still heard loud and clear.”

CAST Representative Report
Ryan Wersal
APMS Mid-Winter Board Meeting
January 2014

“CAST assembles, interprets, and communicates credible science-based information regionally, nationally, and internationally to legislators, regulators, policymakers, the media, the private sector, and the public.” [CAST mission statement]

The CAST annual meeting was held October 29-31, 2013 in Atlanta, Georgia. John Madsen and I attended the meeting as well as the Plant Work Group Meetings.

Our commentary paper “Benefits of Controlling Nuisance Aquatic Plants” is currently with the CAST office and staff are combining first drafts and editing for review. A draft may be available early 2014. The work on this paper has been under the guidance Kurt Getsinger (Chair) and John Madsen (CAST liason).

Other paper ideas that would have interest from APMS readers include:

- Recruiting and Educating Graduate Students to Become Researchers and Leaders in Global Agricultural Sciences
- What is the Federal Government’s Role in Crop Protection Research
- Water Quality and the Impact of Crop Agriculture, Potential Remediation
- A Rational Framework for Selecting Biofuel Feedstock
- The Benefits of Pesticide to Public Health and Modern Agriculture

These papers if written would address the need for increased investment in graduate student funding, maintaining and building federal funding programs for basic and applied research, and maintaining quantity and quality water.

Similar to other Societies, CAST BOD members spent a considerable amount of time discussing the current financial situation and how to attract new members, both individual and company sponsors. The APM field has benefited from CAST and I would recommend that the APMS remain a member of CAST and promote more of our members to join CAST. The CAST organization as whole is very interested in APM issues and acknowledge the link between how aquatic plants (invasive) can affect water quality and supply resulting in reduced agricultural production.

Respectfully submitted,



Ryan M. Wersal, PhD

NALMS Representative Report
December 23, 2013
From: Terry McNabb

I began my term as President during our annual meeting this past October. This meeting was attended by about 375 people and is down somewhat. It hit in the middle of the government shutdown. There were a number of papers in two invasive macrophyte sessions that were interesting and well attended. The sessions on HAB and Cyanobacteria were of special interest to me as we are running into this more and more in our work as aquatic plant managers. The program along with the abstracts are available at www.nalms.org on the front page if people are interested in seeing what was presented. The abstracts to a good job of that.

I received the APMS booth and set it up and managed it through the tradeshow portion of the meeting. We seemed to get pretty good traffic and the majority of the literature that Mike provided with the booth was absorbed by the crowd so hopefully we (APMS) got some response. I'd like to see us continue to trade booth space at the meetings this year. Last year NALMS offered a comp space to APMS and vis versa.

This month I will be appointing Jason Yarbrough from TVA as the Region 4 Director (AL-FL- GA-KY-MS-NC-SC-TN). He wrote our strategic plan this past year and is involved in the TVA Aquatic Plant Management activities as I understand it. Our Region 2 Director Chris Mikolajczyk works for Princeton Hydro and with their aquatic plant management group. Our president elect is Reed Green with USGS and he used to work in the Corps Aquatic Plant Control Research Program so we are getting some people in the loop here that know more about our work.

NALMS is the host of the Biannual National Water Quality Monitoring Council's Meeting. This meeting was last held in Portland Oregon in 2012 and attracted about 1200 people. This year we will be hosting this meeting in Cincinnati from April 28th through May 2nd if there are interested members of APMS. I didn't go last time, plan to attend some or all of it this year as we will have our mid-year board meeting there. More information is available at www.acwi.gov/monitoring/

The NALMS annual meeting will be in Tampa, Florida this year. It will be around the first week in November and headquartered at the Marriot on the Waterfront. That should be a good opportunity to present papers for those interested. It will be cohosted by the Florida Lake Management Society. The call for papers and meeting information should be on the web site in the near future, www.nalms.org

Our last issue of Lakeline was focused on "Putting the Lake Back in Lake Management" and featured a number of articles focusing on the lack of funding for inlake restoration technologies and an over focus on expensive watershed fixes that don't often do anything to protect the lake. Dr. John Madsen contributed an excellent article on Invasive Aquatic Plants. This magazine was shared with some legislative groups and is available as a tool to help with this key effort and may be something APMS wants to look at and incorporate in legislative efforts.

If there is anything the Board wants me to present or discuss with the NALMS board, we have a monthly conference call where I set the agenda and we meeting in person in April and again in November.

Thanks for your consideration.

**Weed Science Society of America (WSSA) – Report to the APMS Board of
Directors
2014 Board Meeting – Savannah, GA**

The Weed Science Society of America held its summer board of directors meeting in Vancouver, British Columbia, July 9 and 10, 2013 at the Hyatt Regency.

The 2014 meeting will be a joint meeting with the Canadian Weed Science Society.

The WSSA membership currently stands at 1239 total members, and expect to gain a few additional members until September.

An herbicide resistance workshop is in the initial planning stages with the overall goals to be:

- Present ideas and description of programs that could have a positive impact on the adoption of integrated herbicide resistant weed management strategies on a broad scale.
- Recognizing that growers make the ultimate decision to adopt BMPs, better understand the role that all stakeholders can play in farm stewardship, including sustainable weed management.

The impact factors for the journals were released in June 2013 for the preceding year. The impact factors for the WSSA journals were the following:

- Weed Technology 1.113 (decrease)
- Weed Science 1.759 (increase)
- IPSM 0.982 (1st year)

The EPA approved the use of Arundo and Napiergrass for biofuel production. The final rule and a fact sheet describing the rule can be found at:

<http://www.epa.gov/otaq/fuels/renewablefuels/regulations.htm>

Future WSSA Board of Director meetings:

Feb. 1-2, & 6, 2013 – WSSA Annual Board Meeting – Vancouver, Canada

Future WSSA meeting schedule:

- 2014: Feb. 3-6, 2014 – Hyatt Regency Vancouver, Vancouver, Canada
- 2015: Feb. 9-12, 2015 – Hilton Lexington Downtown, Lexington, KY
- 2016: Feb. 8-11, 2016 – Sheraton Puerto Rico, San Juan, PR
- 2017: Feb. 6-9, 2017 – Hilton El Conquistador, Tucson, AZ

Respectively submitted,

Cody Gray

**THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.
OPERATING MANUAL**

August 2013 Update

Operating Task Calendar for Officers, Directors, Committees, and Special Representatives

Preface

This manual serves as a guide for officers, board members, committee chairpersons, special committees, and representatives of the Aquatic Plant Management Society in the discharge of their duties of office. These guidelines are intended to be in compliance with the Bylaws, yet flexible enough to meet administrative and functional needs of this Society. This should not in any way stifle the creativity of officers or committee chairs in pursuing the goals and purpose of the Aquatic Plant Management Society, Inc.

Gratitude is extended to the Weed Science Society of America, Western Weed Science Society, and numerous members of the Aquatic Plant Management Society for their contributions to the formation and subsequent revisions of these guidelines.

**CHAPTER I
DUTIES OF OFFICERS AND DIRECTORS**

President

1. Maintain and exercise general supervision over the affairs of the Society.
2. Preside over all business meetings of the Society, annual and special.
3. Preside over all Board of Directors meetings.
4. Approve all payments made by the Treasurer.
5. May sign checks in payment of obligations of the Society during the absence of the Treasurer.
6. Discharge such other duties as usually pertain to the Office of the President.
7. Uphold the spirit of the Constitution and Bylaws of the Society and cause the decisions of the Board of Directors to be carried out.
8. Upon assuming office, or soon thereafter, appoint Chairs to all Standing Committees listed in Chapter II, ad hoc special committees, and Special Representatives listed in Chapter III.
9. Maintain close liaison with all committees of the Society throughout the year to encourage and assist them in fulfilling their duties and responsibilities to the Society.
10. In conjunction with the Secretary, prepare an agenda for Board of Directors meetings.
11. Maintain liaison throughout the year with the Program Chair, Meeting Planning Chair, the Secretary and the Treasurer in planning the program for the Annual Meeting.

12. Keep the Board of Directors and Society members advised on matters of importance to them and their Society, and solicit their suggestions and advice.
13. Maintain liaison with other societies and organizations with related interests and objectives of the Aquatic Plant Management Society.
14. Confer the President's Award upon any member, or non-member of the Society for distinguished service to the Society and meeting other criteria as may be set forth in Chapter IV, Section A of this Operating Manual. Such action requires a majority approval of the Board.
15. Provide names for the President's Award and/or any other special recognition designations to the Awards Committee in sufficient time for inscriptions of plaques or other honorary tokens.
16. Prepare cover letters and sign as Society President, resolutions passed at business meetings for distribution as designated by the resolutions.
17. Preside over the Annual Meeting General Session and the Annual Business Meeting.
18. Ensure that proposed Bylaws changes and biographies of Officers and Board of Directors nominees are published in the Newsletter at least thirty (30) days prior to the Annual Meeting.
19. Publish the list of Committee Chairs and committee members in the first newsletter following the Annual Meeting.
20. Delegate and empower the Secretary to solicit written reports from Committee Chairs and Special Representatives about five (5) weeks prior to the mid-year and summer Board meetings in time to compile Board Books.
21. Request the Secretary send Board Books to Board members prior to Board meetings whenever possible.
22. Write articles for the newsletters to report information of interest to Society members.
23. The President may use all, or part, of the budgeted discretionary expenses set by the Board of Directors for costs incurred in preparation for, or at, the Annual Meeting and for approved support of travel associated with the business of APMS.
24. MC the Annual Meeting Awards function covering the following items:
 - a. Acknowledge the efforts of the Meeting Planning Committee.
 - b. Acknowledge all Past Presidents in attendance.
 - c. Present plaques/certificates of appreciation to outgoing Board members (Officers and Directors).
 - d. Introduce newly elected Board members and Officers.
 - e. Recognize all Honorary Members in attendance
 - f. Introduce Exhibits Committee Chair for presentation of exhibitor's award.
 - g. Introduce Student Affairs Committee Chair for student paper contest awards.

