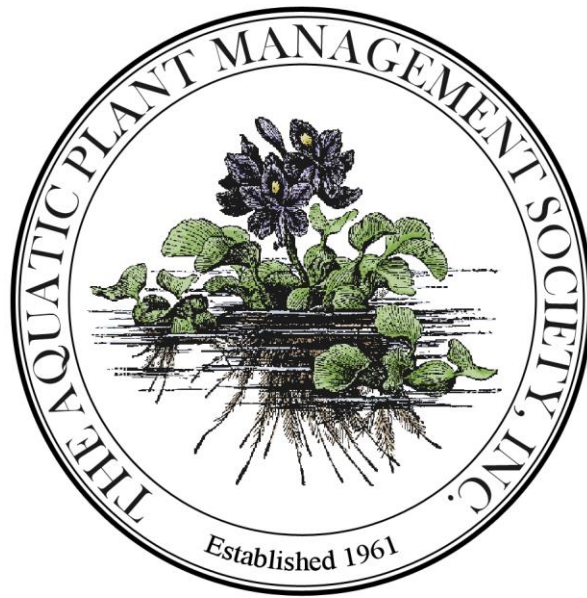


The Aquatic Plant Management Society



**Board Meeting
DoubleTree San Diego Mission Valley
San Diego, California
July 14-17, 2019
Courtyard II**

AGENDA

**Aquatic Plant Management Society, Inc.
Board of Directors Meeting
DoubleTree San Diego Mission Valley
San Diego, California
July 14, 2019
Courtyard II**

Breakfast provided ~7:30 am

8:00 am	Call to Order
10:00 am	Morning Break
12:00 pm	Lunch - Board Room
12:45 pm	Reconvene Board Meeting
2:30 pm	Afternoon Break
4:00 pm	Adjourn

8:00 am CALL TO ORDER - President Craig Aguillard

ROLL CALL - Secretary Jeff Schardt

Seating of Proxies

Recognition of Visitors

MINUTES - Approval of Minutes from the January 29, 2019 Midyear Board of Directors Meeting held at the Hyatt Regency Riverwalk, San Antonio, Texas.

REPORT OF THE PRESIDENT - Craig Aguillard

REPORT OF THE TREASURER - Jeremy Slade

REPORT OF THE SECRETARY - Jeff Schardt

REPORT OF THE EDITOR - Jay Ferrell

Approval of Officer Reports

COMMITTEE REPORTS

Awards - Jay Ferrell

Bylaws and Resolutions - Vernon Vandiver

Education and Outreach - Brett Hartis

Exhibits - Dean Jones

Finance - Andy Fuhrman

Legislative - Rob Richardson

Meeting Planning - Bill Torres

Membership - Mark Heilman
Nominating - John Rodgers
Past President's Advisory - John Rodgers
Program - Mark Heilman
Proposal Review - John Rodgers
Publications - Jay Ferrell
Regional Chapters - Ryan Wersal
Scholastic Endowment - Tom Warmuth
Strategic Planning - Mark Heilman
Student Affairs - Chris Mudge
Web Site - Ken Manuel

SPECIAL REPRESENTATIVE REPORTS

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

Approval of Committee and Special Representative Reports

OLD BUSINESS

1. Status Report on 2018 GSRG - John Rodgers
2. Discuss revised Operating Manual - APMS web site - Members Only / Documents
3. Discussion / decision on future publication of Journal of Aquatic Plant Management – Ferrell
4. Discuss format / identify personnel to create / distribute APMS social media content - Olson

NEW BUSINESS

1. Review Cost/Benefit to APMS associated with annual memberships with CAST, AERF and RISE, and annual stipend to Science Policy Advisor
2. Discussion on Proposal for one-time fee to revise WSSA Abstract Submission System
3. Decision on hotel for the 2022 Annual Meeting
4. Discussion on Bylaws amendment to Article XIII: 12. Proposal Review Committee.

ADJOURN - President Craig Aguillard

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THE AQUATIC PLANT MANAGEMENT SOCIETY, INCORPORATED

Minutes of the Board of Directors Meeting

January 29, 2019

Hyatt Regency - Riverwalk

San Antonio, Texas

The Board of Directors of the Aquatic Plant Management Society, Inc., met on Tuesday, January 29, 2019 at the Hyatt Regency - Riverwalk Hotel in San Antonio, Texas. President Craig Aguillard called the meeting to order at 8:30 a.m., CDT.

Officers and Directors present at roll call were:

Craig Aguillard, President
Mark Heilman, President Elect
John Rodgers, Immediate Past President
Jeremy Slade, Treasurer
Jeffrey Schardt, Secretary
Scott Nissen, Director
Todd Olson, Director
Deborah Hofstra, Director*
Amy Kay, Director
Marc Bellaud, Director
Amy Ferriter, Director
Mirella Ortiz, Student Director

There were no Proxies.

Others in attendance during all or portions of the meeting:

Brett Hartis, Education and Outreach Committee Chair
Ken Manuel, Web Site Committee Chair
Chris Mudge, Student Affairs Committee Chair*
Rob Richardson, Legislative Committee Chair, WSSA Representative*
Tom Warmuth, Scholastic Endowment Committee Chair*
Lee Van Wychen, WSSA Science Policy Director*

*Attended via teleconference

MINUTES

After Roll Call, President Aguillard asked for approval of the three sets of Minutes from the July 2018 pre- and post-conference Board Meetings and the Annual Business Meeting held in Buffalo, New York.

John Rodgers motioned the Board to approve the Minutes as submitted. Todd Olson seconded the motion. The motion passed without dissenting vote.

PRESIDENT'S REPORT

President Aguiard advised the Board that he attended and presented APMS updates at several Chapter Annual Meetings, including FAPMS, MidSouth, and TAPMS.

TREASURER'S REPORT

Treasurer Jeremy Slade provided an update of APMS General and Scholastic Accounts as of December 31, 2018:

General Accounts

Checking (general operating)	\$31,342.66	(01/07/19)
Investment (emergency)	\$238,600.27	(12/31/18)

Total General Accounts	\$269,942.93
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Scholastic Accounts

Checking	\$50,873.08	(01/07/19)
GSRG	\$133,212.41	(12/31/18)

Total Scholastic Accounts	\$184,085.49
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Total General and Scholastic Accounts	\$454,028.42
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Slade showed a net reduction in the APMS Treasury of \$56,651.93 for 2018 and projects a net reduction for 2019 of \$40,952.94. These reductions are primarily a result of an additional Graduate Student Research Grant (GSRG) paid exclusively by APMS in addition to Journal Expense, annual membership dues (AERF, CAST, RISE, WSSA), stipends to the Secretary and Editor, and various fees including credit card, web maintenance, tax audit. Schardt reminded that the biggest reduction is related to an additional GSRG paid exclusively (\$40,000) by APMS in response to sponsor concerns that APMS account balances were too large.

Slade mentioned that Mike Netherland had discussed forwarding a balance of \$30,000 in his AERF research account to the APMS GSRG Account. Slade will coordinate this with AERF. There was a request that in lieu of flowers in memory of Tommy Bowen's passing in October 2018, that people consider donating to the Muscular Dystrophy Association.

Mark Heilman motioned the Board to donate \$500 to the Muscular Dystrophy Association in memory of Tommy Bowen. Jay Ferrell seconded the motion. The motion passed without dissenting vote.

Jeremy Slade motioned the Board to fund Sherry Whitaker's travel and lodging expenses to operate the Registration Desk at the 2019 Annual Meeting in San Diego. Mark Heilman seconded the motion. The motion passed without dissenting vote.

Slade pointed out that since the 2019 Annual Meeting is a joint meeting with WAPMS, proceeds will be shared between APMS and WAPMS. In 2013, the Board voted that for joint meetings, APMS will pay the host chapter a flat rate of \$2,500 and reimburse the host chapter \$60 per each full registration and \$30 for any single day registration of attendees that are members in good standing of the host chapter.

SECRETARY'S REPORT

Schardt advised that the Minutes dating back to 2001 are posted on the web site. Schardt purchased a scanner to digitize slides from APMS Annual Meetings from the 1980s-1990s provided by Bill Haller and will post in the Annual Meeting Archives on the web site. He also has Board Meeting Minutes provided by Bill Haller dating back to the early 1980s through 2000 that could be scanned and placed in APMS Archives.

Schardt advised that it has been difficult keeping annual membership dues up to date. Schardt sends email notices to members to pay current year dues on January 1 and then again in February and March. Schardt also reminds members via email who have not paid dues from the previous 3-4 years. 40 Members from 2017 did not renew in 2017. 62 Members from 2017 did not renew in 2018.

Schardt provided a breakdown of hours spent on Secretary duties (424.5) for 2018.

EDITOR'S REPORT

Editor Ferrell reported that the Journal remains on time. Submissions are consistent, in the low 30s per year with an acceptance rate of about 67%. Most papers are submitted by repeat authors who understand the types of papers and format that APMS is looking for. This increases the acceptance and lowers the amount of time to publish an article.

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

If JAPM combined with ISM, WSSA would be the editing body, but an APMS representative would be required to edit content in an aquatic subsection of the journal. APMS members could view, read, and share the articles, but to download or copy articles, APMS members would also need to become a WSSA member as well. The APMS Past Presidents were hesitant about such a merger, pointing out that APMS was formed in part because aquatic articles could not get published in weed science journals. The audience was too small.

Another consideration was to move the JAPM online only. The JAPM costs about \$17,000 to publish each year and generates about \$15,000, or a net loss of about \$2,000 per year. The majority

of the JAPM cost is in editing and typesetting, so going online would result in a minor cost savings. Putting JAPM online would allow for more issues per year – publish articles as they are received and edited vs waiting six months to publish in the printed journal. This would still not address the impact factor or search engines picking up the articles.

Ferrell suggested that if the Board wants to retain complete editorship of JAPM and since there is little cost advantage moving online, then keep the JAPM publication as is for now.

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

COMMITTEE AND SPECIAL REPRESENTATIVE REPORTS

Awards: Chair Jay Ferrell advised that there have been few nominations for 2019 awards as yet. Ken Manuel and Eric Barkemeyer have been suggested as Honorary Members to recognize their long-term service to APMS.

Bylaws and Resolutions Committee: No Report. There are no Bylaws issues to present to the Membership this year.

Education and Outreach Committee: Chair Brett Hartis discussed updating the APMS Membership Brochure. Hartis has left TVA and now works for Duke Energy and will turn organization of TVA Plant Camp over to a TVA representative. Hartis also discussed sending teachers from North Carolina to 2019 TVA Plant Camp and perhaps involvement with Duke Energy. He said the application process is now competitive and teachers from throughout the Valley are encouraged to apply. Schardt discussed that the Florida Plant Camp Coordinator has moved on and will be replaced within a few days. Teachers are selected and planning is underway for Florida Plant Camp 2019.

Exhibits Committee: Todd Olson provided an assessment from the 2018 Annual Meeting. There were 24 Exhibitors; 22 from industry and two non-profits. Twenty Sponsors contributed \$55,283 to the 2018 meeting; more sponsors than 2017 but slightly less funding. The Committee expects Exhibitor and Sponsorship for 2019 to be similar to 2018.

Finance Committee: No report. Issues were covered in the Treasurers Report. Slade advised that APMS accounts were performing well until the last quarter. The Scholastic Account had a net loss of about \$4,000 for the year, and the General Account had a net loss of about \$9,000 for 2018.

Legislative Committee: Most is covered in the WSSA Report. Chair Rob Richardson advised that there was not a fix for the NPDES aquatic plant management issue. The longer this goes unresolved, the less likely there will be a fix. Dicamba was reregistered for two more years. Health Canada released a statement on glyphosate after a thorough review: “No pesticide regulatory authority in the world currently considers glyphosate to be a cancer risk to humans at the levels at which humans are currently exposed.” Diquat is near complete with reregistration. A new rule related to Waters of The U.S. (WOTUS) is near complete and will likely look like the traditional WOTUS definition.

Meeting Planning Committee: Chair Bill Torres updated logistics information for the 2019 Annual Meeting. Torres investigated a cruise for dinner at the Annual Meeting – cost was ~\$10,000 in addition to transportation logistics. He indicated that may be excessive for the Society vs. an onsite Awards Banquet at the Doubletree.

He also updated the search for 2022 Annual Meeting venues in South/North Carolina. Charleston and Greenville have good prices and plenty to do off site. Torres considers prices, layout/size of the meeting rooms, proximity among meeting rooms, rooms for Luncheons/Board meeting, air and ground transportation availability, etc.

The Meeting Planning Committee motioned the Board to approve travel expenses, not to exceed \$1,000.00, for Bill Torres to conduct site visits at venues in Greenville and Charleston, South Carolina for the APMS 2022 Annual Meeting. Jeremy Slade seconded the motion. The motion passed without dissenting vote.

Membership Committee: Chair Mark Heilman had no formal report. Issues will be covered in the Strategic Planning Report. Heilman discussed thoughts on acknowledging contributions by Mike Netherland to APMS and aquatic plant research. After reviewing input from many sources Heilman suggested re-naming the GSRG to the Michael D. Netherland Graduate Student Research Grant. There are three primary functions of the Society; the Annual Meeting, Journal, and the GSRG. While re-naming the GSRG is part of an honor to Mike's dedication to aquatic plant management, a true honor to Mike would be to reach the goal of issuing the Michael D. Netherland Graduate Student Research Award every year.

Scott Nissen motioned the Board to name the APMS Research Grant the “Michael D. Netherland APMS Graduate Student Research Grant”. Mark Heilman seconded the motion. The motion passed without dissenting vote.

Nominating Committee: Chair John Rodgers announced that the Vice President, Secretary, Editor and two Director positions need to be included for the slate of Officers and Directors for Membership approval at the 2019 Annual Meeting. Jay Ferrell agreed to serve another term as Editor and Schardt as Secretary pending approval by the Membership. Rodgers is working with Ryan Thum for Vice President and Chris Mudge and Lyn Gettys as Directors. Rodgers will confirm all for the slate and provide bios for each to post in the June Newsletter for Membership consideration.

2019 Slate of Officers and Directors

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

**Pending Ryan Thum's ability to schedule serving as President and on the Board for 4 years*

John Rodgers motioned the Board to approve the 2019 Slate of Officers and Directors pending ability of Ryan Thum to serve as Vice President. Jeff Schardt seconded the motion. The motion passed without dissenting vote.

Past President's Advisory Committee: Chair John Rodgers did not have a report but requested topics for the Past Presidents to discuss at the Past Presidents' Luncheon at the Annual Meeting.

Program Committee: Chair Mark Heilman advised that John Madsen has organized a session on the Sacramento Delta Regionwide Areawide Aquatic Weed Project (DWRAAP). There will also be an extensive Poster session on Monday evening.

Proposal Review Committee: Chair John Rodgers had one proposal; from the University of Florida to sponsor 2019 Plant Camp.

The Proposal Review Committee recommends that APMS fund the University of Florida Plant Camp for 2019 at \$1,000. This provides a significant contribution and is consistent with previous support. Todd Olson seconded the motion. The motion passed without dissenting vote.

John Rodgers motioned the Board to include the draft criteria and solicitation form (on pages 58-59 of the Midyear 2019 Board Book) in the APMS Operating Manual. Jeff Schardt seconded the motion. The motion passed without dissenting vote.

Publications Committee: No report.

Regional Chapters Committee: No report.

Scholastic Endowment Committee: Chair Tom Warmuth will raffle gift cards like last year that seemed to go well.

Strategic Planning Committee: Chair Mark Heilman provided updates on the four Goals of the Strategic Plan. Each item in Goal 1 (Financial Management Plan) has been addressed. The GSRG account currently has \$135,000 with a Goal of \$400,000-\$500,000, so there is more work to be done.

Todd Olson discussed Goal 2, Marketing and Outreach Plan. There are four tasks in Goal 2 that incorporate several Committees. The Board has approved funds to develop a social media platform. This goal also includes 1-2 White Papers and two JAPM press releases each year.

Mark Heilman offered to step down as Chair of the Membership Committee due to his involvement in other Committee and Board duties. Goal 3 is related to Membership and the Annual Meeting. Heilman suggested that Regional Chapter members may represent a good source of members for APMS. Schardt and Hartis pointed out that government aquatic plant management staff is dwindling, being replaced by for-hire contractors. Many of these people get what they need from Chapter Memberships and CEUs at Chapter meetings. They pay ~\$35 for Chapter membership but may not have incentive to pay an additional \$95 to be an APMS member. Nissen suggested that if

a person is a Chapter member, they should get a reduced membership for APMS equivalent to the \$95 APMS membership minus the Chapter dues.

Other discussion centered on offering short management articles or summaries of the JAPM articles only available to APMS members. These articles or summaries would be written from a management vs research or technical perspective.

Student Affairs Committee: Chair Chris Mudge requested that the Student Meet-and-Greet continue for this year. Mudge and Mark Heilman agreed that San Diego does not have much aquatic plant management activity and therefore may not be suitable for a post-conference Student Tour. Heilman suggested a trip to the Sacramento Delta and will explore flights from San Diego, lodging and other expenses.

Website Committee: Chair Ken Manuel advised the Board the APEX (APMS contract web master) has been very responsive to all requests for posting or revising information on the APMS web site. Manual asked for a summary of hits on the web site. The primary categories are the Journal, Annual Meeting information, and Newsletter.

AERF: No report.

BASS: No discussion on the submitted report.

CAST: No discussion on the submitted report.

NALMS: NALMS would like to continue sharing booth space at APMS / NALMS conferences.

RISE: Most issues were addressed in the WSSA and Legislative Reports.

Women of Aquatics: Representative Amy Kay reported that WOA is invited to speak at the Southern Division American Fisheries Society (AFS) meeting. AFS is considering establishing a women's leadership group. Kay indicated that WOA would like to continue with the luncheon during the 2019 APMS Annual Meeting.

WSSA: Lee Van Wychen reported that the discussion on transferring the USACE research portion of Civil Works into the Department of Interior and Department of Transportation will not go through. Bernalyn McGaughey (Compliance Services International) is exploring the possibility of a liaison between aquatic plant management interests and USFWS to address endangered / invasive species issues. This would be like the liaison with EPA to provide aquatic plant management issues and needs during the herbicide registration process. McGaughey is also organizing a conference among invasive and endangered species interests – in August 2019 in San Diego.

The USACE budget was approved with little change to aquatic plant management funding but an increase for boat inspection stations especially in the northwest.

Representative Richardson reported there are will be an aquatics session with 13 presentations scheduled at the upcoming WSSA conference in February 2019. Richardson advised that the

WSSA meeting in Arlington VA was very successful. If APMS wants to increase liaison activity with federal agencies, this might be a good location for the APMS Annual Meeting.

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

Old Business:

1. Starry Stonewort GSRG Overview

Dr. John Rodgers provided an update of the GSRG on starry stonewort to date. The team at Clemson has observed that starry stonewort has a small lag time from introduction into a waterbody until rapid growth and expansion. It is similar among lakes. Once one lake is infested, it soon expands to surrounding lakes. Rodgers' group is now focusing on managing established populations. Prevention of expansion to surrounding waters is key to reducing starry stonewort impacts. Therefore, harmonization among states is critical to stopping starry stonewort spread.

Only the male plants have been introduced into the U.S. so far. Starry stonewort is in Minnesota near the mouth of the Mississippi River. The group is conducting lab studies on viability of bulbil (reproductive structures) and fragments. These observations will be moved to field studies in 2019.

New Business:

1. APMS consideration of Florida Executive Order: Blue-Green Algae Task Force

APMS agreed to send a letter to Florida Governor DeSantis to serve on the Florida task force to address blue-green algae blooms. Dr. Rodgers expressed willingness to serve on the task force if offered by Florida. Ferriter and Schardt agreed to draft a letter to Ed Smith of the Florida Department of Environmental Protection who is coordinating the effort.

2. Address Florida FWC decision to pause aquatic plant control program.

There was discussion by the Board to address the Florida Fish and Wildlife Conservation Commission decision to pause aquatic plant management operations while seeking public input about the program. FWC leadership could use assurance from an outside professional entity that aquatic plant management in Florida is science-based and includes state-of-the-art integrated and adaptive measures. APMS will draft a letter to FWC in support of the program and offer expertise to address concerns.

3. Revise APMS Brochure and Logo

After discussion, the Board decided to pursue revising the APMS logo before updating the trifold membership brochure. Once the logo is revised, a brochure can be put into a template to quickly update or adapt a brochure to individual meetings. There was little support to even produce a brochure. There was discussion on updating the APMS Brand – including the APMS Logo.

Mark Heilman motioned the Board to provide up to \$500 to the Education and Outreach (E&O) Committee to redesign the APMS logo. The E&O Committee will present the recommended new logo for Board approval prior to the July 2019 Annual Meeting. Marc Bellaud seconded the motion. The motion passed without dissenting vote.

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

The Board meeting adjourned at 4:00 p.m., CDT.

Post – 2019 Midyear Board Meeting Motions via Email

1) Letter of Support – Florida FWC APC Program

Background: Florida Fish & Wildlife Conservation Commission sent this bulletin on 01/24/2019
Beginning Jan. 28, the Florida Fish and Wildlife Conservation Commission (FWC) will temporarily pause its aquatic herbicide treatment program throughout the state. During this pause, staff will work to collect public comments regarding the FWC's aquatic plant management program.

The FWC will hold several public meetings to gather community input about the program. Specific dates and locations of these meetings will be announced shortly. Comments can also be sent to Invasiveplants@MyFWC.com.

Invasive plants degrade and diminish Florida's waterways by displacing native plant communities. Some invasive aquatic plants pose a significant threat to human welfare and cause economic problems by impeding flood control and affecting recreational use of waterways.

Mark Heilman motioned the Board that APMS provide a letter of support to FWC and further communicate to our members and regional chapter leadership asking them to consider contact with FWC as well. Amy Ferriter Seconded the motion. The motion passed 10-0-0.

President's Report

Submitted by: Craig Aguillard

Attended several Regional chapter meetings including FAPMS, MSAPMS, TXAPMS and presented the APMS update. Conference calls were held with Chair Todd Olsen and his committee on the marketing and outreach committee. Issues were on who would be responsible for submitting information on a timely manner to keep the Social Media platform going. Recommendations will be discussed at the board meeting. Dr. Chris Mudge resigned as Chairman of the Students Affair committee after many years of doing a great job with the students. I Appointed Sam Sardes as Chair of that committee who will appoint a committee to support her efforts. Several new APMS Logos were designed and submitted by Brett Hartis but no definite conclusion was reached on which one is the best fit for APMS. Chairman Bill Tores and his committee reviewed several sites for the 2022 annual meeting and made a recommendation the we hold the meeting at the Hyatt Regency in Greenville SC with Board approval.

July 2, 2019

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

From: Jeremy G. Slade

Subject: Report of the Treasurer

General and Scholastic Accounts

Enclosure 1. Summary of the General and Scholastic Checking and Investment Accounts. Totals are as of 7/2/2019.

Investment Portfolio Performance: See Finance Committee Report.

2019 Income and Expenses Report

Enclosure 2. Summary of income and expenses for the period January 1, 2019 through July 2, 2019.

The State Bank Investment Policy Statement and Corporate Resolution

Enclosure 3. The State Bank is requesting APMS update the Investment Policy Statement (IPS) and provide a letter of Corporate Resolution including meeting minutes regarding the change of Finance Committee Chair.

APMS Audit and Federal Return

All APMS financial records and related information has been provided to Winston, Williams, Creech, Evans & Company, LLP to conduct the annual audit of our financial statements as of December 31, 2018. They are in the process of reviewing and preparation of federal return. Estimated fee is \$6,125.

3 Enclosures

The Aquatic Plant Management Society, Inc.
General and Scholastic Accounts
July 2, 2019

General and Scholastic Accounts

General Accounts

Checking (general op.)	\$148,724.22
Investment (including reserve)	\$263,977.98

Total General Accounts	\$412,702.20
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Scholastic Accounts

Checking (discretionary)	\$873.08
Investment (disc. subaccount)	\$146,899.41

Total Scholastic Accounts	\$147,772.49
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Total General and Scholastic Accounts	\$560,474.69
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The Aquatic Plant Management Society, Inc. 2019 Income and Expense Report January 1 through July 2, 2019

Jan 1 - Jul 2, 19

Ordinary Income/Expense	
Income	
Annual Meeting Income	
Contributions	53,389.00
Delegate 1-Day Registration	200.00
Delegate Pre-Registration	23,700.00
Delegate Registration	3,750.00
Event Tickets	345.00
Exhibit Fees	18,400.00
Guest Pre-Registration	1,040.00
Guest Registration	155.00
Student Registration	75.00
Total Annual Meeting Income	101,054.00
Journal Income	
Page Fees	3,437.50
Research Methods Publication	105.00
Subscriptions	1,200.00
Total Journal Income	4,742.50
Membership Income	
Individual	21,280.00
Student	40.00
Sustaining	11,500.00
Total Membership Income	32,820.00
Scholastic Endowment Income	
Contributions	408.20
Netherland Memorial	30,050.00
Total Scholastic Endowment Income	30,458.20
Total Income	169,074.70
Expense	
Annual Meeting Expense	
Audio Visual Equipment	100.00
Deposit	1,000.00
Meeting Planner	283.32
Poster Boards	740.00
Total Annual Meeting Expense	2,123.32
Awards	
Plaques/Certificates	1,769.78
Total Awards	1,769.78
Corporation Annual Report Fee	61.25

The Aquatic Plant Management Society, Inc.
2019 Income and Expense Report
 January 1 through July 2, 2019

	Jan 1 - Jul 2, 19
Credit Card Merchant Processing	
Card Fees	3,632.50
Total Credit Card Merchant Processing	3,632.50
Dues	
AERF	1,000.00
CAST	1,500.00
RISE	575.00
WSSA	6,500.00
Total Dues	9,575.00
Education/Outreach	
Journal Expense	3,000.00
Editor Stipend	6,000.00
Manuscripts	6,528.91
Printing & Postage	126.40
Total Journal Expense	12,655.31
Meeting Planner	
Meeting 3 years out	750.00
Travel reimbursement	699.86
Total Meeting Planner	1,449.86
Miscellaneous	659.99
Professional Fees	
Consulting	550.00
Total Professional Fees	550.00
Scholastic Endowment Expense	
Graduate Assistantship	50,000.00
Total Scholastic Endowment Expense	50,000.00
Secretary Stipend	5,000.00
Supplies	115.01
Website	
Administration	2,700.00
Total Website	2,700.00

The Aquatic Plant Management Society, Inc.
2019 Income and Expense Report
January 1 through July 2, 2019

	Jan 1 - Jul 2, 19
Winter Board Meeting	
Audio Visual Equipment	238.77
BOD Hotel Rooms	2,034.19
Meals	2,672.61
Travel	62.50
Total Winter Board Meeting	5,008.07
Total Expense	98,300.09
Net Ordinary Income	70,774.61
Net Income	70,774.61



THE STATE BANK

TRUST DEPARTMENT

175 N LEROY STREET • PO BOX 725 • FENTON MI 48430-0725 • PHONE 810-629-2263

INVESTMENT POLICY STATEMENT

Aquatic Plant Management Society Inc Principal ("Trustee") and The State Bank, Trustee ("Bank") entered into agency agreement dated April 24, 2019 do hereby agree to the following investment approach:

1. INVESTMENT OBJECTIVES -

Balanced

2. TIME RESTRAINTS -

Long Term – Over 30 years

3. RISK TOLERANCE -

Moderate - Management of the overall portfolio is through a diversified approach using Fixed Income, Equities, ETF's and Non-Proprietary Mutual Funds to manage market risk and volatility. Diversification and asset allocation do not assure nor protect against market losses.

4. ASSET ALLOCATION -

Target

5% Cash
45% Fixed Income
50% Equities

Ranges

0 – 10% Cash
40 – 50% Fixed Income
45 – 55% Equities

5. ORIGINAL INVESTMENT SUGGESTIONS -

N/A

6. MISCELLANEOUS -

N/A

This Investment Policy Statement shall be reviewed by the "Bank" and the "Customer" and may be changed or revised at any time.

I understand and acknowledge that The State Bank receives annual shareholder service fees of one quarter of one percent (0.25%) on Federated money market obligations funds from Federated Investors Inc.

The State Bank

By


Dennis E Leyder

Its Senior Vice President & Trust Officer

Jeremy G Slade, Treasurer

John W Gardner, Finance Chair



THE STATE BANK

TRUST DEPARTMENT

175 N LEROY STREET • PO BOX 725 • FENTON MI 48430-0725 • PHONE 810-629-2263

INVESTMENT POLICY STATEMENT

Aquatic Plant Management Society Inc Scholastic Endowment Principal ("Trustee") and The State Bank, Trustee ("Bank")

entered into agency agreement dated April 24, 2019 do hereby agree to the following investment approach:

1. INVESTMENT OBJECTIVES -

Balanced

2. TIME RESTRAINTS -

Long Term – Over 30 years

3. RISK TOLERANCE -

Moderate - Management of the overall portfolio is through a diversified approach using Fixed Income, Equities, ETF's and Non-Proprietary Mutual Funds to manage market risk and volatility. Diversification and asset allocation do not assure nor protect against market losses.

4. ASSET ALLOCATION -

Target

5% Cash
45% Fixed Income
50% Equities

Ranges

0 – 10% Cash
40 – 50% Fixed Income
45 – 55% Equities

5. ORIGINAL INVESTMENT SUGGESTIONS -

N/A

6. MISCELLANEOUS -

N/A

This Investment Policy Statement shall be reviewed by the "Bank" and the "Customer" and may be changed or revised at any time.

I understand and acknowledge that The State Bank receives annual shareholder service fees of one quarter of one percent (0.25%) on Federated money market obligations funds from Federated Investors Inc.

The State Bank

By


Dennis E. Leyder

Jeremy G. Slade, Treasurer

Its Senior Vice President & Trust Officer

John W. Gardner, Finance Chair



THE AQUATIC PLANT MANAGEMENT SOCIETY, Incorporated

**Center for Aquatic and Invasive Plants
7922 NW 71st Street
Gainesville, FL 32653**

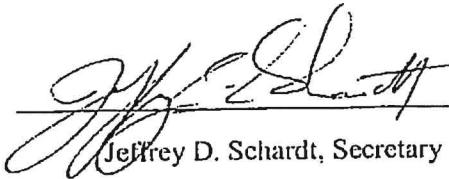
RESOLUTION OF THE BOARD OF DIRECTORS

The Board of Directors of the Aquatic Plant Management Society, Incorporated, at a meeting duly called and held on July 14, 2014, adopted the following Resolution:

BE IT RESOLVED, that Jeremy Slade as Treasurer or John Gardner as Chair, Finance Committee are hereby authorized to transfer, purchase, or redeem assets in the Aquatic Plant Management Society's account with the State Bank Fenton, MI in accordance with the written agreement between The Aquatic Plant Management Society, Incorporated and the State Bank.