- h. Present the President's Award, T. Wayne Miller Distinguished Service Award, Max McCowen Friendship Award, and all other awards (where applicable).
- 25. Ensure that a representative of the Aquatic Plant Management Society attends the Weed Science Society of America (WSSA) breakfast meeting of Presidents from WSSA affiliates.
- 26. As designated by the WSSA, serve as an ex officio member of the WSSA Science Policy Committee.
- 27. Forward President's files to the newly elected President within one (1) month of leaving office.
- 28. Work with the Treasurer to approve travel reimbursement requests from Officers and Directors, or invited Committee Chairs or Special Representatives, to attend board meetings.
- 29. Attend the Past-President's Breakfast Event that is held at each annual conference.

President-Elect

- 1. Perform the duties and exercise the powers of the President in the absence or disability of the President; or in case of a vacancy in the office of President.
- 2. Perform duties assigned by the President, or the Board of Directors.
- 3. Serve as Chair of the Program Committee with the following responsibilities:
 - a. Develop the focus, objectives and/or theme for the Annual Meeting program.
 - b. Arrange for keynote speaker and other guest speakers.
 - c. Keep the expenditures for stipends needed for key speakers' expenses within the \$4,000 allowance for this purpose (2011 allotment).
 - d. Coordinate with the Secretary, Treasurer, and the Meeting Planning Committee, to ensure all program needs are met; i.e. speaker rooms, visual aids equipment, audio equipment, poster session space and easels, etc.
 - e. Provide the Secretary with a "First Call for Papers" form to be published in the first newsletter following the Annual Meeting.
 - f. Coordinate with the Student Affairs Committee Chair to ensure sufficient speaker slots are available early in the meeting for student papers to allow time for judging decisions. Also ensure student presentations are designated as such within the program.
 - g. Provide the Secretary and Website Committee Chair with a preliminary draft program in ample time for printing in the spring newsletter and a final version in time for printing prior the Annual Meeting.
 - h. Provide the Secretary with a compilation of electronic copies of paper and poster abstracts coinciding with the meeting format in time for printing prior to the Annual Meeting.
 - i. Select session moderators and provide them with appropriate instructions regarding time limits, speaker introduction materials, etc.
 - j. Propose joint meetings and/or symposia whenever appropriate.

4. Forward the President-Elect files to the new President-Elect within one (1) month of leaving office.

Vice President

1. Exercise the powers and perform the duties of the President-Elect in the absence or disability of the President-Elect.
2. Perform duties assigned by the President or the Board of Directors.
3. Assist the President-Elect with program development and implementation.
4. Serve as a member of the Membership Committee, Publications Committee and the Strategic Planning Committee.
5. Strive to determine Society member interests and concerns.
6. Take the lead for APMS in conjunction with the APMS Chapters (when applicable) to handle responsibilities associated with the APMS Graduate Student Research Grant to include but not be limited to:
 - a. Solicit APMS Chapters (and other potential sources) for funding.
 - b. Administer all aspects of this currently every other year award (depending upon the year and status) including an announcement of its anticipated availability and qualifications (via newsletters, websites, etc.), set proposal deadlines (follow suggested timeline in Chapter IV, Section E), collect and review submissions in conjunction with an ad hoc review committee mutually agreed upon between APMS, APMS Chapter representatives, and other entities that have contributed funds to the Grant.
 - c. Secure the assistance of the Scholastic Endowment Committee to help with solicitation of donations within and outside of the Society.
 - d. Update Chapter IV, Section E of the Operating Manual as necessary to reflect current information.
7. Support Regional APMS Chapters by:
 - a. Serving as Chair of the Regional Chapters Committee (see duties).
 - b. Initiate collaborative efforts in advancing Society goals through Regional APMS Chapters.

Secretary

1. Prepare and keep full and correct minutes of all meetings of the Society and Board of Directors.
2. Maintain complete Society membership records. Board of Directors approval is required for release of Society records to persons or organizations outside the APMS.
3. Prepare and distribute meeting notifications.

4. At the direction of the Board of Directors, serve as an alternate for access to Society bank accounts and co-signing of checks.
5. Ensure that the Society newsletter is assembled, published, and distributed at least three (3) times a year at times appropriate for the effective promotion of Society activities and objectives.
6. Conduct such correspondence for the Society as is appropriate for Secretaries of this type organization.
7. Maintain a calendar of events for the Society.
8. Assist the President by keeping the Board of Directors advised on significant activities of the Society.
9. Receive and fill orders for publications.
10. Provide mailing labels as needed for Society business.
11. Conduct timely Society mailings to promote membership participation in all events promoted by the Society.
12. Arrange for the final printing of the Annual Meeting Program and Abstracts as provided by the Program Committee Chair.
13. Relay to the Awards Committee the list of recipients for plaques, certificates, and other items to be presented to Honorary members, outgoing Officers and Board members, and other awards presented by the Society.
14. Make provision for registration at the annual meetings.
15. Serve as Archivist of the Society and carry out the following:
 - a. Accumulate new documents as they appear, catalog them, and periodically forward them to archives location at the storage location designated by the Board of Directors.
 - b. Establish guidelines and procedures for the deposition of Society records into the archives as appropriate.
 - c. Oversee the use of the archives by APMS members and by the general public.
16. Serve as an ex officio member of the Membership Committee and maintain a current (paid) membership mailing list in conjunction with dues payment verification by the Treasurer
17. Immediately update the Website Committee Chair of any additions or deletions from the active membership roster.
18. Serve as an ex officio member of the Publications Committee.
19. Submit a proposed annual budget request to the Finance Committee for incorporation into the Society budget for approval by the Board of Directors.

Treasurer

1. Secure or maintain for the Society's Officers and Directors a good and sufficient surety bond in an amount not less than the total assets of the Society.

2. Collect and receipt all dues, assessments, and other income.
3. Deposit promptly all funds of the Society in such depository as shall be approved and designated by the Board of Directors. (Banking accounts currently held at The State Bank (175 N. Leroy Street), Fenton, Michigan)
4. Issue checks for payment of Society obligations as are necessary and approved incidental to the operation of the Society. All payments require approval by the APMS President.
5. Prepare financial statements which accurately and clearly reflect the financial status of the Society for study by the Finance Committee prior to Board meetings, and for reporting to the membership at the Annual Meeting.
6. Provide for an annual audit of Society financial records by a Certified Public Accountant (Currently, Winston, Williams, Creech, Evans and Company, LLP, Oxford, NC).
7. File annual income tax returns with assistance by a Certified Public Accountant.
8. Provide documents to the Finance Committee Chair for annual internal audit.
9. Maintain Society "incorporation" status.
10. Perform such duties as are usually incident to the Office of Treasurer and as may be assigned by the Board of Directors.
11. In conjunction with duties and participation on the Finance Committee, prepare an annual budget for approval by the Board of Directors at the mid-year Board meeting.
12. Arrange for the President and the Secretary, if required, to be designated as legal alternates for access to Society bank accounts in the event of incapacitation of the Treasurer.
13. Immediately notify the Secretary of any changes in membership status and in conjunction with the Secretary prepare and mail Society dues notices by January 31st of each year.
14. Maintain complete, accurate financial records at all times.
15. Manage savings certificates and other financial resources of the Society to the best advantage of the Society with advisement from the Finance Committee.
16. Maintain records of property owned by the Society; e.g., back issues of publications, equipment, etc.
17. Serve as a member of the Strategic Planning Committee.
18. Maintain Officer, Director, and general liability insurance (Currently with Brown and Brown Insurance, Rep. Sue Kimmerling, 1190 Torrey Road, Fenton, MI 48430; 810-714-4603).
19. Work with the President to approve travel reimbursement requests from Officers and Directors, or invited Committee Chairs or Special Representatives, to attend board meetings.
20. Track travel expenses for Board members to attend meetings as part of the Treasurer's report at the annual and mid-year meetings.

Immediate Past President

1. Serve as an advisor to the President.
2. Serve as Chair of the Nominating Committee.
3. Serve as Chair of the Past Presidents' Advisory Committee.
4. Serve as a member of the Strategic Planning Committee.
5. Review and make revision recommendations as deemed necessary for the APMS Operating Manual in compliance with the current Bylaws and policy decisions of the Board.
6. Make recommendations to the Bylaws and Resolutions Committee of proposed changes in operations of the Society requiring Bylaws changes.
7. Examine the aims, purposes, and goals of the Society to ascertain their relevance. If deemed important, make recommendations to the Strategic Planning Committee regarding implementation, increased concentration, or changes in aims, purposes, and/or goals of the Society.
8. Assist the Secretary with maintaining up-to-date addresses for all Past Presidents.
9. Arrange the Past Presidents' luncheon at the APMS Annual Meeting. Prepare a luncheon agenda and/or discussion items to encourage continued Past President involvement in the Society and to promote fellowship.
10. As designated by WSSA, serve as a member of the WSSA Nominating Committee.
11. Perform other duties delegated by the President or the Board of Directors.

Editor

1. Serve as Editor for the *Journal of Aquatic Plant Management* (JAPM) and carry out the following:
 - a. Publish the Journal twice a year; January and July.
 - b. Receive manuscripts (solicited and unsolicited) from contributors.
 - c. Notify contributing authors of receipt of manuscript(s) and send to at least two (2) independent peer reviewers who are recognized authorities in their respective fields, or send to Associate Editor(s) for handling through the review stage.
 - d. Consider recommendation of reviewers, resolve different opinions, notify authors of requirements for continued publication considerations, and work with authors until the manuscript is ready for publication.
 - e. Provide the printer with an original, corrected manuscript for production of galley proofs.
 - f. Send galley proofs to author(s) for final checking along with reprint ordering information.
 - g. Send corrected proofs to the printer along with reprint order.
 - h. Review page proofs prior to printing of each Journal issue.

- i. Secure envelopes and mailing labels from the Secretary for use by the printer for mailing the Journal and reprint orders.
 - j. Send invoices to authors for reimbursement for reprints and page charges covering approximately one-half the cost of the printing charges unless otherwise recommended by the Editor and approved by the Board.
2. (May) request a personal stipend requiring approval from the Board of Directors. As a guideline, the 2010-2011 approved stipend was \$4,000.
3. Recommend any changes in charges for library subscriptions to the Board for approval as may be deemed necessary to cover costs.
4. Ensure the printer provides an electronic copy of the Journal.
5. Publish and distribute other scientific publications of the Society.
6. Serve as Chair of the Publications Committee, accepting the responsibility for the quality and quantity of all Society publications. Editorial policy is governed by the Committee, but final authority on matters of policy resides with the Board of Directors.
7. Appoint, as deemed necessary, Associate Editor(s), who will serve on the Publications Committee to assist the Editor with the publication of the Journal by performing the following type of activities:
 - a. Solicit manuscripts for the Journal.
 - b. Conduct reviews as assigned by the Editor.
 - c. Furnish the Editor lists of reviewers used by the Associate Editor(s) in the review of manuscripts.
 - d. Become familiar with the procedures for publishing the Journal in order to continue the timely publication in case the Editor cannot discharge those duties.

As the Editor approaches the completion of the term(s) of service, he/she should consider and recommend to the Nominating Committee an Associate Editor as successor to the position. The Editor should work with that individual to make sure they can step in and serve as Editor upon election.
8. The Editor, along with the Associate Editor(s) shall confer the Outstanding JAPM Article Award in accordance with procedures and criteria defined in Chapter IV, Section A of this Operating Manual. Such action requires a majority approval of the Board.

Directors

1. Shall serve a three-year term on the Board of Directors (with the exception of the Student Director which shall be a one (1) year renewable term).
2. Shall assist in administering the affairs of the Society.
3. Shall attend all Board of Directors meetings during their term.

Board of Directors

1. Manage the affairs of the Society and develop the policies and general programs.
2. Have full power of the Society in all matters demanding action between meetings.
3. Provide rules and regulations for the conduct of the affairs of this Society which are consistent with the provisions set forth in the Bylaws.
4. Submit for approval by the membership of the Society a report of all actions taken by the Board under the authority of the Bylaws.
5. Fill any vacancies among the Officers of the Society including membership of the Board of Directors in accordance with Bylaws provisions.
6. Prescribe the duties of the Officers not prescribed in the Bylaws or this Operating Manual.
7. Ensure the existence of a current surety bond in an amount not less than the total assets of the Society covering all Officers and Directors.
8. Secure and present reports from Standing Committees and Officers as necessary.
9. Complement the work of the officers of the Society as needed and requested.

CHAPTER II DUTIES OF COMMITTEES

Chairs of all Standing Committees are responsible for: 1) submitting written reports for the Board of Directors meetings in accordance with the Secretary's requested schedule, and; 2) providing an oral report on Committee activities during the Annual Business Meeting.

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.
 - d. Outstanding Graduate Student Award – check with current President as to recipients, if any.
 - e. Outstanding Research and/or Technical Contributor Award – check with current President as to recipients, if any.

- f. Outstanding International Contribution Award – check with current President as to recipients, if any.
 - g. 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. **Complete biographies for newly recognized Honorary Members and ensure they are posted to the website.**

Bylaws and Resolutions Committee

1. Be comprised of not less than five (5) voting members of the Society.
2. Consider all resolutions and Bylaws changes and present worthy suggestions to the Society in a form appropriate for adoption consideration.
3. Provide the Secretary with a written notice of Board approved proposed Bylaws amendments in time for publication in the Newsletter to be published at least thirty (30) days prior to the Annual Business Meeting.
4. Present for consideration by the Board and Society membership, all petitions with ten (10) or more signatures of voting members
5. Present proposed Bylaws amendments, as previously published, to the membership at the Annual Business Meeting as a part of the Committee report for the President to call for a vote.
6. Ensure approved Bylaws Amendments become an official part of the current Bylaws by submitting the revised document including the Amendment month and year to both the Secretary and the Website Committee Chair.
7. Notify the Chair of any Committee affected by Bylaws amendments to ensure they provide updated tasks, duties, procedures for the Operating Manual in order to comply with these changes.
8. Receive petitions for or submit on behalf of the Bylaws and Resolutions Committee recommendations for nominees for Honorary Membership as specified in Article XII of the Bylaws.
9. Provide the Awards Committee with names of approved, new Honorary Members for preparation of plaques.

10. Prepare for adoption consideration such resolutions as may be appropriate; e.g. hotel services, outstanding service by members or non-members, local arrangements, etc.
11. The Chair of this Committee shall serve as a member of the Strategic Planning Committee.

Education and Outreach Committee

1. Be comprised of no less than five (5) members, one of whom shall be the Chair of the Student Affairs Committee.
2. Identify specific educational needs appropriate for APMS sponsorship.
3. Solicit assistance and form sub-committees to deal with the identified educational needs and issues.
4. Assist the APMS in the coordination, development, and production of society-sponsored educational materials and programs.
5. Prepare and address funding strategies and budgetary needs at the Board of Directors Meeting.
6. The Chair of this Committee shall serve as a member of the Strategic Planning Committee.

Exhibits Committee

1. Provide an exhibit fee schedule recommendation to the Board of Directors specifying what is included and excluded from the fees (e.g., delegate registration, discounts for members, space allotments, electricity, etc.).
 - a. Prepare sign-up forms with Hold Harmless Disclaimer to accompany payment.
 - b. Obtain from the Meeting Planning Committee and/or the Meeting Planner, a floor plan indicating area, layout, accessibility, electrical service, etc., at the facility to determine maximum exhibit spaces.
2. Solicit potential exhibitors in sufficient time to secure their commitment to display exhibits for the Annual Meeting of the Society. Exhibit space will be allotted on a first come first served basis based upon receipt of signed forms and payment.
3. Coordinate all activities and requirements through the Meeting Planner; the Meeting Planner is the primary point of contact with hotel management and staff.
4. Coordinate with exhibitors over their booth requirements prior approval from the Exhibits Committee Chair.
5. Provide an option on the Exhibitors' form for Board approved non-profit organizations to exhibit at no charge providing suitable space is available after accommodating all paid commercial exhibitors.
6. Assign Exhibit Award judges (student paper and poster presenters are typically chosen as judges to encourage their involvement with the Society), assist with criteria, and present the Exhibit Award at the annual awards function.

7. Ensure that Exhibitor support is recognized at the Annual Meeting and sufficient time allotted on the Program to allow delegates to visit exhibits.

Finance Committee

1. Be comprised of not less than four (4) voting members of the Society, one of whom shall be the APMS Treasurer.
2. Review the Society records at the close of each fiscal year prior to the mid-year Board meeting and the official annual audit.
3. The Finance Committee Chair will conduct an internal audit of the Society's financial records near the time of the Annual Meeting and report the results of this audit to the Board of Directors at the post-conference Board meeting (IRS requirement).
4. The Finance Committee Chair will consult with the Treasurer on all investment strategies, including any necessary changes to current investments to keep the Society in good financial standing and aligned with Society objectives. The return on investments and any significant changes in the investments should be reported at each Board of Directors meetings. (APMS investments and banking currently held at The State Bank, 175 N. Leroy Street, Fenton, Michigan, with assistance of Mr. Dennis E. Leyder, President of Wealth Management)
5. Prepare a report detailing the financial condition of the Society for the mid-year meeting of the Board of Directors.
6. Prepare an annual budget for consideration and approval by the Board of Directors at their mid-year meeting.
7. Assist the Treasurer with establishing, implementing, and maintaining accurate Society financial records.
8. Assist the Treasurer in producing timely, accurate, easy-to-understand financial reports for the Board of Directors and membership.
9. Prepare a Financial Planning Policy to be included in Chapter IV, Section F of this Operating Manual, and update as economic conditions warrant.
10. Serve the Treasurer and Society in an advisory role with all matters pertaining to finances.
11. Review APMS contracts on an annual basis and report to the Board of Directors as to status.