This Resolution will remain in effect until rescinded by the Board of Directors.

Date: 7-30-14



Jeffrey D. Schardt, Secretary

ADDRESS REPLY TO:

Jeffrey D. Schardt
APMS Secretary
% FL Fish and Wildlife Conservation Commission
3900 Commonwealth Blvd. MS705
Tallahassee, FL 32399
Phone: 850-617-9420
Fax: 850-922-1249
jeff.schardt@myfwc.com

Secretary Report
Board of Directors Meeting, APMS
July 14, 2019
San Diego, California

Submitted by: Jeffrey D. Schardt, Secretary

Annual Meeting Program: The Secretary works with the Program Committee to format, assemble information, and oversee printing and delivery of the Program. 175 Programs were printed this year. Programs are printed by PRIDE Industries in Florida, associated with the FL prison system. Since APMS is a not-for profit entity, PRIDE offers a reduced rate on printing. Duke Energy has again offered to reimburse APMS for the \$1,347.50 printing costs of the Program. APMS will pay the 147.08 shipping cost to San Diego.

Membership: I sent a thank you letter on January 2 to each 2018 Sustaining Member, summarizing APMS activities from the previous year and asking for their continuing membership. Sustaining Members are recognized in the Annual Meeting Program, in the Newsletter and on the web site where a Sustaining Member company statement is linked to their web site. We have 25 Sustaining Members for 2019. Sustaining Membership is \$500 per year, half of which is deposited into the Scholastic Endowment Fund.

APMS Membership is fluid as new members join throughout the year and existing members pay dues from January through registration at the Annual Meeting. In 2019, I emailed invoice notices to Student and Individual Members on January 2, February 12, and March 14. By May 15, we still had 60 members from 2018 that had not paid 2019 dues. I sent a final notice via U.S. mail on May 26. About 15 responded to the final May mailing and renewed for 2019; one advised he would not be renewing.

Since July 30, 2018 (after the 2018 Annual Meeting) we have 28 new members (as of July 7) that have paid 2019 dues. Eleven are from the Western region. Since many paid the \$395 or \$470 Registration fee for the Annual Meeting, they will also be members for 2020. Additionally, 32 people that are not current APMS members registered for the 2019 Annual Meeting and will receive a 2020 APMS Membership. Twenty-four are from the Western region. We get a lot of new memberships during Annual Meeting Registration, especially for joint meetings with Chapters, but many of these new members do not renew the following year. See attached New Member lists.

Total membership for APMS as of July 7, 2019 is ~263 and breaks down as follows:

2019 - 2020 Total		Type	2012	2013	2014	2015	2016	2017	2018	2019-20
258	USA	Individual	223	265	248	244	213	205	220	180
5	International	Honorary	16	17	19	19	21	223	24	26
		Student	26	33	25	30	32	33	38	32
28	Subscription	Sustaining	17	16	16	18	21	26	27	25
		Total	282	331	308	311	287	286	308	263

When calculating total membership, I used to include members who have paid dues for the current and most recent previous year. After sending three email notices and a fourth notice by U.S. mail, 46 members who paid for 2018 have not renewed for 2019. Using the previous membership calculation strategy, I would have added the 46 unpaid 2018 members with the 263 members for a total membership of 309. Some may pay 2019 dues at the Annual Meeting and we will have a more accurate accounting after the meeting.

Newsletter: Three Newsletters were published since the last Annual Meeting. The 2019 Officer and Director Slate requires a general membership vote at the Annual Business Meeting. The slate was published in the June Newsletter which was posted on the APMS web site and members notified by email more than 30 days prior to the Annual Meeting. Newsletters take about 15-20 hours each for the three annual issues.

Expenditures: Following are Secretary expenditures for the current Board year – since the close of last year’s Annual Meeting.

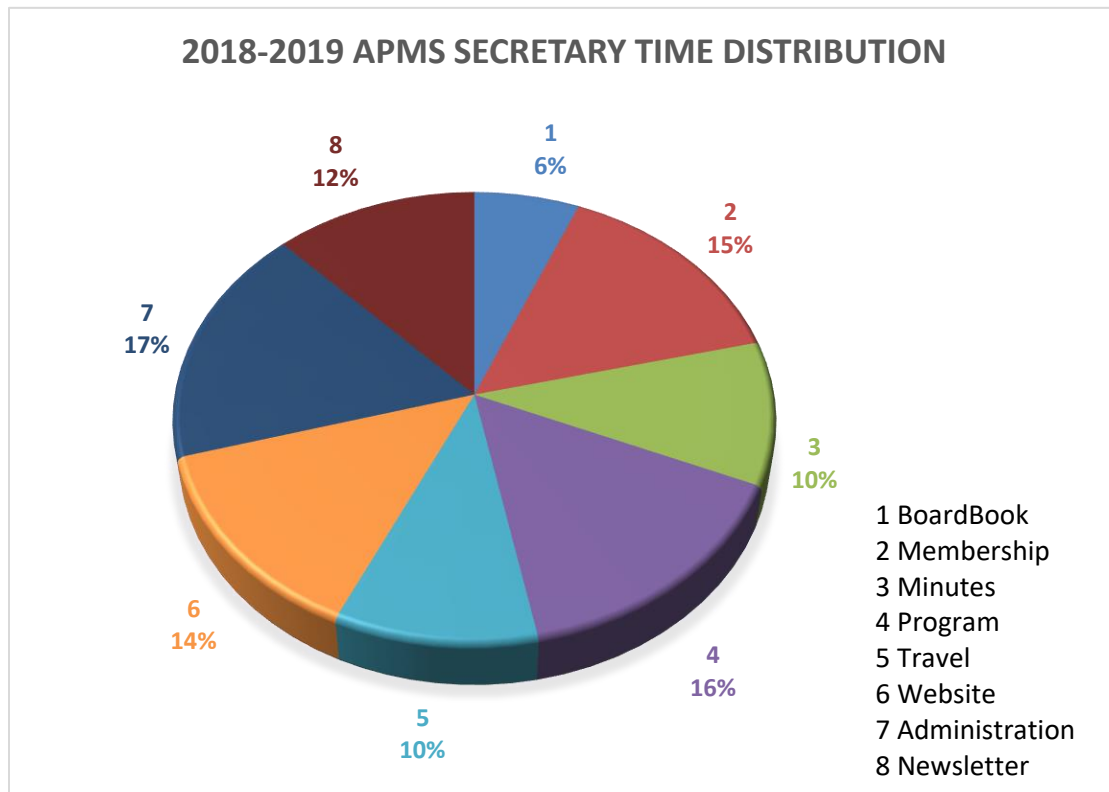
Secretary Expenditures - July 31, 2018 - July 7, 2019

Date	Shipping / Postage	Travel	Supplies	Amount
07/31/18	Replace & New Mbr. Jrnls.			21.17
08/01/18			Slide/Photo Scanner	224.69
10/23/18	New Mbr. Jrnl. - Research Methods			14.30
11/02/18	New Mbr. Jrnl. - Research Methods			6.70
11/19/18	New Mbr. Jrnl. - Research Methods			6.70
12/28/18	New Mbr. Jrnl. - Research Methods			6.70
01/24/19	Mail Journals - Clarivate Analytics			6.70
01/25/19		Gas - BOD San Antonio		62.50
02/05/19	Mail Journals - Research Methods			58.30
02/08/19	Mail Journal to MND Student			2.05
02/13/19	Mail B. Torres Teleconf Speakers			14.35
02/14/19	Mail Journals - Research Methods			14.70
02/25/19	New Mbr. Jrnl. -Research Methods			7.35
03/07/19	Mbr. Renew & New Mbr. Jrnl. - Research			14.70
03/08/19	Replacement Journal			2.05
03/21/19	New Mbr. Jrnls. - Mbr. Renewals			16.75
04/15/19	Mail Journal			2.05
04/26/19	New Mbr. Jrnl. - Research Methods			7.35
05/01/19	Airfare ATL-SAN			552.60
05/10/19	New Mbr. Jrnls./Resrch Methods/Photos			38.09
05/17/19	New Mbr. Jrnls / Research Methods			22.05
05/24/19	New Mbr. Jrnls. / Replace Jrnls.			49.15
05/27/19			Stamps/envelopes/ink	191.33
06/06/19	New Mbr. Jrnls.			7.35
06/17/19	New Mbr. Jrnls			29.40
06/28/19	Replace & New Mbr. Jrnls.			9.40
	Total			1388.48

Secretary Time Distribution: Most of the Secretary’s work between the Midyear and July Board meetings is focused on membership updates, Newsletter publication, and assisting with the Annual Meeting Program. I have been logging time spent on APMS Secretarial duties since January 2015 to account for issues handled by the APMS Secretary and approximate times associated with these efforts. I logged approximately 410 hours in 2015, 392 in 2016 and 454 hours for 2017. The increase reflects additional time dedicated to the Newsletter since acquiring this duty. I logged ~492 hours from July 4, 2018 through July 5, 2019. About 20 hours were spent scanning archive slides from

1985-1992. I added these hours to web site activities and worked with APEX to post the photos on the web site under Annual Meetings / Annual Meeting Archives. They are posted in folders called Photo Album for each year. See table below for 2018-2019 Secretary hours from July 4, 2018 through July 5, 2019.

Brdbook	Mbrshp.	Minutes	Prgm.	Travel	Website	Admin.	Newsletter	Total
30.75	73.25	50.5	76	49.25	67.25	85	59.5	491.50



New Members for 2018-2019

#	Name	State	Date Joined	Type	ID
01	George Fullerton	Georgia	10-09-18	Individual	2153
02	Emiliana Omick	Massachusetts	10-17-18	Individual	2154
03	Ashlee Kirkwood	Massachusetts	11-01-18	Individual	2155
04	Katie Vasquez	Texas	11-03-18	Student	2156
05	Matthew Horton	Arkansas	11-13-18	Individual	2157
06	Lynde Dodd	Texas	12-26-18	Individual	2158
07	Cody Smithson	Tennessee	01-12-19	Individual	2159
08	Erika Van Goethem	North Carolina	01-17-19	Individual	2160
09	Joseph Gravelie	Indiana	01-17-19	Individual	2161
10	Michael Hiatt	Indiana	01-18-19	Individual	2162
11	Ken Tuck	South Carolina	03-15-19	Individual	2168
12	Justin Dewitt	Arizona	04-17-19	Individual	2170
13	Luke Keeton	Colorado	05-07-19	Individual	2179
14	Eric Sager – last pd. 2013	Ontario	05-07-19	Individual	1812
15	Angela De Palma-Dow – last pd. 2016	California	05-13-19	Individual	2073
16	Mike Stephenson	California	05-14-19	Individual	2182
17	James Bellis	California	05-14-19	Individual	2183
18	John Goidosik	Michigan	05-20-19	Individual	2184
19	Wendy Crowell	Minnesota	05-20-19	Individual	1186
20	Paul Westcott	Arizona	05-20-19	Individual	1506
21	John Miskella	California	06-03-19	Individual	2188
22	Brian Sweeney	California	06-10-19	Individual	2190
23	Michael Lehman	California	06-10-19	Individual	2191
24	Wendy Pratt	California	06-13-19	Individual	2192
25	Ben P. Sperry	Florida	06-14-19	Individual	2195
26	Laura Herrick	Wisconsin	06-17-19	Individual	2199
27	John Morton	Alaska	06-26-19	Individual	2201
28	Darrel Bagioti	Florida	07-05-19	Student	2206
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40					

New Members for 2020 – Annual Meeting Registrations

#	Name	State	Date Joined	Type	ID	Reg.
01	Carolyn Ruttan	California	02-19-19	Individual	2163	O
02	Guy Kyser	California	02-21-19	Individual	2164	O
03	Kirk Myers	Idaho	02-27-19	Individual	2165	O
04	Ruoyu Wang	California	03-12-19	Individual	2166	O
05	Cory Greer	Washington	03-12-19	Individual	2167	M
06	John Bramcamp	California	04-12-19	Individual	2169	O
07	Peter Rice	Montana	04-22-19	Individual	2171	M
08	Christopher Grasso	Mississippi	04-22-19	Individual	2172	O
09	David Blodget	California	04-25-19	Individual	2173	O
10	Gavin Cullumber	Arizona	04-29-19	Individual	2174	O
11	Todd Pederson	California	05-02-19	Individual	2175	O
12	Doug Kleweno	California	05-05-19	Individual	2176	M
13	Zach Kuzniar	California	05-05-19	Individual	2177	M
14	Scott Bryan	Arizona	05-06-19	Individual	2178	O
15	Angelica Reddy	California	05-08-19	Individual	2180	O
16	Moe Finke	Florida	05-13-19	Individual	2181	O
17	John Paul Culligan	Idaho	05-22-19	Individual	2185	O
18	Carl Hayes	Idaho	05-30-19	Individual	2186	M
19	Karen Jetter	California	05-30-19	Individual	2187	O
20	Mark Warman	Ohio	06-05-19	Individual	2189	O
21	Patrick Moran (renew from 2012)	California	06-10-19	Individual	1565	O
22	Dail Laughinghouse	Florida	06-14-19	Individual	2193	O
23	Trent Shelton	Idaho	06-14-19	Individual	2194	O
24	Sue Cruz	Florida	06-17-19	Individual	2196	O
25	Sara Ohadi	California	06-18-19	Individual	2197	O
26	Christie Morgan	California	06-18-19	Individual	2198	O
27	Zachary Hache	Idaho	06-25-19	Individual	2200	O
28	Casey Williams (renew from 2014)	Texas	07-02-19	Individual	1895	O
29	Michael Greer	New York	07-03-19	Individual	2202	O
30	Thomas Jabusch	California	07-03-19	Individual	2203	O
31	David Bubenheim	California	07-03-19	Individual	2204	O
32	Michelle Selander	Illinois	07-03-19	Individual	2205	O
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2 June 2019

MEMORANDUM

From: Vernon V. Vandiver, Jr.

Subject: Nominations for Honorary Membership, APMS

To: APMS Board of Directors, Through Jeffrey D. Schardt,
APMS Secretary

1. An Award Nomination Form has been completed for Honorary Membership with Kenneth L. Manuel, Nominee. The Award Nomination Form, the Petition for APMS Honorary APMS Membership, and the Curriculum Vitae will be sent to the APMS Secretary.
2. An Award Nomination Form has been completed for Honorary Membership with Eric Barkemeyer, Nominee. The Award Nomination Form, the Petition for APMS Honorary APMS Membership, a Supporting Evaluation Letter, and the Curriculum Vitae will be sent to the APMS Secretary.
3. Respectfully Submitted,
Vernon V. Vandiver, Jr.
Chair, Bylaws and Resolutions Committee

The Aquatic Plant Management Society, Inc.