Legislative Committee

1. Be comprised of not less than five (5) voting members of APMS.
2. Keep informed about existing, pending, or needed legislative or regulatory action of interest to the Society in order to make recommendations to the Board of Directors concerning the course of action to be considered.
3. Maintain a file on previously published legislative documents of interest to the Society and pass the file on to subsequent chair.

4. Consider the need for uniform state laws on aquatic weeds, herbicide labeling, and other subjects related to aquatic plant management.
5. Consider legislation involving the control of aquatic weeds on publicly owned land.
6. Recommend resolutions to the APMS Bylaws and Resolutions Committee as deemed appropriate.
7. Coordinate and communicate issues of national and/or regional concern with Special Representatives who may be involved with the same or similar activities.
8. Maintain liaison with the Animal Plant Health Service (APHIS) regarding the introduction of new plant species into the United States.
9. Provide an APMS representative for service on the WSSA Science Policy Committee. This individual should be able to attend the WSSA annual meeting and to participate in any educational endeavors regarding legislation and regulations favorable to APMS interests.

Meeting Planning Committee

1. Shall be comprised of at least three (3) voting members and shall include someone familiar and close to the region where the next meeting site is to be selected.
2. Solicit suggestions for meeting sites.
3. Direct the Meeting Planner to contact visitor and convention bureaus at candidate locations to obtain information useful for the site selection process.
4. Suggest three (3) candidate meeting sites utilizing the services of a Meeting Planner to secure associated costs for consideration by the Board of Directors including locations, facilities, approximate room and function costs.
5. Coordinate with the Meeting Planner in preparing the logistical aspects of the Annual Meeting.
6. Provide the Board of Directors with timely information useful in planning for the Annual Meeting.
7. Coordinate with the Meeting Planner all activities "outside" the hotel complex; e.g., the Tuesday night award function, tours, guest program, etc.
8. Solicit and secure donations/sponsorships for meeting functions from vendors, and other potential donors.
9. Assist in securing transportation for activities requiring this service.
10. Inform the Program Committee Chair of individuals who are potential meeting participants.
11. Provide the Secretary and the Website Committee with literature and contact information about local areas of potential interest to members attending the Annual Meeting (i.e., information about restaurants, scenic attractions, city maps, camping areas, etc.) for inclusion in the newsletter and on the website.
12. Suggest appropriate "local" speakers.
13. Coordinate its efforts with the Program Committee Chair.

Membership Committee

1. Be comprised of not less than five (5) voting members of APMS. Committee membership includes the Chair of the Student Affairs Committee and should include participation from the Regional Chapter members. The Secretary and Vice President will serve in an ex officio capacity.
2. Promote membership in APMS through the Regional APMS Chapters.
3. Investigate ways of increasing membership in APMS through other means and groups; e.g., WSSA, NALMS, international groups, etc.
4. Provide member information to the Awards Committee, as may be needed for inscriptions of plaques and certificates.
5. Inform the Society and assemble information on deceased members of the Society or others who have contributed significantly to the science of aquatic plant management.
6. Prepare letters of condolence for the President's signature to be sent to bereaved families of deceased members.
7. This Committee shall be responsible for retaining an official running list of Awards/Honors Recipients as provided annually by the Awards Committee. They will in turn provide the updated listing to the Website Committee Chair for posting on the website.

Nominating Committee

1. Be comprised of not less than five (5) voting members to be chaired by the Immediate Past President.
2. Be comprised of members that have not served on this committee for more than two successive years or have had a break in membership on the committee of at least two years.
3. Determine that potential nominees meet the criteria of being a voting member for three (3) years prior to nomination for office.
4. Determine that the prospective nominee is willing to serve if elected.
5. Present a slate of nominees to the Board of Directors for approval at the mid-year Board Meeting.
6. Following Board approval, recommend to the Society (typically a newsletter article) at least thirty (30) days prior to the Annual Business Meeting, a slate of candidates for election to the several offices as follows:
 - a. Two (2) members for 3-year terms on the Board of Directors.
 - b. A Vice President for a 4-year term; one year as Vice President, and succeeding years as President-Elect, President, and Immediate Past President.
 - c. An Editor every three (3) years to serve a 3-year term.
 - d. A Treasurer every three (3) years to serve a 3-year term.

- e. A Secretary every three (3) years to serve a 3-year term.
- 6. Prior to the Annual Meeting, secure the name of a qualifying student member nominee for Student Director to serve a one-year renewable term chosen by the Student Affairs Committee.
- 7. Prepare ballots and establish election procedures. For offices which have a floor nomination, provide ballot sheets at the registration desk immediately after the Annual Business Meeting. Members are checked for eligibility before receiving a ballot and return completed ballots to the registration desk. Members are allowed until the end of the last session of that day to vote. The Nominating Committee Chair is responsible for the collection and counting of ballots.
- 8. Prior to the Annual Meeting, provide a list of outgoing Officers and Directors to the Awards Committee for preparation of plaques/certificates of appreciation.

Past Presidents Advisory Committee

- 1. Be comprised of all Past Presidents of the Society who are members in good standing.
- 2. Be chaired by the Immediate Past President.
- 3. Examine the goals and aims of the Society from time to time; and make recommendations to the Board as deemed expedient.
- 4. Annually review and suggest changes to the Operating Manual and the Strategic Plan as may be appropriate to maintain consistency with the Bylaws or procedural decisions of the Board.
- 5. Develop policy statements related to pertinent issues concerning aquatic plant management.
- 6. Provide wise counsel to the Board and Society.

Program Committee

- 1. Consist of the members of the Board of Directors.
- 2. Be chaired by the President-Elect.
- 3. Develop the Program for the Annual Meeting of the Society.
- 4. Invite keynote speakers with expertise in the theme area wherein feasible.
- 5. Work within the established expense guideline (\$4,000) for paying stipends and expenses for outside invited speakers.
- 6. Work closely with the Meeting Planning Committee to arrange supplemental field trips relating to aquatic plant management wherein feasible.
- 7. Arrange for the Program to conform to the time schedule and schedule papers to fit subject area.

8. Coordinate arrangements for audio and visual aid equipment with the Meeting Planning Committee and the Meeting Planner.

Publications Committee

1. Be comprised of at least six (6) members including the Editor, Associate Editor(s), Secretary (ex officio member) and Vice President.
2. Be chaired by the Editor.
3. Assist the Editor in establishing editorial policy, publication format and procedures to assure timely publication of a high quality scientific journal, the *Journal of Aquatic Plant Management*.
4. Assume the responsibility for quality, quantity, and type of APMS publications.
5. A member of this Committee shall be assigned to serve on the Strategic Planning Committee.

Regional Chapters Committee

1. Be comprised of at least one representative from each of the recognized regional chapters and will include the Vice-President of the Society who shall serve as Chair.
2. Evaluate interest in new regional chapter formation in various geographic areas and report the findings to the Board.
3. Provide guidance and service to groups interested in forming new regional chapters.
4. Evaluate requests by regional chapters for recognized affiliation with the APMS according to the following criteria and make recommendations to the Board concerning such requests.
 - a. No other APMS-recognized regional chapter is currently in a position to serve the APMS mission in the geographic area covered by the proposed new chapter.
 - b. The mission statement, ideals, and goals of the proposed new chapter must be compatible with those of the APMS.
 - c. The proposed new chapter must establish governing bylaws.
 - d. The proposed new chapter must request official recognition via the APMS Regional Chapters Committee; and upon the committee's recommendation, the subject of the request must be approved by the APMS Board of Directors.
 - e. In cases where conflict of interest between a proposed new chapter and an existing chapter(s) arises, the APMS Board of Directors will adjudicate based upon petitions of the opposing chapters.
5. Encourage regional chapter participation in the affairs of the Society including coordinating chapter representatives to present status reports as part of the Program at the Annual Meeting.
6. Encourage communication and the exchange of information among regional chapters and the APMS via Newsletters, etc.

7. Provide updated directories of regional chapter Board of Directors to the President, Secretary, and the Editor of the JAPM; and to each regional chapter.
8. Arrange for a regional chapters breakfast and prepare an agenda and discussion items at each APMS Annual Meeting for the purpose of encouraging regional chapter contact and fellowship.
9. Encourage cooperation in activities which mutually benefit the APMS and the regional chapters such as: membership, education, outreach, scholarships, publicity, and legislative affairs.
10. Assist the Vice President in matters of regional chapter liaison and advancement of Society goals.
11. Consider Regional Chapter request for holding joint annual meetings. For joint meetings with Regional Chapters, APMS provides a payment to the host chapter of \$2,500. In addition, APMS will reimburse the host Chapter \$60 per full registration and \$30 for single day registrations for those that are members in good standing with the host Chapter. The host chapter should provide assistance at the registration desk for the duration of the conference and assist the Program Chair.

Scholastic Endowment Committee

1. Consist of not less than four (4) members, one of whom shall be the Chair of the Student Affairs Committee.
2. Be responsible for coordinating fund raising activities for the Society Scholastic Endowment Fund.
3. Assist the Vice President, as requested and when applicable in the solicitation of funding and the administration of the APMS Graduate Student Grant.

Strategic Planning Committee

1. Shall consist of no fewer than nine (9) members including the Immediate Past President, the Vice President, Treasurer; the following Committee Chairs: Bylaws and Resolutions, Education and Outreach and Student Affairs; a member of the Publications Committee; plus at least two (2) members-at-large selected for their long-standing support and/or historical perspective of the Society.
2. Purpose is to clarify the future focus of the Society by providing a framework for decision-making and recommending realignment of resources and establishment of priorities, as needed, in a practical, productive and responsive manner to meet current and future membership needs.
3. Should meet at least annually, preferably in conjunction with the mid-year Board meeting but also at the Annual Meeting, if deemed necessary.
4. Develop and update a SWOT (Strengths, Weaknesses, Opportunities and Threats) analysis of the Society.

5. Evaluate performance of APMS as it relates to the mission statement and operations within the context of its Bylaws.
6. Poll or survey the membership on a periodic basis to assess overall performance of APMS in its key areas including but not limited to member satisfaction.
7. Annually update a list of priority goals and their status with proposed timetables for completion for presentation at the July Board of Directors Meeting and submit approved changes in the document for inclusion in Chapter IV, Section B of this Operating Manual.

Student Affairs Committee

1. Be comprised of no less than four (4) voting members of the Society. The Chair shall also serve as a member of the Scholastic Endowment Committee, Membership Committee, and the Strategic Planning Committee.
2. Make recommendations to the Board as to means of enhancing and encouraging student participation in Society functions and activities.
3. Assist the Board in setting policy concerning criteria for determining student status as related to participation in Society activities.
4. Solicit student papers and posters from various educational institutions for presentation at the APMS Annual Meeting.
5. Conduct the student paper and posters contest at annual meetings of the Society to include the arrangements for judging, prizes, etc. and update the Student Awards section of the APMS Award/Honors Procedures and Criteria found in Chapter IV, Section A of this Operating Manual as may be necessary to reflect current information.
6. Prior to the Annual Meeting, provide information to the Awards Committee as to number of student participants giving poster and paper presentations such that appropriate certificates and other awards will be procured.
7. Coordinate student contestant housing provisions with the Meeting Planning Committee and the Meeting Planner.
8. Arrange with the Meeting Planning Committee and with the students attending the Annual Meeting a time and place to hold a discussion session for the purposes of:
 - a. Obtaining and documenting candid input from students on their opinion of APMS
 - b. Securing suggestions for improvements or changes to better accommodate and involve student participation.
 - c. Selecting a nominee for APMS Student Director to serve as a voting member at the APMS Board Meetings for the up-coming year (post-conference, mid-year and Annual Meeting). The name of the nominee shall be provided to the Nominating Committee as far in advance of the Annual Business Meeting as possible. Verification of current student status and APMS Membership is required for this position. Note – the APMS will cover travel and lodging expenses for the mid-year Board Meeting and any additional required lodging day(s) at the Annual Meeting.

Website Committee

1. Be comprised of no less than three (3) members.
2. Maintain the APMS Website and coordinate all structural modifications therein.
3. Approve all postings on the website.
4. Maintain a current copy of the Bylaws and the Operating Manual as provided by the respective responsible Committee(s).
5. Post all Annual Meeting announcements as soon as available prior to the meeting date and update appropriately as it approaches.
6. Post JAPM information and appropriate technical information with regular updates.
7. Update membership listings at least annually coordinating with the Secretary and the Treasurer to ensure accuracy.
8. Maintain a listing of Honorary Members and other Award Recipients (current and historical) within a designated roster. **Biographies are to be completed and provided by the Awards Committee upon recognition.**
9. Update Board-approved links at least annually.
10. Forward correspondence received on the site from the Webmaster to the Secretary in a timely manner for response.
11. Secure the services of a Webmaster, if needed, and provide budgetary information for such services to the Treasurer for Board approval.

CHAPTER III DUTIES OF SPECIAL REPRESENTATIVES

Special Representatives are responsible for: 1) submitting written reports for the Board of Directors meetings in accordance with the Secretary's requested schedule, and; 2) providing an oral report on Special Representative's activities at the Annual Business Meeting.

Aquatic Ecosystem Restoration Foundation (AERF) Representative

1. Be appointed by the President to serve renewable terms. The appointee must be a member of APMS and be a current member of the AERF Board of Directors.
2. Communicate with the APMS Vice President as a primary point of contact on matters of common benefit and concern.
3. Provide updated communication between the two organizations relating to shared areas of interest, funding, projects, and/or activities to avoid duplication of efforts or conflicts by ensuring clear understanding of their respective responsibilities on matters of mutual involvement.
4. Recommend members from the APMS for participation in AERF activities (e.g., scholarships, technical document reviews, etc.).

5. Promote good will between the APMS and AERF.

Council for Agricultural Science and Technology (CAST) Representative

1. Be appointed by the President to serve renewable 3-year terms.
2. Attend CAST meetings to participate in the governance and guidance of CAST.
3. Represent APMS by informing CAST of problems or issues of concern to the membership of APMS.
4. Recommend members from the APMS for participation in CAST activities (e.g., task force reports, congressional testimony, etc.).
5. Keep the APMS informed of CAST activities of interest to the membership of APMS.

Weed Science Society of America (WSSA) Representative

1. Be appointed by the President to serve renewable 3-year terms.
2. Serve on the WSSA Board of Directors and represent the interest of APMS at WSSA meetings and functions.
3. Keep the APMS informed of WSSA activities of interest to the membership of APMS.
4. Recommend members from the APMS for participation in WSSA activities as deemed appropriate.
5. Promote good will between the APMS and WSSA.
6. Encourage WSSA members to join the APMS as opportunity and appropriate occasions arise.
7. As designated by WSSA, serve as the Board Liaison on the WSSA Terminology Committee and the Standardized Plant Names Subcommittee.

North American Lake Management Society (NALMS) Representative

1. Be appointed by the President to serve renewable terms.
2. Represent the interest of APMS at NALMS meetings and functions.
3. Keep the APMS informed of NALMS activities of interest to the membership of APMS.
4. Recommend members from the APMS for participation in NALMS activities as deemed appropriate.
5. Promote good will between the APMS and NALMS.
6. Encourage NALMS members to join the APMS as opportunity and appropriate occasions arise.

Bass Anglers Sportsman Society (BASS) Representative

1. Be appointed by the President to serve renewable terms.
2. Represent the interest of APMS at BASS meetings and functions.
3. Keep the APMS informed of BASS activities of interest to the membership of APMS.
4. Recommend members from the APMS for participation in BASS activities as deemed appropriate.
5. Promote good will between the APMS and BASS.
6. Encourage BASS members to join the APMS as opportunity and appropriate occasions arise.

Responsible Industry for a Sound Environment (RISE) Representative

1. Be appointed by the President to serve renewable 3-year terms.
2. Attend RISE meetings as deemed appropriate to gather information pertinent to aquatic plant management.
3. Represent APMS by informing RISE of problems or issues of concern to the membership of APMS.
4. Recommend members from the APMS for participation in RISE activities (e.g., task force reports, congressional testimony, etc.).
5. Keep the APMS informed of RISE activities of interest to the membership of APMS.

CHAPTER IV GUIDELINES AND POLICIES

Note: This Chapter is reserved for insertion of documents and information pertaining to the duties and operation of the Society as may be generated by specific committees or Board actions and subject to periodic changes. Therefore, it is the responsibility of Committee Chairs and Officers to ensure these are properly updated as changes occur in policy or procedure. Sections are created in the order in which they are received, and an attempt has been made to cross-reference their existence in the appropriate procedures, duties and responsibilities above (Chapters I –III).

Section A - APMS Awards/Honors Procedures and Criteria*

Procedures and Criteria	Honorary Member	Max McCowen Friendship Award	President's Award
Nomination	Covered in Bylaws	Any Member	President
Approval Process	Covered in Bylaws	Unanimous Board of Directors vote	Majority Board of Directors vote
Award Frequency	Discretionary	Discretionary	Discretionary
Recipient Qualifications			
Membership	Current membership not required, but 10 year minimum prior membership required. Can be awarded posthumously. Annual membership dues and annual meeting registration fees are waived for Honorary Members. Travel reimbursement to attend the annual meeting should be considered.	Yes; must be a current and active member	Member or Non-member
General Criteria	Covered in Bylaws	A special recognition given to a member whose demeanor and actions display sincerity and friendship in the spirit of being an ambassador for the APMS at the Annual Meeting and all related functions, professional activities, etc.	An individual, designated by the current President, who has displayed "Many Years of Dedication and Contributions to the Society and the Field of Aquatic Plant Management"
Specific Criteria	Covered in Bylaws	Warmth and outgoing friendship, sincerity and genuine concern, gracious hospitality, positive attitude/smile. Maximum of one nominee per Annual Meeting (not mandatory). Cannot repeat.	1. Involvement and service to the profession and society over a minimum of 10 years. 2. Significant personal contribution in time and/or resources made to the science of APM and/or the operation of the APMS. 3. Expected on-going involvement and commitment.

Comment [TK1]: Terry – I don't know if this was voted on at the post-con board meeting or not. May have to remove. I know there was discussion related to it.