Award Nomination Form

AWARD: Please Select 1

- | | |
|--|--|
| <input checked="" type="checkbox"/> Honorary Membership | <input type="checkbox"/> Outstanding Graduate Student |
| <input type="checkbox"/> Max McCowen Friendship Honor | <input type="checkbox"/> Outstanding Research/ Technical Contributor |
| <input type="checkbox"/> T. Wayne Miller Distinguished Service | <input type="checkbox"/> Outstanding International Contribution |

NOMINEE

NAME: Eric Barkemeyer

ADDRESS:

TELEPHONE: (704) 502-1064

EMAIL: epbdavidson@gmail.com

YEARS OF MEMBERSHIP: 34 (since 1984)

NOMINATOR

NAME: John Madsen

TELEPHONE: (662) 722-0157

EMAIL: jmadsen@ucdavis.edu

I. Cover letter:

Include contributions of the candidate to the discipline of aquatic plant management and qualifications for this award.

II. Curriculum Vitae

Include relevant work experience and also special honors or awards that demonstrate the impact to the profession that this candidate has provided during in his or her career to the profession.

III. Supporting Evaluation Letters.

Include letters from individuals expressing support of candidate for this award.

March 4, 2019

MEMORANDUM

FOR Bylaws Committee, APMS

FROM John Madsen, USDA ARS

CC Jason Ferrell, Awards Committee Chair

SUBJECT Nomination of Eric Barkemeyer for Honorary Membership

I have enclosed the Award Nomination Form and a petition with more than ten signatures to nominate Eric Barkemeyer for an Honorary Membership in the Aquatic Plant Management Society.

Eric has been involved in the aquatic industry since 1979, and has continued his commitment and contribution to APMS and its regional chapters throughout that time. Eric joined Pennwalt Corporation as a Product Manager in 1979. He became the Southern Region Manager for the AgChem Division, assuming responsibility for the aquatic herbicide product line in the Southern United States in 1984. In 1999, he joined Cygnet Enterprises as a Regional Manager. Eric became Aquatic Market Manager for Alligare in 2011, a job he held until his retirement on January 31, 2019.

Eric served on the board of the South Carolina Aquatic Plant Management Society in 1995. In 1998, he was elected to the board of APMS. He was elected as president of MidSouth APMS in 2003, and as President of APMS in 2004.

During his service as Aquatic Market Manager for Alligare, Eric served as the Alligare representative to the Aquatic Ecosystem Restoration Foundation when they joined as a gold member.

Throughout his professional career, Eric has been a consistent supporter and participant of the Aquatic Plant Management Society and its regional chapters.

From: [Eric Barkemeyer](#)
To: [John D Madsen](#)
Subject: APMS
Date: Monday, March 04, 2019 2:03:19 PM

John,

Thank you for contacting me regarding Honorary Membership in ApMS. If I am selected, it will be a high honor for me and the organizations I represented in my career. A brief summary of my career:

Joined Pennwalt Corporation as a Product Manager - 1979.

Became Southern Region Manager for Agchem Division and assumed responsibility for the aquatic herbicide product line in the Southern US. - 1984.

Appointed as a Board Member of South Carolina ApMS - 1995

Elected to Board of APMS - 1998.

Elected President - MidSouth APMS - 2003

Elected President - APMS 2004

Joined Cygnet Enterprises as Regional Manager - 1999

Joined Alligare /as Aquatic Market Manager 2011

Retired from Alligare January 31, 2019

John, I realize this is very brief, but it helps me get it done in spite of everything going on. Thank you for considering me for this high honor.

Best regards,

Barkemeyer Petition Signatures

Number	Name	Email	Sent	Reply	Response
1	Ryan Wersal	ryan.wersal@mnsu.edu	2/28/2019	2/28/2019	Yes
2	Craig Aguiard	caguillard@landolakes.com	2/28/2019	3/1/2019	Yes
3	Joe Bondra	jbondra@cygnetenterprises.com	2/28/2019	2/28/2019	Yes
4	Bo Burns	bburns@solitudelake.com	2/28/2019	2/28/2019	Yes
5	Norma Cassinari	ngcassinari@alligare.com	2/28/2019	2/28/2019	Yes
6	Carl Della Torre	carldellatorre@gmail.com	2/28/2019	2/28/2019	Yes
7	Jay Ferrell	jferrell@ufl.edu	2/28/2019	2/28/2019	Yes
8	Vernon Vandiver Jr.	-	5/14/2019	5/30/2019	Yes
9	Brett Hartis	brett.hartis@duke-energy.com	2/28/2019	3/6/2019	Yes
10	Carlton Layne	clayne@aquatics.org	2/28/2019	3/1/2019	Yes
11	Chris Mudge	Christopher.R.Mudge@usace.army.mi	2/28/2019	2/28/2019	Yes
12	Linda Nelson	linda.s.nelson@usace.army.mil	2/28/2019	3/1/2019	Yes
13	Rob Richardson	rob_richardson@ncsu.edu	2/28/2019	2/28/2019	Yes
14	Jeff Schardt	jeff.schardt@gmail.com	2/28/2019	2/28/2019	Yes
15	Thomas Warmuth	twarmuth@biosafesystems.com	2/28/2019	2/28/2019	Yes

Eric Barkemeyer
phone 7045021064

The Aquatic Plant Management Society, Inc.

Award Nomination Form

AWARD: Please Select 1

- | | |
|--|--|
| <input checked="" type="checkbox"/> Honorary Membership | <input type="checkbox"/> Outstanding Graduate Student |
| <input type="checkbox"/> Max McCowen Friendship Honor | <input type="checkbox"/> Outstanding Research/ Technical Contributor |
| <input type="checkbox"/> T. Wayne Miller Distinguished Service | <input type="checkbox"/> Outstanding International Contribution |

NOMINEE

NAME: Ken Manuel

ADDRESS: 1036 South Magnolia Street Mooresville, NC 28115

TELEPHONE: 704-996-5221

EMAIL: klmanuel1@gmail.com

YEARS OF MEMBERSHIP: 35

NOMINATOR

NAME: Jeffrey D. Schardt

TELEPHONE: 850-591-1242

EMAIL: jeff.schardt@gmail.com

I. Cover letter:

Include contributions of the candidate to the discipline of aquatic plant management and qualifications for this award.

II. Curriculum Vitae

Include relevant work experience and also special honors or awards that demonstrate the impact to the profession that this candidate has provided during in his or her career to the profession.

III. Supporting Evaluation Letters.

Include letters from individuals expressing support of candidate for this award.

Kenneth L.” Ken” Manuel retired October 31, 2018 following thirty-eight years with Duke Energy Corporation in Charlotte, North Carolina. Ken started his biological studies at Okaloosa-Walton Junior College in Florida in 1967-1968 and completed his undergraduate degree in Zoology at the University of Alabama in 1970. Astonishingly his draft board lost track of him, so Ken completed one year of graduate studies in Zoology-Entomology at Auburn University before entering the military during the Vietnam War.



In 1971 he matriculated in the U.S. Army for four years with the infantry but later successfully transferred to environmental pollution studies on military installations in the U.S. based on his university training. Following military service, he continued his graduate studies in aquatic entomology and botany at Auburn, graduating with a M.S. in 1976. A naturalist at heart and armed with the G.I. Bill, Ken pursued his aquatic interests at Auburn with studies in chironomid midges, mosquitoes, aquatic botany, and caddisflies. His dissertation focused on the revision of the caddisfly plant case-making genus *Triaenodes* of North America.

In 1980 Ken began work for a small North Carolina electric power company Duke Power later Duke Energy, conducting studies on the impact of power production on the biota of streams, rivers and reservoirs in the Piedmont of the Carolinas. He and a close friend and working colleague for 38 years, Tommy Bowen, accrued many additional responsibilities including invasive aquatic plant management and mosquito control on 43 reservoirs in the Carolina Piedmont and mountains. While managing a reservoir mosquito control program that began in 1923, they observed the introduction and spread of monocious hydrilla into the region. Quickly adopting an “early detection and rapid response” program, they were able to stop the spread of hydrilla in their reservoirs with the use of herbicides to slow the spread of the plant followed by the judicious use of Asian Grass Carp to eradicate the hydrilla introduction.

Ken served on the Board of Directors and as President of the South Carolina Aquatic Plant Management Society in 1990. He served on several Aquatic Plant Management Society committees including Membership, Website and By-Laws, and participated in the 2012 and 2017 Strategic Planning sessions. Ken was on the APMS Board of Directors from 1997-1999 and 2002-2005, serving as President in 2004. In addition, he served as President of The North Carolina Mosquito and Vector Control Society, and as an active member of the South Carolina Mosquito Control Association. He is currently serving again as the APMS Website Committee Chairman. Ken feels his greatest professional contribution to the field of aquatic plant management has been his many years as a student paper judge at the SCAPMS and APMS annual meetings. “It has been an incredible pleasure to watch students grow and excel as they prepare to take on future challenging leadership roles in our profession and in APMS.” One of those former students, Dr. Brett Hartis, now leads the Duke Energy Reservoir Aquatic Plant Management Program; *Legatum per continues*, the legacy continues.

Petition for APMS Honorary APMS Membership

Ken Maxwell

	Name of APMS Member	
1	JEFF SCHWARTZ	<i>Jeff Schwartz</i>
2	Mark Heilman	<i>Mark Heilman</i>
3	Jay Ferrell	<i>Jay Ferrell</i>
4	Jeremy Shoen	<i>Jeremy Shoen</i>
5	Amy Ferrell	<i>Amy</i>
6	Brett Hartis	<i>Brett Hartis</i>
7	Mirella Ortiz	<i>Mirella Ortiz</i>
8	SCOTT NISSEN	<i>Scott Nissen</i>
9	Marc Bellard	<i>Marc Bellard</i>
10	JOHN RODGERS	<i>John H. Rodgers Jr.</i>
11	TODD OLSON	<i>Todd Olson</i>
12	AMY KAY	<i>Amy Kay</i>
13	Craig Aguiland	<i>Craig Aguiland</i>
14	Vernon Vandiver Jr	<i>Vernon Vandiver Jr.</i>
15		

Bylaws Consideration:

Article XIII of the Bylaws states that the Proposal Review Committee shall review all proposals submitted to the Society equal to or in excess of \$5,000 (see below). This amendment to the APMS Bylaws was approved by the general membership at the July 18, 2016 Annual Business Meeting in Grand Rapids, MI.

ARTICLE XIII. COMMITTEES and REPRESENTATIVES

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

On July 16, 2017, the Board voted to vet **all** externally submitted funding requests through the Proposal Review Committee (see below).

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

The July 16, 2017 Motion appears to conflict with the current Bylaws language. If the Board supports vetting all externally submitted funding requests through the Proposal Review Committee, I suggest we recommend a Bylaws change. The general membership needs to be notified about a proposed Bylaws change at least 30 days in advance of the Annual Meeting where they would vote on the matter. Therefore, we would need to present this issue to the membership at the 2020 Annual Meeting.

Draft language for a proposed Bylaws change is below.

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

TVA Plant Camp 2018/2019

TVA hosted 24 teachers at its 2018 Plant Camp on Guntersville Lake in Guntersville, Alabama. TVA held a 4-day camp which focused on a variety of topics including: aquatic plant identification, aquatic plant management, wetland dynamics and waterfowl management, terrestrial plant identification, prescribed fire science, and a bat cave emergence tour. This was TVA's fourth Plant Camp and was sponsored by APMS, MSAPMS, Syngenta, Cygnet Enterprises, and AERF. There were nearly 80 applications to attend the invite only camp in 2018. TVA will hold its 2019 camp in Guntersville as well, partnering with Duke Energy Corporation for a south eastern regional Plant Camp.

Florida Plant Camp 2019

Florida Plant Camp #14 was held at the University of Florida in Gainesville from June 10-14, 2019. Twenty-four teachers attended from across the state. Day 1 consisted of check-in, orientation, background review, and testing. On Day two the group visited upland sites overgrown with invasive plants for a first-hand experience in invasive plant ecology and management. Day three was a mix of classroom work and field activities on pond ecology, aquatic plant recognition, plant research and revegetation efforts. Day four brought together all the activities and concepts from the previous days during an airboat tour on Lake Toho. Teachers saw intact native plant habitat and areas overgrown with invasive plants like hydrilla, and ludwigia. Teachers were challenged by lake and plant managers who lead the tour to critique management approaches established by various stakeholder groups for the lake. That afternoon, teachers created Public Service Announcements about invasive plants from information learned at Plant Camp. Day five wrapped up Plant Camp 2019 with teachers participating in the Lakeville Activity before taking an exit exam and departing back to their districts.

In addition to the 24 teachers, nearly 30 instructors and staff participated in Plant Camp to make it a smooth learning experience. Teachers expressed many thanks to staff, volunteers and Plant Camp Sponsors, including APMS, FAPMS, SFAPMS and AERF.



TVA PLANT CAMP 2018 ~ Agenda

For emergencies contact Brett Hartis • cell: 256-426-3117 • bmhartis@tva.gov

DATE: Tuesday - Friday, September 11th – 14th, 2018

PURPOSE: (1) To provide teachers with expanded content knowledge and laboratory/field experience in the area of aquatic and wetland plant biology and ecology, with special emphasis on invasive plants. Participants will learn about and experience first-hand, the impacts invasive plants are having on the Tennessee Valley's ecology and economy. (2) To inspire teachers to share their knowledge with students and colleagues. (3) To teach new investigative techniques and instructional methods for teaching about aquatic and wetland plants. Professional Development Points provided upon completion by each individual school system/ state.

LOCATION: Lake Guntersville State Park | 1155 Lodge Drive, Guntersville AL 35976 | Please arrive by 4PM on September 11th; Sessions starts at 8AM on September 12th, 13th, and 14th.

IMPORTANT: Please be on time and plan to attend the entire workshop. Also, please plan to stay with us over night if at all possible. We can only provide Professional Development Units and materials to participants who are here the entire time. If you need to cancel, for any reason, please let us know as soon as possible so that your spot may be filled.

A FEW MORE DETAILS:

- **Meals:** We will be providing meals and snacks throughout your stay. This includes dinner on Tuesday night, all meals on Wednesday and Thursday, and breakfast and lunch on Friday. If you have any special dietary requirements, please let me know as soon as possible.
- **Transportation** to field-trip locations is provided. You are responsible for transportation to and from Lake Guntersville State Park.
- **What to bring:** bring hat/sunscreen, backpack or bag, camera, binoculars, light rain gear, and lots of energy! All linens and standard toiletries will be provided by Lake Guntersville State Park.

Thank you for taking the time to spend a few days with us! We look forward to working with you.

*If you post about this workshop on social media, please use **#TVAPlantCamp***

TVA PLANT CAMP 2018 ~ Agenda

For emergencies contact Brett Hartis • cell: 256-426-3117 • bmhartis@tva.gov

Tuesday, September 11 th			#TVAPlantCamp
Location: Lake Guntersville State Park Lodge – Goldenrod Room 1155 Lodge Drive, Guntersville AL 35976			
What to wear - Afternoon Mostly inside and open air space. Wear comfortable clothing.			
4:00pm		4:30pm	Get acquainted with your fellow campers and instructors
4:30pm		4:45pm	Pre-test and pre-workshop survey
4:45pm		5:30pm	Introduction, Lakeville Ice Breaker Activity with Dr. Brett Hartis (TVA)
5:30pm		6:15pm	<i>Silent Invaders</i> presentation with guiding questions and standards
6:15pm		6:25pm	Day One Wrap-up and Agenda Review
7:00pm		-	Evening Social and Dinner at Lake Guntersville State Park

TVA PLANT CAMP 2018 ~ Agenda

For emergencies contact Brett Hartis • cell: 256-426-3117 • bmhartis@tva.gov

Wednesday, September 12 th		#TVAPlantCamp
Location: Lake Guntersville State Park Lodge 1155 Lodge Drive, Guntersville AL 35976		
What to wear - Lightweight outdoor clothing is ideal, closed toes shoes and a hat are recommended.		
7:00am	8:00am	Continental Breakfast
8:00am	9:15am	Beneath the Surface: Aquatic Plant Science and Management with Dr. Brett Hartis (TVA) – Goldenrod Room
9:15am	9:30am	Break – Board buses to waterfront
9:30am	11:30am	Plant Identification with Dr. David Webb (TVA)
11:30am	12:00pm	Plant ID Challenge! (Divide Into 4 teams)
12:00pm	1:00pm	Waterfront Lunch/ TVA Aquatic Plant Management – with Dr. Brett Hartis (TVA)
1:00pm	2:00pm	Management, Herbicides, and Other Anecdotes with Carlton Layne (AERF)
2:00pm	5:30pm	Afternoon Field Trips (Divide into 3 teams at the shoreline) Station 1 - Tools of the Trade with Aqua Services Inc Station 2 – Airboat Tour with TVA Station 3 –Wetland Demonstration with Kim Pilarski-Hall (TVA)
6:30pm	7:15pm	Dinner at Lake Guntersville State Park
7:15pm	8:00pm	The Hydrilla Game

TVA PLANT CAMP 2018 ~ Agenda

For emergencies contact Brett Hartis • cell: 256-426-3117 • bmhartis@tva.gov

Thursday, September 13 th			#TVAPlantCamp
Location: Lake Guntersville State Park 1155 Lodge Drive, Guntersville AL 35976			
What to wear - Lightweight outdoor clothing is ideal, closed toes shoes and a hat are recommended.			
7:00am		8:30am	Continental Breakfast/ A Fish Tale
8:30am		8:45am	Board Buses to waterfront
8:45am		12:00pm	Morning Field Trips (Divide into 2 Teams) Station 1 - Electrofishing with John Justice and Kurt Lakin (TVA) Station 2 – Fish Seining/ sumping with Phil Ekema, Heath Haley, and KD Wood (ADCNR)
12:00pm		1:00pm	Lunch/ Rivers of Alabama with Michael Ezell (ADCNR)
1:00pm		1:45pm	Board Buses and Travel to Field Site
1:45pm		5:00pm	Afternoon Field Trips (Divide into 3 teams) Station 1 – Waterfowl Management with Courtenay Conring (ADCNR) Station 2 – Prescribed Fire with Josh Burnette (TVA), Kelvin Young (TVA) and Alabama A&M Station 3 – Water Quality in the Classroom with Vicki Jo Valentine (TVA)
5:00pm		5:30pm	Board Buses and travel to Dinner
5:30pm		6:30pm	Dinner in Scottsboro, AL (Dinner Location TBD)
6:30pm		6:50pm	Travel to Sauta Cave National Wildlife Refuge
6:50pm		8:00pm	Sauta Cave Bat Emergence with Bill Gates (USFWS)
8:00pm		8:45pm	Travel Back to Lake Guntersville State Park

TVA PLANT CAMP 2018 ~ Agenda

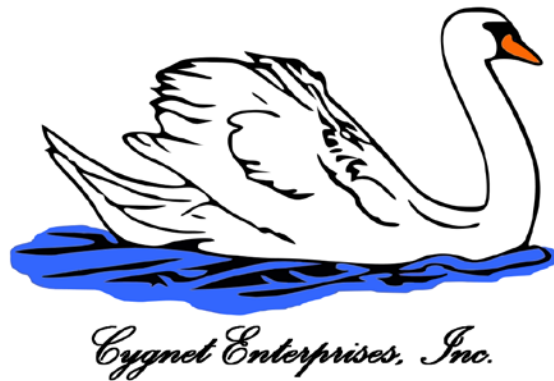
For emergencies contact Brett Hartis • cell: 256-426-3117 • bmhartis@tva.gov

Friday, September 14 th		#TVAPlantCamp
Location: Lake Guntersville State Park Lodge – Goldenrod Room 1155 Lodge Drive, Guntersville AL 35976		
What to wear - Afternoon Mostly inside and open air space. Wear comfortable clothing.		
7:00am	8:00am	Continental Breakfast
8:00am	11:30am	Participation and Review of Lakeville – A Natural Resource Management Activity
11:30am	11:45am	Round Table Discussion
11:45am	12:00pm	PLANT CAMP Post-test and Post-workshop Survey
12:00pm	-	Grab-n-go Lunch/ Plant Camp Adjourns

TVA PLANT CAMP 2018 ~ Agenda

For emergencies contact Brett Hartis • cell: 256-426-3117 • bmhartis@tva.gov

Please thank our Sponsors!



Scenes from Florida Plant Camp 2019



Draft APMS logo revisions received so far. Are there any favorites or elements from below that can be incorporated into another logo?

1



AQUATIC PLANT

Management Society

4



2



Aquatic Plant

Management Society

5



Aquatic Plant
Management Society

3



6



Aquatic Plant
Management Society

July 15, 2019

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

From: Dean Jones

Subject: Exhibits Report

Committee Members: Dean Jones and Todd Olson

Exhibitors

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

Sponsors

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

Historical Summary

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

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

AQUATIC PLANT

Performance Report

Jan 2019 - Jun 2019

Asset Class: Account

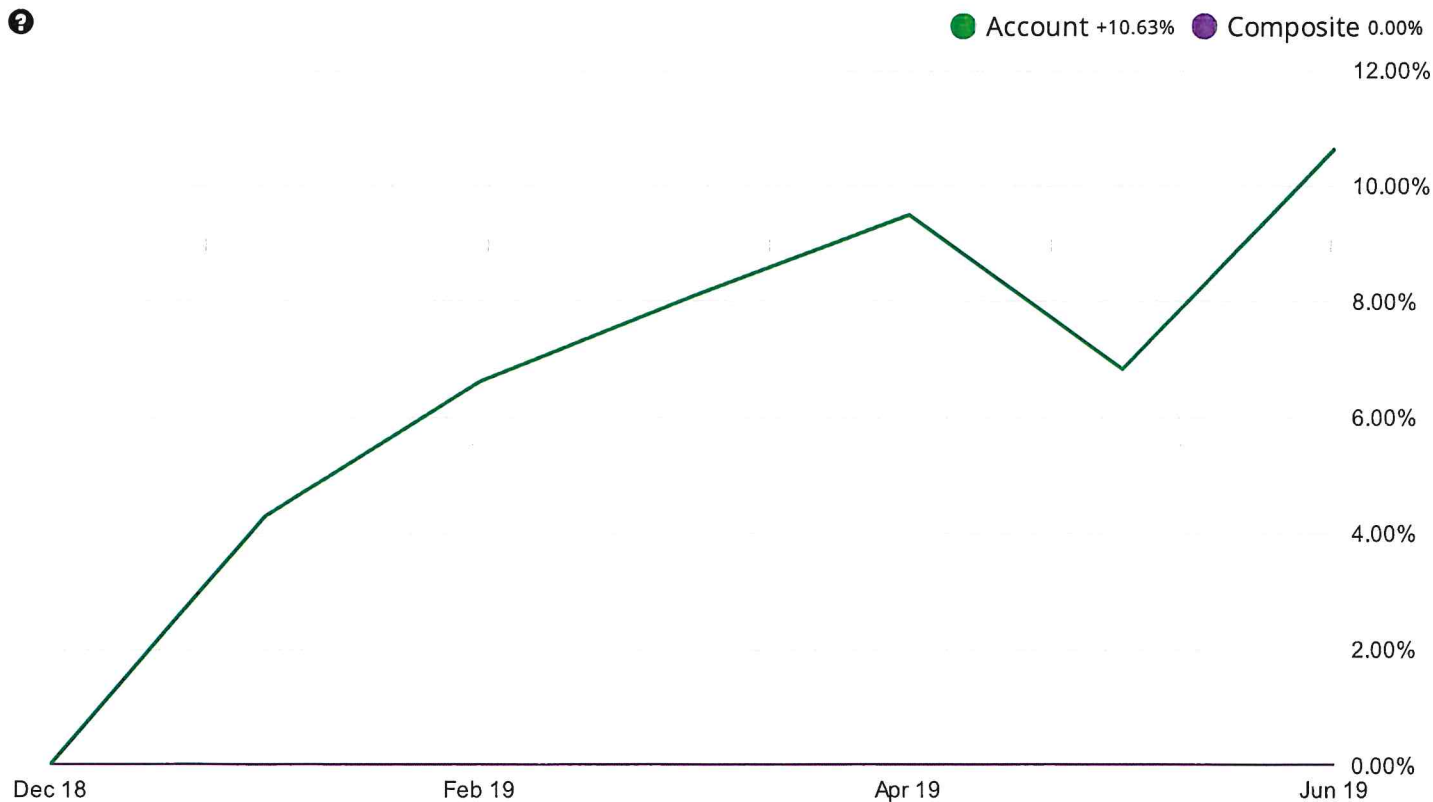
Returns

Total Account
10.63%











Composite Index
0.00%

Account Performance

Beginning MV (1/1/2019)	\$238,610.42
Net Change	0.00
Additions	0.00
Subtractions	0.00
Ending MV (6/30/2019)	\$263,977.98
Net Change in MV	\$25,367.56



Market Value Growth Over Time

Asset Class	Starting Portfolio %		Ending Portfolio %		Rate of Return	Market Value
Account					10.63%	
CASH EQUIVALENTS		2.6%		0.9%	1.01%	
EQUITIES		51.2%		51.6%	17.53%	
FIXED INCOME SECURITIES		46.2%		47.5%	4.51%	

AQUATIC ENDOWMENT

Performance Report

Jan 2019 - Jun 2019

Asset Class: Account

Returns

Total Account

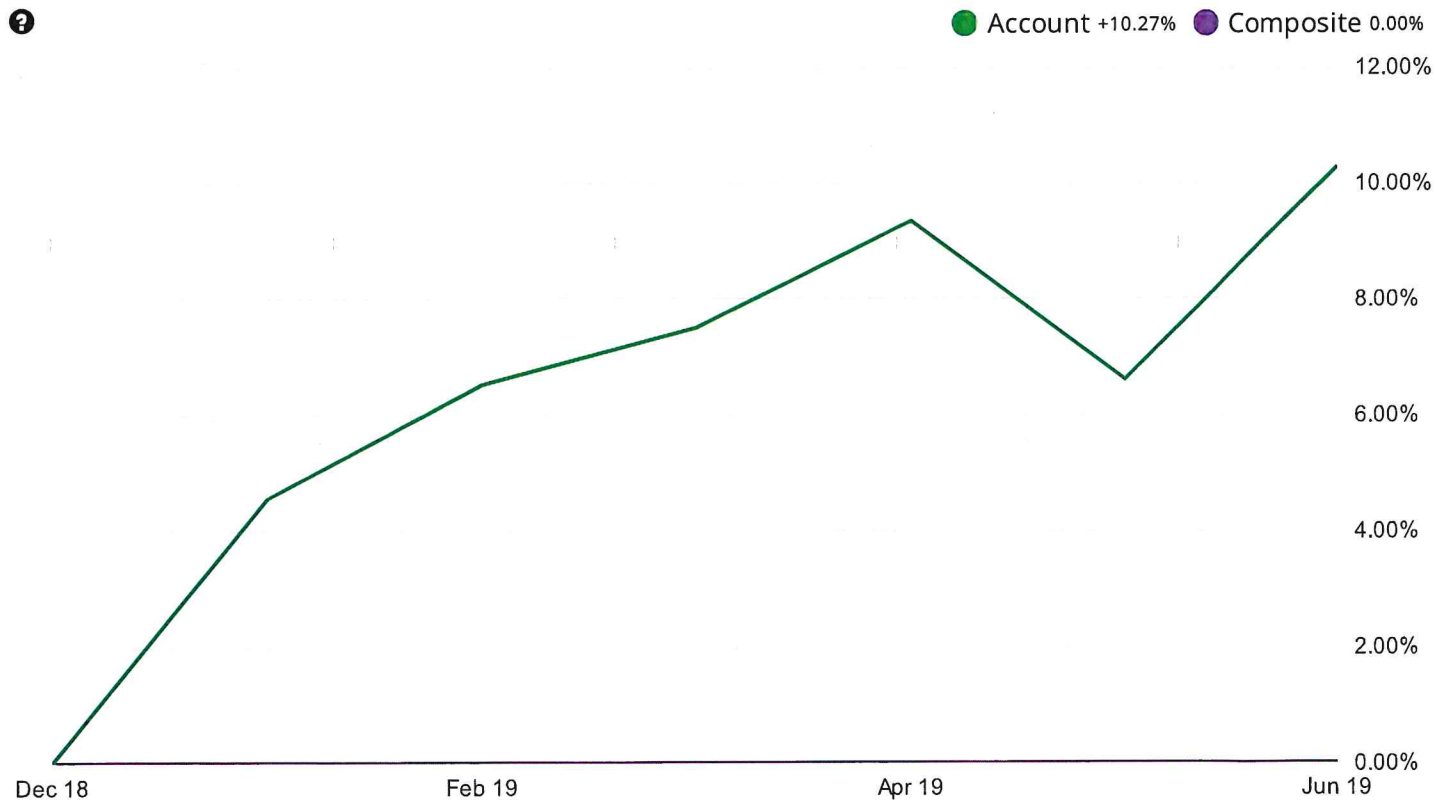
10.27%

Composite Index











0.00%

Account Performance

Beginning MV (1/1/2019)	\$133,220.44
Net Change	0.00
Additions	0.00
Subtractions	0.00
Ending MV (6/30/2019)	\$146,899.41
Net Change in MV	\$13,678.97



Market Value Growth Over Time

Asset Class	Starting Portfolio %		Ending Portfolio %		Rate of Return	Market Value
Account					10.27%	
CASH EQUIVALENTS		3.7%		1.9%	1.01%	
EQUITIES		47.7%		49.3%	17.79%	
FIXED INCOME SECURITIES		48.6%		48.8%	4.50%	

June 28, 2019

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

Subject: Report of the Meeting Planning Committee (MPC)

Committee Members:

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

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

By mid May 2019, reservations exceed the APMS group block of 497 at the DoubleTree Mission Valley. The group block was increased by 30 rooms at the rate of \$199.00 per night for upgraded guest rooms. At the end of June, 2019, 555 guest rooms are reserved at the DoubleTree. Due to Comic con beginning after the APMS meeting, guest rooms for Wednesday night, July 17 increased to \$450.00 per night. Therefore, the Town & Country hotel was secured for the students to stay the night of July 17, at a rate of \$199.00

The MPC has finalized the meeting requirements and coordinated with APMS officers and committee chairs regarding the other meeting necessities (exhibits, registration, audio/visual, student rooms, auctions, etc.).

The DoubleTree has an event at the hotel from July 12th - 14th, celebrating Pride week. They anticipate very high attendance around the pool and tennis court area with loud music. They may also have overnight events in the ballroom Friday and Saturday night. They also anticipate a pool party on Monday as well, but much smaller and tamer than the weekend. The venue has made several accommodations to comply with the Quiet Enjoyment clause in the contract, including locating the Board Meeting space at the opposite end of the hotel, and offering a credit of \$4,100.00 in the event it is decided to have the Presidents Reception off site.