Award/Honor Inscription and Format	Plaque and privileges provided under the Bylaws. Citation to be determined by Awards Committee	Originally an inscribed vase with fresh flowers but since has changed to a plaque with Citation to be determined by Awards Committee; include date and place with citation.	Plaque entitled "Presidents Award in Appreciation to _____ for Many Years of Dedication and Contributions to the Society and the Field of Aquatic Plant Management", Date and Place
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Procedures and Criteria	T. Wayne Miller Distinguished Service Award	Student Presentation Awards	Best Poster Award (non-student)
Nomination	Any Member	Oral presentation and poster accepted by Program Committee	Submission accepted by Program Chair
Approval Process	Majority Board of Directors vote	Judging criteria set by Student Affairs Committee	Judging by assigned students
Award Frequency	Discretionary	Once per year at Annual Meeting	Once per year at Annual Meeting
Recipient Qualifications			
Membership	Member or Non-member	Not required but encouraged	Not required but encouraged
General Criteria	An individual recognized for "Service to the Society and the Profession"	Student must be enrolled in an accredited college or university and actively engaged in undergraduate or graduate studies related to some aspect of aquatic plant management	Poster may be hard copy or an e-poster; contest open to non-student conference delegates only. Poster must be relevant to aquatic plant management

Specific Criteria	<p>1. Successful completion of a relatively short-term project(s) taking considerable time, strategy and effort resulting in advancement of the science, educational outreach, and/or the APMS;</p> <p>2. Performance above and beyond the call of duty as an officer, chair, or special representative of the APMS; or</p> <p>3. Non-member achievement in the science of aquatic plant management and/or participation in the APMS leading to the advancement of its members, goals and objectives. Award under this criteria need not be limited to an individual, but may be used for agencies, corporations, institutions, or other organizations in recognition</p>	<p>Judges are selected by the Student Affairs Committee at the Annual Meeting (no less than 3) and provided with forms to judge content and delivery/presentation. Awards will be presented separately for both Oral and Poster Categories for 1st, 2nd and 3rd Places. An individual student can win a 1st Place award only once during their course of study (e.g., Masters or Doctoral program)</p>	<p>Student judges are selected by the Awards Committee and provided with rating criteria to determine a single "Best Poster" winner.</p>
Award/Honor Inscription and Format	<p>Plaque entitled: "T. Wayne Miller Distinguished Service Award in Recognition of _____ for . . ."</p> <p>Customized language . . . to be determined by President and provided to Awards Committee; Date and Place</p>	<p>Current Award Amounts (approved for 2006)</p> <p>1st Place = \$300</p> <p>2nd Place = \$200</p> <p>3rd Place = \$100</p> <p>Other prizes for participants may include relevant text books, certificates, etc., to be determined by Student Affairs Committee</p>	<p>Current Award (approved 2005) Best Poster = \$100 (check)</p>

Procedures and Criteria	Exhibitors Excellence Award	Outstanding JAPM Article Award
Nomination	Current Exhibitor at Annual Meeting	Any Member
Approval Process	Judges selected by Exhibits Committee	Majority Board of Director vote
Award Frequency	Once per year at Annual Meeting	Discretionary
Recipient Qualifications		
Membership	Not required but encouraged	Member or Non-member
General Criteria	Current paid exhibitor fees; meet space allocation limitations	An author and co-author(s) recognized for research published in the JAPM that is unique

		and will further science
Specific Criteria	Judges (typically students) are selected by the Exhibits Committee (no less than 3) and provided with forms to judge criteria including exhibit staffing, graphics, information presentation, key message delivery on products or services, etc.	<ol style="list-style-type: none"> 1. The award will be determined by the Editor and Associate Editors 2. The individual(s) will be chosen from journal articles from the previous year. 3. Any member may recommend an article to any Editor for nomination.
Award/Honor Inscription and Format	Plaque entitled "Exhibitors Excellence Award" with APMS logo; Date and Place	Plaque entitled: Outstanding Journal of Aquatic Plant Management Award in Recognition of ____ for...Customized language..... (Citation to be determined by Awards Committee); Date and Place

Procedures and Criteria	Outstanding Graduate Student Award	Outstanding Research and/or Technical Contributor Award	Outstanding International Contribution Award
Nomination	Any Member	Any Member	Any Member
Approval Process	Majority Board of Directors vote	Majority Board of Directors vote	Majority Board of Directors vote
Award Frequency	Discretionary	Discretionary	Discretionary
Recipient Qualifications			
Membership	Not required but encouraged	Member or Non-member	Member or Non-member
General Criteria	A graduate student recognized for outstanding achievement during graduate studies in the field of aquatic plant management.	An individual recognized for a research project or technical contribution related to aquatic plant management that constitutes a significant advancement to the field.	An individual recognized for research and/or outreach activities that are international in nature.
Specific Criteria	<p>1. Student must be enrolled in an accredited college or university and actively engaged in graduate studies related to some aspect of aquatic plant management.</p> <p>2. An individual student can win award more than once, but only if being recognized for significantly different projects or contributions.</p>	<p>1. Successful completion of research project or technical contribution with a substantial impact on the field of aquatic plant management.</p> <p>2. Award need not be limited to an individual, but may be used for agencies, corporations, institutions or other organizations.</p>	<p>1. Completion of a research project or outreach mission involving multiple countries, international cooperation, or taking place in an underserved location.</p> <p>2. Award need not be limited to an individual, but may be used for agencies, corporations, institutions or other organizations.</p>
Award/Honor Inscription and Format	Plaque entitled: Outstanding Graduate Student Award in Recognition of _____ for . . . Customized language . . . (Citation to be determined by Awards Committee); Date and Place	Plaque entitled: Outstanding (<u>Research OR Technical</u>) Contributor Award in Recognition of _____ for . . . Customized language . . . (Citation to be determined by Awards Committee); Date and Place	Plaque entitled: Outstanding International Contributor Award in recognition of _____ for . . Customized language . . . (Citation to be determined by Awards Committee); Date and Place

Section B – Strategic Plan as Amended

The Aquatic Plant Management Society, Inc.

STRATEGIC PLAN

DRAFTED: JUNE, 2012
FINAL: FEBRUARY 2013

APMS Committee for Strategic Planning

**The Aquatic Plant Management Society, Inc.
P.O. Box 821265
Vicksburg, MS 39182-2165**

AQUATIC PLANT MANAGEMENT SOCIETY

STRATEGIC PLAN - 2012

This document contains the results of the strategic planning process conducted by the Aquatic Plant Management Society (APMS) on January 27, 2012. Strategic Planning is a disciplined and concerted effort to produce decisions and actions that guide and shape what the Aquatic Plant Management Society (APMS) is, what it does, and why it does it. Strategic Planning is also a way of looking to the future and deciding what the APMS will do. As a result of strategic planning, the APMS should have a clearer idea of where it is going, how it will get there, as well as opportunities and challenges that it faces. This Strategic Plan should be viewed as a “living document” that changes and evolves with time and circumstances. The Strategic Planning process should be revisited periodically (about every three years). Strategic Goals were identified during this planning process and are appended to this report. Progress toward accomplishing the Strategic Goals established through the Strategic Planning Process and the Strategic Plan should be monitored by the APMS Board of Directors (BOD) on a regular basis.

The Strategic Planning Process and Activities

Members of the APMS (predominantly the APMS Board of Directors) met prior to the winter Board Meeting in Salt Lake City, Utah on January 27, 2012. Attending the Strategic Planning session were Tyler Koschnick, Linda Nelson, Terry Goldsby, Sherry Whitaker, Michael Netherland, Alan “Bo” Burns, Rob Richardson, Justin Nawrocki, Vernon Vandiver, Larry McCord, Don Doggett, Craig Aguillard, Jeff Schardt, John Gardner, Cody Gray, David Isaacs, John Madsen, Tommy Bowen, and John Rodgers.

Previously, strategic planning had been conducted in 2005-2006 and 2009. To organize the 2012 strategic planning exercise, the following agenda was used: 1) Introductions and Background, 2) Review Mission Statement, Identify APMS Core Values, and Develop Vision Statement, 3) Review Strengths, Weaknesses, Opportunities and Threats (SWOT Analysis), 4) Development of Strategic Goals, and 5) Reporting and Evaluation. With the current prevailing financial recession and associated uncertainties as well as recent judicial decisions and the advent of NPDES permitting, the group initially discussed unique circumstances permeating decision making in professions served by APMS and the need for caution and thoughtful responses to ongoing changes. During the discussion, several participants emphasized the need to preserve the APMS core values during these challenging and uncertain financial times. Many of the Strategic Goals that emerged from this planning centered on maintaining core values and ensuring a sound fiscal future for the Society. Other goals related to opportunities were identified that could and should be achieved and they are included in this report. It is important that this Strategic Plan captures the depth and breadth of discussion that ensued as well as the essentially consensus decisions, objectives and goals that emerged.

Discussion of APMS Mission, Core Values, and Vision

As the APMS moves forward into the future, clear articulation of its mission, core values, and vision will assist communication with stakeholders as well as other interested parties that are engaged or encountered. In the 2012 strategic planning session, the APMS mission, core values, and vision were discussed and the results of that discussion are presented below. After further discussion and deliberation, the APMS Board of Directors (BOD) formally adopted the mission, core values, and vision.

PREVIOUS APMS MISSION - Promote environmental stewardship through science and technology, education and outreach related to integrated vegetation management in aquatic and riparian systems.

REVISED APMS MISSION - Promote environmental stewardship through scientific innovation and development of technology related to integrated plant management in aquatic and riparian systems.

CORE VALUES

- Provide a platform for the exchange of science and technology
- Promote sustainable aquatic and riparian plant management through science
- Support and encourage sustained student involvement and education
- A membership that represents the entire spectrum of aquatic plant management, including scientists, regulators, operators, etc.

THE APMS VISION: Be the leading professional organization with a focus on vegetation management in aquatic and riparian systems.