Therefore, the Presidents Reception will be held off site at the Wood Ranch BBQ restaurant that has an outdoor patio. The Wood Ranch BBQ is located within a two minute walking distance from the DoubleTree and is located on the opposite side of the hotel from the pool and tennis courts.

60th Annual Meeting July 19-22, 2020, San Antonio, Texas

The contract was signed with the Hyatt Regency San Antonio on May 31, 2017 by APMS President Madsen as the site for the 2020 annual meeting, **July 19-23, 2020**. The APMS guest room block has 501 guest rooms at the rate of \$169.00. Meeting space is complimentary provide a minimum of \$30,000 is spent on food and beverage.

61st Annual Meeting July 11-15, 2021, New Orleans, Louisiana

The contract was signed with the Hilton New Orleans Riverside on June 22, 2018 by

APMS President Rodgers as the site for the 2021 annual meeting, **July 11-15, 2021**. The APMS guest room block has 548 guest rooms at the rate of \$169.00. Meeting space is complimentary provide a minimum of \$40,000 is spent on food and beverage.

62nd Annual Meeting, South Carolina

The Meeting Planning Committee initially reviewed 13 venues in 4 cities for the 2022 annual meeting in South Carolina. The committee narrowed the choices to 4 venues in two cities in Charleston and Greenville and Bill conducted site visits and provided hotel comparison charts for these hotels. Greenville is not a destination as popular as Charleston and Myrtle Beach, however it does offer a great venue, location and guest room price for attendees.

- The Hyatt Regency in Greenville has sufficient meeting space to accommodate the general session and exhibit area comfortably.
- The meeting space is located on the same level for easy flow of the conference. The hotel is modern and its location offers numerous venues for meals and evening entertainment in a safe environment.
- The Hyatt offers complimentary airport shuttle service.
- The guest room rate of \$159.00 is less than the highest amount APMS has paid in the past.
- The food and beverage guarantee is within the annual meeting budget (\$20K).

MEETING SPACE:

- The meeting rooms branch off the main lobby and are located at the lobby level, near the registration desk and concierge desk.
- There is a built in registration desk for APMS located across the meeting space. It also has a room behind the registration desk with a table that could be used for the meetings and storage.
- The Crepe Myrtle meeting space is large enough to accommodate either the board meeting or the student luncheon and is located right off the Regency ballroom.
- The Regency ballroom is 10,000 square feet and has several sections and could be used for the exhibit space as well as general session, and has high ceilings.
- The Hyatt the Studio Rooms with glass walls that it can be used for the awards reception and banquet, with TV monitors around the room so a screen would not be needed for any presentations. It can easily accommodate a hundred fifty people in rounds of eight per table.

VENUE & LOCATION:

- The Hyatt Regency Greenville, South Carolina is located on Main Street with 110

restaurants and pubs within walking distance, many with sidewalk seating areas under tree lined Main Street.

- Main Street is full of activity from singers, caricature artists, and mini concerts in the plaza area of the Hyatt.
- Falls Park is located about five blocks from the Hyatt with well landscaped walkways offering a nice area to walk.
- There is also a performing arts center just south of the river that host major Broadway productions, and a Comedy Zone located directly across the street from the Hyatt.
- Public parking garage next door charges \$7 overnight.
- Hyatt Greenville is similar to the Hyatt Regency San Antonio with an atrium lobby with a lot of open space, sitting areas and balconies that overlook into the atrium. The lobby has a circular bar with plenty of seating areas, oversized TV's and is open until 2 a.m.
- Greenville is a dog friendly city filled with people riding around on bicycles, walking their dogs, musicians playing on the streets, and live music in the evening.

Motion:

Bill Torres, on behalf of the Meeting Planning committee, presents the following motion to the Board. The APMS Meeting Planning Committee, after reviewing 13 venue sites for the 2022 annual meeting in South Carolina, recommends the Hyatt Regency in Greenville, South Carolina, as the host hotel for the annual meeting, July 17-20, 2022.

SCAPMS

One of the tasks assigned to Tommy Bowen during the post board meeting in Buffalo, New York was to contact SCAPMS leadership to see if SCAPMS wants to co-host the 2022 APMS Annual Meeting.

Bill Torres contacted SCAPMS President, Hugo Burbage on December 28, 2018, and received a response from SCAPMS President Burbage on January 3, 2019 accepting the opportunity to co-host the APMS meeting in 2022

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

July 3, 2019

The Immediate Past President has several responsibilities for the Aquatic Plant Management Society (from the APMS Operating Manual - Updated):

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 Chair of the Proposal Review Committee.
5. Serve as a member of the Strategic Planning Committee.
6. 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.
7. Make recommendations to the Bylaws and Resolutions Committee of proposed changes in operations of the Society requiring Bylaws changes.
8. 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.
9. Assist the Secretary with maintaining up-to-date addresses for all Past Presidents.
10. 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.
11. As designated by WSSA, serve as a member of the WSSA Nominating Committee.
12. Perform other duties delegated by the President or the Board of Directors.

Progress and activities during the past year are noted below:

Nominating Committee – The Nominating Committee provided the slate of potential officers and directors was provided and biographies of nominees were acquired for the Newsletter as required.

Past Presidents Advisory Committee – The Committee will meet in San Diego and I look forward to a lively discussion.

Update APMS Operating Manual – Thanks to Jeff Schardt, the APMS Operating Manual has been updated and reviewed. It is available for Board to review and approve.

Strategic Planning - The current Strategic Plan appears to be on target; we just need to continue to execute and achieve the lofty goals. There are several external and internal changes that may affect APMS in the future.

Proposal Review Committee – Several proposals were reviewed by the Proposal Review Committee over the past year. I thank Mark Heilman, Jeremy Slade, Matt Johnson, Amy Kay, and Jeff Schardt for their service on this Committee.

APMS Grant - work on the APMS Grant (Managing Starry Stonewort) continued. A progress report is attached.

I am looking forward to an outstanding meeting in San Diego, CA, in July, 2019. Special thanks to all that are involved and invested in APMS and its activities.

Respectfully submitted,

John H. Rodgers, Jr., Immediate Past President

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Respectfully submitted,

John H. Rodgers, Jr., Immediate Past President

John Rodgers
Tue, Jun 11, 7:53 AM

Hi Craig,

The proposal to upgrade the Abstract management platform that APMS shares with WSSA was approved unanimously by the proposal review committee. This information is provided in advance of our next meeting in July since this appeared to be time sensitive. Hope you are well.

Regards, John Rodgers

From: John Rodgers
Sent: Monday, June 10, 2019 7:57 AM
To: Mark Heilman <markh@sepro.com>; Jeremy Slade <jeremy.slade@upl-ltd.com>; Amy Kay <akay@cleanlakesmidwest.com>; Matt Johnson <MattJ@aquaticcontrol.com>; Jeff Schardt <jeff.schardt@gmail.com>
Subject: FW: WSSA issue - abstract platform APMS Proposal Review Committee

Good Morning!

Attached is a proposal to upgrade the Abstract management platform that APMS shares with WSSA. A bit of a paper trail is also below. We have been asked by the President to review this proposal. Please review and let me know your thoughts and vote (approve, disapprove, or it's complicated) over the next few days. Thank you in advance for your service to APMS. I hope you all are well.

Regards, John Rodgers

From: Rob Richardson <rob_richardson@ncsu.edu>
Sent: Saturday, June 08, 2019 5:03 PM
To: John Rodgers <jrodger@clemson.edu>
Subject: Fwd: WSSA issue - abstract platform

John,

All the information regarding the submission platform upgrade is below and attached. I believe Craig wanted me to send this to you.

Rob

----- Forwarded message -----

From: Rob Richardson <rob_richardson@ncsu.edu>
Date: Fri, Jun 7, 2019 at 9:35 AM
Subject: WSSA issue - abstract platform
To: Aguillard, Craig <CAguillard@landolakes.com>, Mark Heilman <MarkH@sepro.com>, Jeremy Slade <jeremy.slade@upl-ltd.com>, Ferrell, Jason <jferrell@ufl.edu>, Jeff Schardt <jeff.schardt@gmail.com>

All,

I was trying to wait to bring this up until the annual meeting, but I now need fairly quick feedback. A couple of the regional societies have been unhappy with the Apex title/abstract submission platform and wanted something grander. (My stated position to the WSSA board was that APMS was happy with the current platform.) WSSA got 2 quotes for an upgraded system. One had fairly significant annual costs and the other from Apex has a significant one time fee, but no additional annual costs. WSSA did have the position that regionals could support or not support and WSSA would pick up the difference. SWSS is now demanding that all regionals support or they will not support. The catch is that the current platform will be shut down, so my interpretation of the SWSS demand is that APMS must support the upgrade or will lose access to the current platform.

The Apex proposal is in the attachment. The current WSSA motion (for email vote) is below, but SWSS is demanding APMS and CWSS support.

"Motion is for WSSA to approve the APEX proposal so they can get started on the work. If the vote is positive, then WSSA is guaranteeing that APEX will get paid \$30,000." Supporting info on current motion: SWSS, NCWSS, WSWs and NEWSS have all indicated support for the upgrade at a rate of up to \$2500 each.

CWSS and APMS have not committed any resources for the upgrade. Regardless, if CWSS and APMS want to support the upgrade with some funding, then we would reduce the amount each of the other associated societies have committed by a proportional amount.

1. Go Live is Oct 1 if approved by June 15.
 - a. If the October 1 date is missed, then NCWSS (for example) will have to use the current system for this year's meeting. Same for any other group that wants to go live if the new system isn't ready for them. Once the new system is ready, then any groups that go live after that will use the new system.
 - b. They can have both the old and new systems online at the same time, if **needed**. Having both systems up and running at the same time will cause a lot more work for Apex, but that's their penalty for missing the Oct 1 date.
 - c. There is cost to have both old and new up and operating at the same time if a group is not ready or willing to make the switch and the system is live and ready.
2. Process and benchmarks:
 - a. The development process is an iterative approach. APEX will do some work, and then send a version to review and to give feedback; they take that feedback and work on the next iteration and then look at it again, and so forth. In September we will have the fully functional version available to try out and get familiar with. Then on October 1, the system will go online; at that point there should be no surprises. Everyone will have had time to use the system and get familiar with it.
 - b. No milestones, the only milestone will be October 1. In an iterative (agile) development process, you will be very involved; we'll continually be making adjustments to the system throughout the process. 'Milestones' aren't used by most software developers these days; that was the old way of doing development where you (the customer) wouldn't see a version of the software until we reached a milestone. This was called the waterfall model. That's not the way we work in an iterative agile approach. (google search: Agile vs Waterfall software development).
 - c. As part of the iterative approach, I (David) plan to have an online screensharing meeting every 2 weeks with you, to discuss the project and get feedback.
3. Database Search Functionality:

Search the database by title, title number, author, abstract, year, and society. This will be similar to the current search capabilities for older abstracts on this webpage:
<http://wssa.net/meeting/meeting-abstracts/>
The search will be across all societies.
The previous abstracts for each society, from 2007 thru 2019, will be imported into the database for searching.
Abstracts will remain available for searching indefinitely.
The presentation slides file that is associated with each abstract will be available for download from the search page.
These files will remain available for retrieval indefinitely
Note: the slides file itself won't be searchable.
4. File Upload:
 - a. The maximum size of file upload will be approximately 200MB
 - b. No restrictions on type of file
 - c. Files will be available for download indefinitely

- d. Note: as server storage is consumed, the server hosting fees will increase
5. Modern Look:
 - a. I (David) don't have screen shots or demos of what the new user interface will look like. But in general, we'll be using a look and feel that is found in more modern websites, rather than the 10 year old look and feel of the current website. We will jointly fine tune that look during our meetings.

I told David there may be some more questions; we are getting to the point of no return on getting this done for this season.

Answers to questions from WSSA board:

1. Does searching by 'abstract' ("Search the database by title, title number, author, abstract, year, and society. ") means search within the text of the abstract? **YES**
2. Adding a "keyword" search, assuming the new abstract system will still allow users to add keywords to their abstracts like the current system - **YES**
3. Do we need to be able to download slides/ make searchable – **Only download for meetings then delete on new system.**
4. **Currently do not provide a way to download slides other than for meetings**
5. Will the abstract database be expandable going back further than 2007 when/if older files become available in digital format? **What type of digital format? If they are referring to a PDF file, then the answer is no, because we're not able to parse that. If they are referring to a database or excel file, then the answer is yes, and there will be a cost at that time to write the software tool to import them into the abstracts database.**
6. What the current size limit is for uploaded presentation files? Just want to make sure than 200 MB really is an upgrade. – **Current limit is about 40MB**

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For the regional societies:

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To import abstracts from other years into the new WSSAAbstracts database, there will be an additional cost which will depend on the format of the source. A database or spreadsheet format will be easier to import than other file types; it will be difficult to parse files such as PDFs, Word docs, etc.

Strategic Planning Committee Report – 7/14/2019

Chair – Mark Heilman

We are at the halfway point of the 5-year plan approved in 2017. The following report and related discussion during the pre-conference Board of Directors meeting will review status of the four goals of the 2017-2021 Plan.

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

Action Steps:

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

Measures of Success:

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

STATUS: The basic action steps for this goal have been accomplished. However, it recommended that the financial management plan be re-assessed by the January 2020 Midwinter Board meeting to take actions necessary to fund the Michael D. Netherland APMS GSRG every year (versus every two years). As noted in the January meeting minutes, we remain several multiples short of a self-sustaining Scholastic account (now \$148,000 vs. \$400k-500k target).

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

Action Steps:

- *Form a five-member ad hoc committee charged with developing and overseeing implementation of the marketing plan.*

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

Measures of Success:

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

STATUS: Details are provided separately by goal committee chair Todd Olson. Items 1 – 3 have been accomplished and an external firm has provided some guidance but there is ongoing debate on target audiences and process to develop social media content, etc. One thought for Board discussion: The University of Florida Center for Aquatic Invasive Plants recently hired a communications lead that could be a focal point for process refinement, audience consideration, and content development/review/release.

Goal 3: Increase APMS membership and annual meeting participation.

Action Steps:

- *Connect with regional chapters to compare membership lists and identify potential new members at both the regional and national levels.*
- *Update the membership brochure to highlight APMS membership benefits for regional chapter members and members of related professional societies.*

- *Offer regional members a dues discount for membership in APMS.*
- *Plan for offering CEUs for workshops delivered at the conference or online.*
- *Continue presentations at regional meetings by the APMS president*
- *Encourage members of related societies (e.g., NALMS) to become active members of APMS.*
- *Establish one or more positions on standing committees or the board for representatives from the Women of Aquatics organization.*

Measures of Success:

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

STATUS: Actions completed:

- CEU offerings for the 2018 and now 2019 meetings. Joint meetings are more efficient on CEU front since regional leadership has processes in place.
- Continued APMS President (or surrogate) presentations at regional meetings
- Continued representation by WOA
- Encourage membership from related societies: Terry McNabb and Mark Heilman discussed with NALMS 2019 conference program committee the opportunity for enhanced interaction between NALMS and APMS at the upcoming NALMS conference to develop better coordination and technical consensus on HAB management. This led to submission and acceptance of a co-authored paper that Heilman will provide as APMS President entitled '*Improving Scientific Partnership and Integrated Strategies to Address the Global Challenge of Harmful Algae*' for the NALMS Burlington VT meeting in mid November. There have been past outreach efforts with NALMS (and AFS) with mixed results but better partnership between the two Societies continues to have long-term value, especially for optimal progress on HAB. The Northeast US has the best regional overlap between APM and wider lake management and is a good place to stimulate better collaboration. It is hoped that this also leads to more cross membership. Along with this presentation and related discussions and an APMS booth at NALMS, other ideas are invited from the Board. For discussion, would offering free 1-year membership to APMS to prospective NALMS members at the Burlington meeting be appropriate? Another idea is offering the concept to the NALMS Board of a joint meeting specifically on HAB management.

There remains work in the area of attracting greater regional chapter members into APMS and it is unclear whether any progress has been made on the metrics established back in 2017. Another organization to consider more interaction with is the new Society of Lake Management Professionals (SLMP). Feedback from Board members engaged with SLMP is welcome. A new membership brochure to provide at the NALMS meeting in November and upcoming cycle of regional APMS meetings would be of value (tie to new logo and other 'branding' discussions).

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

Action Steps:

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

Measures of Success:

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

STATUS: Not known for this report but hopefully the goal leadership team (Hartis, Thum, Sardes) can provide feedback by at least the post-conference Board meeting.

APMS board report (July 14, 2019), submitted by Todd J. Olson

APMS Strategic Plan

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

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

The committee met via teleconference on May 7, 2019 to start implementing some of the action items. Several challenges were discussed and the committee feels board discussion is warranted to guide the committee;

- Who will run the APMS social media site? The committee feels the process will eventually fail if it is dependent on a volunteer.
- How many hours will be allocated for a paid social media person?
- Is APMS trying to influence or inform?
- Who are we trying to reach?
- Will social media person distribute information or create content? How much time will be spent searching for appropriate content?

STUDENT AFFAIRS COMMITTEE REPORT

Date: 19 June 2019

Committee: Christopher Mudge, Chair
Samantha Sardes, Co-Chair
Mirella Ortiz, Student Director
Brett Bultemeier
Syndell Parks
Leif Willey
Ben Willis

Participants: We have 17 student presenters (13 oral presentations and 7 posters), 8 of which have never presented at an APMS meeting prior to the San Diego conference. Students are currently enrolled or graduated from 8 Universities including University of California-Davis, Clemson University, Colorado State University, University of Florida, Louisiana State University, Mississippi State University, Montana State University, and North Carolina State University.

Accommodations: Student rooms have been reserved by Bill Torres at the DoubleTree San Diego Mission Valley for Sunday through Wednesday evenings. Considerable time and effort went into assigning rooms so that rooms would be released as soon as possible based on arrival and departure dates. The confirmation numbers were emailed to the students.

Meet and Greet: On Sunday evening prior to the President's Reception, the students will gather for 1-hour to meet new attendees and reunite with old friends at the Wood Ranch BBQ.

Luncheon: During the student luncheon on Monday July 15, Dr. Kurt Getsinger (USAERDC), Dr. John Rodgers (Clemson University), and Mr. Bo Burns (SOLitude Lake Management) will be our guest speakers. These individuals will share their roles in the Society, job responsibilities, career opportunities, and other personal experiences.

Judges: The committee contacted numerous judging candidates to judge the oral and poster contests. Our student director, Mirella Ortiz, will coordinate with student participants to judge the non-student posters and exhibitor displays. Several students have already volunteered to judge these contests.

Tour: Due to limited active aquatic plant management sites in San Diego and southern California, we will not have a post-conference student tour this year. The student affairs committee will have more choices at the upcoming conferences in San Antonio and New Orleans.

**Women of Aquatics
APMS Board Book Report
July 2019**

Submitted by Amy Kay

Women of Aquatics Mission

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

Values

Celebrate & Inspire, Challenge the Status Quo, Promote Community

Areas of Focus

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

Goals & Progress

- **WOA Exhibiting and Events:** 2019: WOA created an exhibit booth this past winter and exhibited at MAPMS, Illinois Lakes Management Association, and Wisconsin Lakes Partnership, with plans to do so at APMS, FAPMS and TAPMS. A lunch event was held at NEAPMS, a sponsored happy hour membership drive in which all attendees of MAPMS were invited was well attended yielding 16 new members. A casual gathering was held at Wisconsin Lakes Partnership resulting in two new members and lots of great ideas.
- **Membership:** Launched at APMS 2018
 - \$50 annual professional membership, \$50 affiliate membership, \$25 annual student membership, \$25 annual student affiliate membership. Payments can be accepted via cash, check, credit card and PayPal.
 - Annual membership includes:
 - WOA meeting event at APMS, it's chapters and any other approved (by the board) WOA meetings that may take place on the local/state level (For example, Wisconsin Lakes Partnership); Specialized directory of contacts; Option to participate in a mentorship program; Invitation to the annual Women of Aquatics retreat; Women of Aquatics lapel pin for new members.
 - We have 44 members: 28 Professional, 9 Affiliate, 5 Student, 2 Student Affiliate
- **Sponsorship:** Annual Sponsorships are available: Ocean Level \$2,000 (current: Clean Lakes) Lake Level \$1,000 (current: SOLitude Lake Management) Stream Level \$500. Event Sponsorships also available, those sponsors have included: Aquatic Control, Aqua-Weed Control, Brandt, Clean Lakes, Inc., Clean Lakes Midwest, Inc., Crop Production Services (Nutrien Solutions), Cygnet Enterprises, Michigan Aquatic Managers Association, Naturalake Biosciences, SprayCo, Syngenta, The Aquatic Plant Management Society, The Northeast Aquatic Plant Management Society, The Texas Aquatic Plant Management Society, and Vertex Water Features.
- **Committees Established:** 10 Committees have been established (Career Advancement, Education & Outreach, Health & Wellness, Retreat Planning, Strategic Planning, Editorial, Finance, Membership, Publicity, and Sponsorship), all of which chaired by directors of the board. Each responsible for tasks and updates throughout the month to present to the BOD during the monthly conference call.
- **Slack:** WOA will look to expand the use of slack to communicate with the Membership as it relates to committee work and using the directory.
- **Website:** the website went live winter 2019 (www.womenofaquatics.org).

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

WSSA / New Business – WSSA Abstract Submission System
Rob Richardson
Jun 7, 2019, 9:35 AM

All,

I was trying to wait to bring this up until the annual meeting, but I now need fairly quick feedback. A couple of the regional societies have been unhappy with the Apex title/abstract submission platform and wanted something grander. (My stated position to the WSSA board was that APMS was happy with the current platform.) WSSA got 2 quotes for an upgraded system. One had fairly significant annual costs and the other from Apex has a significant one time fee, but no additional annual costs. WSSA did have the position that regionals could support or not support and WSSA would pick up the difference. SWSS is now demanding that all regionals support or they will not support. The catch is that the current platform will be shut down, so my interpretation of the SWSS demand is that APMS must support the upgrade or will lose access to the current platform.

The Apex proposal is in the attachment. The current WSSA motion (for email vote) is below, but SWSS is demanding APMS and CWSS support.

"Motion is for WSSA to approve the APEX proposal so they can get started on the work. If the vote is positive, then WSSA is guaranteeing that APEX will get paid \$30,000."

Supporting info on current motion: SWSS, NCWSS, WSWSS and NEWSS have all indicated support for the upgrade at a rate of up to \$2500 each. CWSS and APMS have not committed any resources for the upgrade. Regardless, if CWSS and APMS want to support the upgrade with some funding, then we would reduce the amount each of the other associated societies have committed by a proportional amount.

1. Go Live is Oct 1 if approved by June 15.
 - a. If the October 1 date is missed, then NCWSS (for example) will have to use the current system for this year's meeting. Same for any other group that wants to go live if the new system isn't ready for them. Once the new system is ready, then any groups that go live after that will use the new system.
 - b. They can have both the old and new systems online at the same time, if **needed**. Having both systems up and running at the same time will cause a lot more work for Apex, but that's their penalty for missing the Oct 1 date.
 - c. There is cost to have both old and new up and operating at the same time if a group is not ready or willing to make the switch and the system is live and ready.
2. Process and benchmarks:
 - a. The development process is an iterative approach. APEX will do some work, and then send a version to review and to give feedback; they take that feedback and work on the next iteration and then look at it again, and so forth. In September we will have the fully functional version available to try out and get familiar with. Then

- on October 1, the system will go online; at that point there should be no surprises. Everyone will have had time to use the system and get familiar with it.
- b. No milestones, the only milestone will be October 1. In an iterative (agile) development process, you will be very involved; we'll continually be making adjustments to the system throughout the process. 'Milestones' aren't used by most software developers these days; that was the old way of doing development where you (the customer) wouldn't see a version of the software until we reached a milestone. This was called the waterfall model. That's not the way we work in an iterative agile approach. (google search: Agile vs Waterfall software development).
 - c. As part of the iterative approach, I (David) plan to have an online screensharing meeting every 2 weeks with you, to discuss the project and get feedback.
3. Database Search Functionality:
Search the database by title, title number, author, abstract, year, and society. This will be similar to the current search capabilities for older abstracts on this webpage:
<http://wssa.net/meeting/meeting-abstracts/>
The search will be across all societies.
The previous abstracts for each society, from 2007 thru 2019, will be imported into the database for searching.
Abstracts will remain available for searching indefinitely.
The presentation slides file that is associated with each abstract will be available for download from the search page.
These files will remain available for retrieval indefinitely
Note: the slides file itself won't be searchable.
4. File Upload:
a. The maximum size of file upload will be approximately 200MB
b. No restrictions on type of file
c. Files will be available for download indefinitely
d. Note: as server storage is consumed, the server hosting fees will increase
5. Modern Look:
a. I (David) don't have screen shots or demos of what the new user interface will look like. But in general, we'll be using a look and feel that is found in more modern websites, rather than the 10 year old look and feel of the current website. We will jointly fine tune that look during our meetings.

I told David there may be some more questions; we are getting to the point of no return on getting this done for this season.

Answers to questions from WSSA board:

1. Does searching by 'abstract' ("Search the database by title, title number, author, abstract, year, and society. ") means search within the text of the abstract? **YES**
2. Adding a "keyword" search, assuming the new abstract system will still allow users to add keywords to their abstracts like the current system -**YES**

3. Do we need to be able to download slides/ make searchable – *Only download for meetings then delete on new system.*
4. Currently do not provide a way to download slides other than for meetings
5. Will the abstract database be expandable going back further than 2007 when/if older files become available in digital format? *What type of digital format? If they are referring to a PDF file, then the answer is no, because we're not able to parse that. If they are referring to a database or excel file, then the answer is yes, and there will be a cost at that time to write the software tool to import them into the abstracts database.*
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Suggestions / Requests sent by Jeff Schardt to APEX after the 2019 APMS Annual Meeting Program was completed to improve the function of the WSSA Abstract Submission System:

WSSA Abstract Submission System - Revision Requests from APMS

Title and Abstract Submittal

- All information must be filled in or Title will not submit.
- APMS needs Titles, Authors, Bios, and Abstracts to be submitted by the closing date of Abstract submittal to send for CEU review. I process information as soon as it is received so I don't have days of formatting at the submittal deadline date. See examples below for typical Titles and Author names and affiliations.
- Do not allow titles to be submitted now and Abstracts submitted at a later date. APMS receives several Titles each year without Abstracts. Sometimes they are finally entered near or on the last day. Sometimes the site is closed, and we have to request it to be reopened. In all cases this has required that I contact the author – sometimes several times to ensure the Abstract is submitted.
- It is not a good idea for authors to edit Titles or Abstracts after they are submitted. They may edit the content enough to influence the CEU evaluation. If editing is allowed it should be approved first by the APMS Program Director.

Title

- Make it impossible to type in all caps. We still get some of these.

Presenter Bio

- Can you put in a function that requires more than ~50 words and less than ~250 words? The Bios and Abstracts must be reviewed by an authority to determine CEUs. APMS received many Bios this year that simply state that the author works at a particular place. Maybe a red flag if only 15-20 words are submitted that says "Please elaborate so Bio can be reviewed for CEUs"?

Abstract

- Can you limit the Abstract to 300 words? We have received Abstracts of 500-750 words. These take up too much space in the printed Program and contain too much information for an Abstract. As requested above, make it impossible to submit a Title without the Abstract.

Edit User Profile

- Make all fields required. No optional fields.
- Currently, Affiliation and Phone Number fields are not required. APMS publishes all Authors and Affiliations in the Program after the Title and before the Abstract. I spend a substantial amount of time tracking down author affiliations.
- Make dashes automatically populate between area code, exchange, and number.
- Can I have administrative rights to delete duplicate Author names? We get often get two or more profiles for an Author when that Author appears in more than one Presentation. Different lead Authors may submit different name spellings, abbreviations, phone numbers, affiliations

etc. This is probably where I spend most of my time – trying to get consistency among several presentations that include the same Author for: Author names, spelling (e.g. Rob vs Robert) missing middle initials, different affiliations, abbreviated affiliations, acronyms in one but not another, etc. Once I get the correct information for a “multiple author” I could delete repetitive profiles for the same person that do not contain the correct or complete information.

- Any suggestions that you may have to get people to fill out complete information in the **Edit User Profile** section would be welcomed. Instructions and notes on the Profile form don’t always seem to get through to the person filling the form.

Examples of simple and complex presentation information in the Poster Session of the Program:

Establishment of Aquatic Macrophytes in Mission District of the San Antonio River

Jeffrey T. Hutchinson

University of Texas at San Antonio, Department of Environmental Science and Ecology, San Antonio, TX

An Update on the Development of Hydrilla Biological Control in the U.S.

Nathan E. Harms¹, Dean Williams², Matthew Purcell³, Al Cofrancesco⁴, Jialiang Zhang⁵, Hong Sun-Hee⁶, and Graham McCulloch⁷

¹*U.S. Army Engineer Research and Development Center, Aquatic Ecology and Invasive Species Branch, Vicksburg, MS*

²*Texas Christian University, Department of Biology, Fort Worth, TX*

³*Commonwealth Scientific and Industrial Research Organisation, Brisbane, Australia*

⁴*U.S. Army Engineer Research and Development Center, Vicksburg, MS*

⁵*Wuhan Botanical Institute, Invasion Biology and Biocontrol Lab, Wuhan, Peoples Republic*

⁶*HanKyoung National University, Anseong, South Korea*

⁷*The University of Queensland, School of Biological Sciences, Saint Lucia, Australia*

Examples of complex and simple presentation information in the Oral Sessions of the Program:

1:00 pm **An Overview of the Delta Region Areawide Aquatic Weed Project for Improved Control of Invasive Aquatic Weeds in the Sacramento-San Joaquin Delta**

Patrick J. Moran¹, Louise Conrad², Thomas Jabusch³, John D. Madsen⁴, and Paul Pratt¹

¹*U.S. Department of Agriculture-Agricultural Research Service, Invasive Species and Pollinator Health Research Unit, Albany, CA*

²*Delta Stewardship Council, Sacramento, CA*

³*Sacramento-San Joaquin Delta Conservancy, West Sacramento, CA*

⁴*U.S. Department of Agriculture-Agricultural Research Service, Invasive Species and Pollinator Health Research Unit, Davis, CA*

9:40 am **Learning to Control Hybrid Milfoils in the Pacific Northwest**

Terry M. McNabb

Aquatechnex, LLC, Bellingham, WA

SCIENCE POLICY REPORT
Lee Van Wychen
APMS Annual Meeting- San Diego, CA
July 14-17, 2019

- A. **Congress Still Needs 2-Yr Budget Deal:** For the past several months, Congressional and White House leadership have met to try and hammer out a budget deal that would raise the FY 2020 and 2021 discretionary spending caps set by current law, otherwise known as “sequestration”. Without a budget deal, defense spending would be cut by \$71 billion and nondefense spending – which includes most research funding programs – would be cut by \$55 billion in FY 2020 alone. While the House has decided to move forward with its spending bills, the Senate has so far opted to wait as budget deal negotiations play out and, as such, has yet to even begin writing its FY 2020 appropriations bills. With a Sept. 30 deadline fast approaching, there is increasing talk of a year-long continuing resolution (CR) that would hold funding steady at the FY 2019 levels.
- B. **House Approves Nine FY 2020 Appropriations Bills:** In June, the House has passed nine of their 12 appropriations bills. The Senate has yet to unveil any of their FY 2020 spending bills. As usual, the House did not include any appropriations for the Aquatic Plant Control Research Program administered by the Corp, but we anticipate funding from the Senate. All other programs listed below either increased or stayed level compared to FY 2019.