APMS Strategic Plan Objectives and Action Items – 2012-2015

A high priority prevalent during this strategic planning exercise was ensuring the financial sustainability of the APMS. Approaches that were suggested for accomplishing the financial sustainability of the APMS included conservative and judicious management of financial resources and diversifying our revenue stream. Supporting the core values of education and outreach were also identified as important goals for APMS. Membership and member services were also a high priority. A special effort to recruit and retain dedicated students was recognized as a priority. While recognizing their unique and special character, enhanced interactions and

communications with Regional Chapters were also recommended. Communication is an important activity of the APMS and the annual meeting is a crucial contributor toward successful communication. Opportunities were identified to follow up on current activities and promote effective new approaches (e.g. web site enhancements). Specific goals and objectives are presented below.

- **Develop a Business and Marketing Plan (include sponsorship relations)** – this strategic objective is focused on management of resources, potentially budgeting based on APMS Committee goals and budget proposals. The plan would contain revenue sources (current and developable as well as any anticipated declines) and projects (ongoing as well as potential) as well as requisite budgets. Communication of this information to the membership (i.e. sources of revenue) is crucial. These unprecedented financial times require special vigilance and communication of the value of APMS membership and participation. Ensure financial sustainability of APMS by containing costs and monitoring revenue streams.
- **Sustain or Grow Membership – bring in regulators, homeowner associations, and resource managers to the annual meeting (grow numbers through Regional Chapters)** – this strategic goal is aimed at maintaining membership in APMS and potentially growing in numbers and influence. Since APMS is a “volunteer” organization, the membership regulates what APMS can do and achieve.
- **Outreach to Regional Chapters – foster improved interactions; investigate joint-meeting opportunities** – Most Regional Chapters are vibrant and active. This is likely due to their emphasis on regional issues and activities. In conjunction with regional Chapters, APMS has an opportunity to emphasize national, international and regional

issues and solutions, but this need some thought, planning and execution. Enhance interactions and communications with Regional Chapters while recognizing and preserving their unique regional character is a goal. Regional Chapters have much to offer to APMS in terms of science and management approaches. Conversely, APMS can offer Regional Chapters a look at the “bigger picture” and ideas from outside the “neighborhood.”

- **Advocate support for APMS Goals – strategic research and white paper; Science Policy Director** – Carefully researched information on invasive species documenting environmental and social costs (human health, etc.) supporting the APMS mission needs to be captured in a “white paper”. This document could be used to communicate with the public, politicians, decision makers and stakeholders. Encourage and support scientific research and assist in promoting the control and management of aquatic plants through scientifically sound procedures. Strategic allocation of scholarships and other promotional scientific resources could be advantageous at this time.
- **Outreach - Engage APMS Committees (enhance communication through website)** – A fundamental presumption is that APMS has the Committees to accomplish the “work” of the Society with occasional assistance from ad hoc committees. The goals and activities of each APMS Committee should be clearly articulated and communicated through the website. This could serve as a way to engage more of the membership and interested parties in accomplishing the goals of the Committees.

Recognition of potential impacts of the current financial situation (ongoing recession) on the Society and professions served by APMS, permeated much of the discussion. Thus the “heart” of the strategic planning that ensued at his meeting centered on forestalling potential adverse

effects of economic downturn and seizing opportunities to make progress during these exceptional times. Other discussion involved the journal and electronic opportunities as well as the web site. These are crucial communication tools and should be carefully managed.

At the end of several productive and challenging hours, we arrived at the strategic plan and goals presented here. Important in this strategic planning was to discern what needed to be done, devise an implementation strategy, and to develop a mechanism to check on progress. We agreed to draft this strategic plan for review, review/modify the strategic plan as needed, approve (adopt) the revised plan, and monitor progress periodically.

Ancillary Information

Both the discussion and debate at the Strategic Planning Meeting were wide ranging and intense. It was obvious that some residual items from previous Strategic Planning would need monitoring and nurturing if the future envisioned for APMS was to be achieved. These items were deemed Ancillary Information and are presented below as the Maintenance List:

Maintenance List

- 1) Annual meeting – relevance to site; Meeting Planning Committee
- 2) Journal production – Editor and Publications Committee
- 3) Student support/recruitment – Student Affairs Committee

The participants in Strategic Planning expended considerable effort and energy to develop this plan for APMS. Notes from the meeting have been redacted from the BOD approved Strategic Plan.

APMS STRATEGIC PLAN (2012-2015)

STRATEGIC GOALS	RESPONSIBLE ENTITY OR COMMITTEES	MONITORING PROGRESS	NOTES
1. DEVELOP A BUSINESS AND MARKETING PLAN	APMS BOD FINANCE COMMITTEE SCHOLASTIC ENDOWMENT COMMITTEE		
2. SUSTAIN OR GROW MEMBERSHIP	APMS BOD MEMBERSHIP COMMITTEE		
3. ADVOCATE SUPPORT FOR APMS GOALS	APMS BOD MEETING PLANNING		

	COMMITTEE PROGRAM COMMITTEE FINANCE COMMITTEE		
4. OUTREACH - ENGAGE APMS COMMITTEES	REGIONAL CHAPTERS COMMITTEE APMS BOD		
5. CONTINUE EMPHASIS ON: ANNUAL MEETING – RELEVANCE TO SITE; JOURNAL PRODUCTION; STUDENT - SUPPORT/RECRUITMENT	MEETING PLANNING COMMITTEE; EDITOR AND PUBLICATIONS COMMITTEE; STUDENT AFFAIRS COMMITTEE		

Section C – Annual Meeting Planning Timetable

Annual Meeting Management Timetable

24 Months Ahead (Board of Directors Meeting)

Select region and dates
Establish meeting objectives

Board of Directors
Program

18-24 Months Ahead

Estimate total attendance
Estimate sleeping room needs
Develop preliminary program (daily function schedule)
Prepare preliminary budget
Site inspection and selection

Meeting Planning
Meeting Planning
Program
Meeting Planning
Meeting Planning

18 Months Ahead (Board of Directors Meeting)

Present meeting sites and make recommendation to Board of Directors

Meeting Planning

Present budget to Board of Directors	Meeting Planning
12-18 Months Ahead	
Negotiate terms of meeting, review and sign hotel contract, ensure it meets needs	Meeting Planning
Identify and contact potential facilities for social functions	Meeting Planning
Contact transportation services	Meeting Planning
Refine budget	Meeting Planning
12 Months Ahead (Board of Directors Meeting)	
Provide signed hotel contract to Board of Directors	Meeting Planning
Provide social function plans to Board of Directors	Meeting Planning
Provide refined budget to Board of Directors	Meeting Planning
Establish registration fee	Board of Directors
9-12 Months Ahead	
Begin search for keynote speaker and other guest speakers	Program
Book social functions	Meeting Planning
Book transportation	Meeting Planning
Solicit meeting sponsors	Meeting Planning
	Scholastic
Solicit prizes for fund raising activities	Endowment
Solicit exhibitors	Exhibits
Solicit student papers	Student Affairs
Provide Secretary with information of local area	Meeting Planning
Provide Secretary with a "call for papers" form	Program
Mail meeting announcement, call for papers, and pre-registration in newsletter	Secretary
6-9 Months Ahead	
Review program with key people involved in meeting planning	Meeting Planning
Review program with hotel	Meeting Planning
Revise specifications with hotel as necessary	Meeting Planning
Revise specifications for social functions as necessary	Meeting Planning
Mail final call for papers, meeting information, and pre-registration in newsletter	Secretary
6 Months Ahead (Board of Directors Meeting)	
Provide status of meeting arrangement	Meeting Planning
3-6 Months Ahead	
Have signs prepared	Meeting Planning
Mail sponsor confirmation letter and invoice	Meeting Planning
Confirm social functions	Meeting Planning
Confirm transportation	Meeting Planning
Prepare preliminary agenda	Program
Select session chairpersons, projector and lighting operators	Program
2-3 Months Ahead	
Mail meeting information and program/agenda in newsletter	Secretary
6 Weeks Ahead	

Select final food and beverage requirements	Meeting Planning
Provide hotel with meeting specifications	Meeting Planning
Final agenda	Program
Provide Meeting Planning Committee Chair with student rooming list	Student Affairs
Name tags printed	Secretary
4 Weeks Ahead	
Provide hotel with VIP and student (comp rooms) rooming lists	Meeting Planning
Review program with key people involved in meeting planning	Meeting Planning
Review hotel meeting/banquet event order and advise of any changes	Meeting Planning
Have registration packets prepared	Meeting Planning
Obtain all material for shipping to hotel	Meeting Planning
2 Weeks Ahead	
Ship material to hotel	Meeting Planning
Review program with hotel	Meeting Planning
Day Prior to Meeting	
Walk through the program at hotel	Meeting Planning
Review all setups, including registration area	Meeting Planning
Review VIP rooming list with front desk	Meeting Planning
Have pre-conference meeting with appropriate hotel personnel	Meeting Planning
Each Day of the Meeting	
Check accuracy of hotel monitor/directory	Meeting Planning
Check room setups	Meeting Planning
Check A/V equipment	Meeting Planning
Check lighting	Meeting Planning
Check cooling/heating system	Meeting Planning
Check food and beverage setups	Meeting Planning
Review and sign event tickets	Meeting Planning
Review next day's program with hotel and make necessary changes	Meeting Planning
After the Meeting	
Review final bill with hotel and advise of any needed changes	Meeting Planning
Clear rooms of materials	Meeting Planning
Package and ship materials home	Meeting Planning
Send thank you letters to sponsors	Meeting Planning
Provide Meeting Planning Committee Chair with actual revenue figures	Treasurer
Revise budget with actual expenses and revenue	Meeting Planning
Get final sleeping room pickup from hotel, provide to Meeting Planning Committee Chair	Meeting Planning
Provide Meeting Planning Committee Chair with final attendance numbers	Secretary

Section D – Committee Chair/Member Requirements

Committee	Number of Members	Designated Chair	Designated Committee Members	Comments
Awards	Comprised of at least 3 APMS members	President appointee		
Bylaws and Resolutions	Comprised of at least 5 APMS members	President appointee		
Education and Outreach	Comprised of at least 5 members	President appointee	Chair, Student Affairs	
Exhibits	Not specified	President appointee		
Finance	Comprised of at least 4 APMS members	President appointee	Treasurer	
Legislative	Comprised of at least 5 APMS members	President appointee		
Meeting Planning	Comprised of at least 3 APMS members	President appointee	Should include one member familiar with region of selected meeting site	Coordinates activities with the Meeting Planner and the Program Committee Chair
Membership	Comprised of at least 5 APMS members	President appointee	Chair, Student Affairs; should include members of Regional APMS Chapters	Secretary and Vice President serve as ex officio members
Nominating	Comprised of at least 5 APMS members	Immediate Past President		Committee members should not have served for more than 2 consecutive years or have had a break in membership on the committee of at least 2 years
Past Presidents Advisory	Comprised of all Past Presidents	Immediate Past President		
Program	Comprised of the members of the Board of Directors	President-Elect		Coordinates activities with the Meeting Planning Committee and the Meeting Planner
Publications	Comprised of at least 6 members	Editor	Associate Editor(s), Vice President	Secretary serves as ex-officio
Regional Chapters	Comprised of at least one representative from each recognized APMS Chapter	Vice President		
Scholastic Endowment	Comprised of at least 4 members	President appointee	Chair, Student Affairs	
Strategic Planning	Comprised of at least 9 members + 2 members-at-large	President appointee	Immediate Past President, President, Vice President, Treasurer, a member of the Publications Committee, and the following Committee Chairs: Bylaws and Resolutions; Education and Outreach; and, Student Affairs	Members-at-large should be selected for their long-standing support and/or historical perspective of the Society
Student Affairs	Comprised of at least 4 APMS members	President appointee		Coordinates activities with the Meeting Planning Committee, Meeting Planner, Program and Awards Committees
Website	Comprised of at least 3 members	President appointee		

Section E – APMS Graduate Student Research Grant Procedures and Criteria

The Aquatic Plant Management Society (APMS) developed the Graduate Student Research Grant for the purpose of providing funding for a full-time faculty member and/or 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. Solicitation for this award occurs every 2 years. The Vice President administers the award process in accordance with duties outlined in the Operating Manual (Item 6 under duties for Vice President). Specific procedures, criteria, and a suggested timeline for initiating this Grant are as follows:

Amount of Grant: \$40,000; to be distributed over two (2) consecutive years (\$20,000 per year). It is the policy of the APMS not to pay overhead or indirect costs. Grant amount approved by the Board of Directors in 2009.

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.

Guidelines for Proposals: Proposals should contain a concise statement of the project, including its purpose and justification, as well as sections that discuss study objectives, methodology, schedule, budget, and planned publication of results. The resumé of the faculty applicant and graduate student (if known) should not exceed two (2) pages each. Proposals should not exceed ten (10) pages, and must be signed by the applicant (principal investigator) and an appropriate university official. Include copies of your five (5) most recent peer reviewed publications. Proposals should be submitted electronically (as a pdf file) to the APMS Vice President by the advertised deadline date. Late applications are not accepted.

Award Notification: Notification of award will be provided to the faculty member in time to make arrangements to attend the APMS Annual Meeting, typically scheduled for mid July. Formal announcement of the grant award recipient will be made at the Annual Meeting, with initiation of the stipend scheduled for the spring semester following award notification/announcement. Payments will be made to the recipient institution before January 31st of each year.

Requirements for Grant Award Recipients: Semi-annual progress reports must be submitted to the APMS prior to June 30th and December 31st for each year the grant is received. The faculty member and student must participate in at least one annual APMS Board of Directors meeting and attend the annual APMS 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 the APMS.

Suggested Timeline for Initiating Award Process:

October through March – Advertise the Grant in Newsletters, website, and other outlets
August through April – Solicit funding support from Regional Chapters and other sources
April – Grant applications/proposals due to Vice President
May – Applications reviewed by ad-hoc committee selected by the Vice President
June – Award recipient announced to the APMS Board of Directors (Vice President motions the Board to accept the recommendation by the ad hoc review committee); Award recipient notified upon Board acceptance of review committee recommendation
July – Award presented at Annual Meeting
January – Treasurer submits first year payment (by January 31) to recipient institution

Section F – Travel Reimbursement

All Officers and Directors are eligible for travel support to both the annual meeting and mid-year board meeting if they do not have access to other funds to support travel. However, all Board members are encouraged to utilize any resources they have to pay for travel first. Officers and Directors need only apply to the current President and Treasurer for their eligible travel, and with their approval can incur travel costs for reimbursements. Included in this application is a statement of need with an indication of a lack of other travel resources. Reimbursement will follow standard procedures; including invoicing the Treasurer and including appropriate receipts. The President and Treasurer will both approve these expenses for reimbursement. Travel support is not automatically available for committee chairs and special representatives to the Board for board meetings, except for the Science Policy Director. The President, however, may request the attendance of specific individuals to the board meetings, and authorize their travel expenses as needed through normal channels.

Section G – Financial Planning Policy (reserved)



December 4, 2013

Ms. Sherry Whitaker
Treasurer
APMS
PO Box 821265
Vicksburg, MS 39182-1265

Dear Sherry:

AERF has completed another successful year. We have supported education and outreach efforts, funded graduate student stipends, aided in the participation of students and regulatory officials at Aquatic Plant Management meetings around the country, facilitated aquatic-related research, continued the support of the work at the Army Corps of Engineers Engineer Research and Development Center in Vicksburg, Mississippi, and more. Your individual participation and financial support has helped the Foundation achieve the stature it enjoys in the aquatics community at large. AERF has accomplished much since its inception, but there is much more to be done.

I have enclosed an invoice for your 2014 donation. The different donor levels in the Foundation create a variety of support options for your consideration. I sincerely hope you will continue your financial support. Perhaps you would consider a higher donor level for 2014. All support is appreciated. The writing and printing of a new edition of the popular "Aquatic Plant Management Best Management Practices Manual (BMP)" continues apace with the initial draft expected in April of 2014. Funding for this project will come entirely from donations so that the other important work of the Foundation may continue unimpeded. The Foundation would, therefore, welcome a donation of any additional amount you may choose to help with printing expenses. All such donations will be dedicated to the BMP.

I look forward to working with you in the coming year and sharing the sense of accomplishment as we develop and implement new and exciting approaches toward the realization of our goals in the aquatic plant management arena. Please feel free to call me if you have any questions.

Sincerely,

Carlton R. Layne
Executive Director

Enclosure

Carlton R. Layne, Executive Director, AERF • 3272 Sherman Ridge Drive, SW • Marietta, GA 30064
Phone: 678.773.1364 Fax: 770.499.0158 • clayne@aquatics.org • www.aquatics.org

INVOICE FOR 2014 MEMBERSHIP RENEWAL

AQUATIC ECOSYSTEM RESTORATION FOUNDATION

Please review the information below and make any necessary corrections or additions. Return this form with your membership renewal in the enclosed envelope.

In 2013 your membership level was: **Affiliate**. Your membership contribution was: **\$1,000**.

Name: **Ms. Sherry Whitaker**
Email: **Sherry.L.Whitaker@erdc.dren.mil**
Company: **APMS**
Address: **PO Box 821265**
City: **Vicksburg**
State: **MS**
Zip: **39182-1265**
Phone: **601-634-5502**
Fax: **601-634-2398**
Website: **www.apms.org**

☐ Check here if you are a commercial applicator or management company.

Select or change your membership level here:

<input type="checkbox"/>	Gold	Dues: \$15,000
<input type="checkbox"/>	Silver	Dues: \$5,000
<input type="checkbox"/>	Bronze	Dues: \$2,500
<input type="checkbox"/>	Affiliate	Dues: \$1,000

You will receive a dress shirt with an AERF logo on it. Please make your selections below:

Select Color here: ☐ Yellow ☐ Blue ☐ White
Select Style here: ☐ Long Sleeved ☐ Short Sleeved
Select Size here: ☐ Large ☐ Extra Large ☐ Medium ☐ Other _____

Submitted by: _____ Title: _____

Please return this form with your payment in the enclosed envelope or mail to:

Aquatic Ecosystem Restoration Foundation
1860 Bagwell Street
Flint, MI 48503

For more information contact Carlton R. Layne, Executive Director, AERF, 3272 Sherman Ridge Drive SW, Marietta, Georgia 30064, Telephone: 678-773-1364, Fax: 770-499-0158, Email: clayne@aquatics.org.

AERF, 1860 Bagwell Street, Flint, MI 48503-4406. AERF's Federal I.D. Number is 38-3304154.