Selected Discretionary Appropriations Accounts

Program	2016 Final	2017 Final	2018 Final	2019 Final	FY 2020 House
	----- Millions of Dollars -----				
Army Corp of Engineers - Civil					
Aquatic Plant Control Research Program	4	4	5	5	0
Flowering Rush Control	n/a	n/a	1	1	0
Watercraft Inspection Stations	4	5	5	6	20
Great Lakes Restoration Initiative (EPA)	300	300	300	300	320
National Sea Grant Program (NOAA)	64	63	65	68	73
USDA- ARS	1143	1170	1203	1303	1347
USDA- NIFA	1326	1363	1412	1471	1614
Hatch Act (Experiment Stations)	244	244	244	259	265
Smith-Lever 3(b) & (c) (Extension)	300	300	300	315	325
AFRI competitive grants	350	375	400	415	460
IR-4 Minor Crops	11.9	11.9	11.9	11.9	12.0
Crop Protection & Pest Mang't (IPM)	17.2	20	20	20	20

- C. **EPA Seeks Comments on Glyphosate Proposed Interim Registration Review Decision (PID):** In the ongoing registration review of glyphosate, EPA issued a PID in May so that it can move forward with aspects of the registration review case that are complete and implement interim risk mitigation. In 2017, EPA published comprehensive ecological and human health risk assessments for glyphosate. No human health risks were identified. The agency determined that glyphosate is not carcinogenic to humans. Potential ecological risks were identified for terrestrial and aquatic plants, birds, and mammals, primarily from exposure to spray drift.

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

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

The PID and associated documents are posted at <https://www.regulations.gov/document?D=EPA-HQ-OPP-2009-0361-2340> . Comments are due **Sept. 3, 2019**.

Proposed Statements for Glyphosate for Aquatic Use

Product Type	Proposed Statement
Environmental hazards: for labels with terrestrial uses only	"Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters and rinsate."
Environmental hazards: for labels with aquatic uses only	"Killing aquatic weeds can result in depletion or loss of oxygen in the water due to decomposition of dead plant material. This oxygen loss can cause fish suffocation. Consult with your State agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is required. Do not contaminate water when cleaning equipment or disposing of equipment wash waters and rinsate."
Environmental hazards: for labels with both aquatic and terrestrial uses	"Killing aquatic weeds can result in depletion or loss of oxygen in the water due to decomposition of dead plant material. This oxygen loss can cause fish suffocation. Consult with your State agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is required. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark (<i>Optional text, if applicable:</i> except when applying this product by air over the forest canopy). Do not contaminate water when cleaning equipment or disposing of equipment wash waters and rinsate."
Directions for use for aquatic uses	"When emerged weed infestations cover the total surface area of an impounded waterbody, apply this product to the emerged vegetation in strips to help avoid oxygen depletion in the water due to decaying vegetation. Oxygen depletion in the water can result in increased fish mortality."

- D. **PLEASE REVIEW the Weed Bingo Trivia for the Following Aquatic Weeds:** The 7 aquatic/riparian weeds listed below are a subset of the 42 weeds that will be used as playing pieces in a Weed Bingo game that will be manufactured later this summer by WSSA. Each playing piece will have a photo of the weed on the front and a 40-60 word description or trivia of the weed on the back. Please review for accuracy and send me any changes. Thanks!

1) Brazilian peppertree: A sprawling shrub or small tree in the Cashew family related to poison ivy and poison sumac. Native to the subtropics in South America, it was introduced in Florida in the 1800's as an ornamental. Its bright red berries and brilliant green foliage were used as Christmas décor, but it has now taken over thousands of acres of pinelands and mangrove forests.

2) Curlyleaf pondweed: This perennial aquatic invader prefers cooler, nutrient rich, alkaline waters, but is found throughout the US and southern Canada. Its "curly leaf" undulates like a lasagna noodle. Overwintering at the bottom of lakes and ponds, it's usually one of the first plants to start elongating in the early spring from depths of up to 15 feet.

3) Eurasian watermilfoil: One of the most widespread invasive aquatic weeds in North America, it forms dense mats on the water surface that can block out sunlight. It grows primarily from broken off stems, known as shoot fragments, so you should "clean, drain, dry" your boat when leaving an infested lake.

4) Harmful algal blooms: Scientists say there is no single cause of algal blooms, which can occur in all 50 states. Often a complex mix of factors is involved, such as: warm water temperatures; stable or stagnant water; intermittent periods of intense light; phosphorus, nitrogen and other nutrients from a variety of sources; and low water turbidity.

5) Hydrilla is named after Hydra the 9-headed serpent of Greek mythology because it can grow an entirely new plant from a tiny stem fragment. Listed as a federal noxious weed, this submerged, perennial aquatic invader is found in just about every conceivable freshwater habitat and is often referred to as the world's worst invasive aquatic plant.

6) Melaleuca is a tree that grows quickly, typically 3-6 feet per year, in disturbed marshes and swamps and is native to Australia. It was introduced as an ornamental in many parts of the tropics and has become invasive. In the Florida Everglades, melaleuca trees form nearly monospecific stands that rapidly displace native cypress and sawgrass marshes.

7) Waterhyacinth is a free-floating invasive perennial weed native to the Amazon basin. One of the fastest growing plants known, it became such an overwhelming problem in Florida and Louisiana waterways in the early 1900's that Congress considered importing hippos from Africa to eat it. The hippo bill fell one vote short.

- E. **Public Lands and Water Management Bill Becomes Law:** This spring, the "John D. Dingell, Jr. Conservation, Management, and Recreation Act of 2019" became law (P.L. 116-9). It's the first major public lands and water management bill passed since 2009 and contains over 100 pieces of legislation that are laid out in 9 titles. In Title VII, "Wildlife Habitat and Conservation", the new law amends the Fish and Wildlife Coordination Act to **protect federal "water, oceans, coasts, and wildlife from invasive species"**. The new law defines a number of terms, including "invasive species" and directs the head of each federal Agency (specifically Army Corp of Engineers, Agriculture and Interior) to plan and carry out activities on land directly managed by the Agency to protect water and wildlife by controlling and managing invasive species: (1) to inhibit or reduce the populations of invasive species; and (2) to effectuate restoration or reclamation efforts.

While the new law does not authorize any additional appropriations, it directs the Agency heads to allocate their existing invasive species funding in the following manner:

- **use not less than 75 percent for on-the-ground control and management of invasive species**, which may include: (1) the purchase of necessary products, equipment, or services to conduct that control and management; (2) the use of integrated pest management options, including options that use pesticides; (3) the use of biological control agents; (4) the use of revegetation or cultural restoration methods; (5) the use of monitoring and detection activities for invasive species, including equipment, detection dogs, and mechanical devices; (6) the use of appropriate methods to remove invasive species from a vehicle or vessel capable of conveyance; or (7) the use of other effective mechanical or manual control methods.
- **use not more than 15 percent for investigations, development activities, and outreach and public awareness** efforts to address invasive species control and management needs.
- **not more than 10 percent may be used for administrative costs** incurred to carry out those programs, including costs relating to oversight and management of the programs, recordkeeping, and implementation of a strategic plan

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

- G. **Capitol Hill Seminar on Weed Gene Drives:** On June 10, Dr. Patrick Tranel presented a seminar on Capitol Hill titled "Gene Drives to Combat our Worst Weeds". The seminar was part of the National Coalition for Food & Agricultural Research (NCFAR) Lunch-n-Learn Seminar Series. Dr. Tranel has been a weed scientist at the University of Illinois in Urbana-Champaign since 1997. He has been at the forefront of using molecular and genomic tools to study weeds, and his research findings have informed how weeds evolve resistance to herbicides and strategies that can be used to mitigate that process. The advent of gene editing tools, such as CRISPR-Cas9, makes

such genetic strategies more feasible. Gene drives can be used in weed management approaches to reduce seed dormancy or reverse herbicide resistance in weeds. For genetic control of weeds to become a reality, significant basic research is needed as well as efforts in training future scientists.

- H. **Kansas City Announced as New Home for USDA NIFA & ERS:** On June 13, USDA Secretary Sonny Perdue announced that USDA will relocate the Economic Research Service (ERS) and National Institute of Food and Agriculture (NIFA) to the Kansas City Region. USDA conducted a Cost Benefit Analysis and conservative estimates show a savings of nearly \$300 million nominally over a 15-year lease term on employment costs and rent or about \$20 million per year. In addition, state and local governments offered relocation incentives packages totaling more than \$26 million.

While 90% of USDA employees are located outside of the D.C. area, ERS and NIFA are the only USDA agencies that don't have representation outside of the national Capital Region (NCR). Upon the relocation announcement, USDA proposed that sufficient staff levels would remain in the NCR to complete mission critical activities that require physical presence in or near Washington, D.C. at the recommendation of customers and stakeholders. Out of NIFA's 315 positions, 294 will relocate while 21 will stay in the NCR. Of the 329 ERS positions, 253 will relocate while 76 will stay in the Washington, D.C. area. Every employee who wants to continue working will have an opportunity to do so. Employees will be offered relocation assistance and will receive the same base pay as before, and the locality pay for the new location.

- I. **2019 Weed Survey:** <https://www.surveymonkey.com/r/2019weeds>. Please take a moment to list your top 5 most common and troublesome weeds in the following broadleaf crops, fruits, and vegetables: 1) Alfalfa, 2) Canola, 3) Cotton, 4) Fruits & Nuts, 5) Peanuts, 6) Pulses- field pea, chickpea, lentil, etc., 7) Soybean, 8) Sugarbeet, 9) Vegetables- Cole crops, 10) Vegetables- Cucurbits, 11) Vegetables- Fruiting, 12) Vegetables- Other.

Evaluation of Management Options for Nitellopsis obtusa (Desvaux in Loiseleur) J. Groves, (1919) (Starry Stonewort) in the United States:

2019 Progress Report

John H. Rodgers, Jr. and Tyler Geer
Department of Forestry and Environmental Conservation,
Clemson University, 261 Lehotsky Hall,
Clemson, SC 29634-0001, USA

Project Summary

The goal of this research is to identify the best approaches for management of non-indigenous *Nitellopsis obtusa* (Starry Stonewort) across its current range in the US in an environmentally responsible manner. To accomplish this, the research is organized as three principal tasks: 1) a risk assessment that assembles relevant information and identifies data gaps pertaining to management of *N. obtusa* in the US; 2) thorough evaluation of approaches to manage *N. obtusa* in lakes across the currently infested area; and 3) evaluation of decontamination to prevent off-site movement of Starry Stonewort as well as reintroduction into currently infested lakes. This report presents an overview of our progress in 2019 and our plan for completion of this research, i.e. publication of the research in peer-reviewed journals. A table summarizing the plan for publication of this research is included at the conclusion of this progress report.

Task 1

The scientific risk assessment for management of *N. obtusa* includes the risk of this invasive species in terms of potential distribution, as well as invasiveness and adverse effects due to its growth and spread. We have mined existing data for information needed for successful prevention of inter-lake movement and in-lake mitigation of populations, and are defining gaps and augmenting those data as necessary. We have conducted a preliminary genetic analysis of *N. obtusa* in multiple water resources across 5 different states (MN, WI, IN, MI, and NY), to answer residual questions regarding the genetic relatedness of *N. obtusa* populations. The risk assessment is underway and will be submitted for publication in *Biological Invasions* (Springer) in September 2019.

Task 2

To evaluate approaches to manage Starry Stonewort in lakes across the currently infested area, we are vetting chemical, mechanical, physical and strategic combinations (integrated) of tactics for in-lake control of *N. obtusa* populations, conducting screening-level laboratory and field studies to rank management tactics, and we are focusing definitive field studies on the most effective tactics to obtain confirmatory data during this year (2019). We recently completed a study evaluating the effectiveness of algaecide treatments for control of starry stonewort in an incipiently infested lake, and submitted the manuscript for publication in *Invasive Plant Science and Management* (WSSA). In addition, this information was presented at several conferences in 2018 (see below). For evaluation of control tactics for lakes with a longer history and more extensive, mature populations of

N. obtusa, we conducted studies in Lake Koronis, MN, Lake Tippecanoe, IN, and Lobdell Lake, for evaluation of algaecide treatments. We also collected data regarding the effectiveness of mechanical harvesting from the Huron chain of lakes, MI and Keuka Lake. These data will be in a publication that will be submitted to the *Journal of Aquatic Plant Management* in September 2019.

Task 3

To evaluate decontamination efforts to limit the spread of *N. obtusa*, we are screening decontamination procedures, including pressure washing, steam spraying and application of algaecides or biocides to boats (bilges) and trailers that could be employed as a layer of protection to prevent dispersal. We have conducted laboratory experiments evaluating the viability of *N. obtusa* fragments and bulbils to desiccation and application of hot water, and are progressing with evaluations of chemical decontamination tactics this spring. Those data will be a part of the publication *Effects of Thermal and Chemical Exposures Alone and in Sequence on the Viability of Propagules of Nitellopsis obtusa*, which will be submitted to *Applied Ecology* in September 2019.

Publications Submitted and Planned for Submission

Task	Publication	Journal	Date Submitted / Planned Submission Date
1	Risk Assessment for Management of <i>Nitellopsis obtusa</i> in Water Resources of the U.S.	<i>Biological Invasions</i>	September 2019
2	Response to Early Detection of <i>Nitellopsis obtusa</i> (Starry Stonewort) in Lake Sylvia, Minnesota, Using a Copper-Based Algaecide	<i>Invasive Plant Science and Management</i>	May 2019
2	Effectiveness of Algaecides for Management of <i>Nitellopsis Obtusa</i> in Water Resources of the U.S.	<i>Journal of Aquatic Plant Management</i>	September 2019
3	Effects of Thermal and Chemical Exposures Alone and in Sequence on the Viability of Propagules of <i>Nitellopsis obtusa</i>	<i>Applied Ecology</i>	September 2019

Presentations

Geer T.D., Rodgers Jr. J.H., McComas S. January 9, 2019. Ongoing Management of an Incipient *Nitellopsis obtusa* (Starry Stonewort) Infestation in Lake Sylvia, Minnesota, Using a Copper-Based Algaecide. Platform presentation at the 39th Annual Meeting of the Midwest Aquatic Plant Management Society, Chicago, IL.

Geer T.D., Rodgers Jr. J.H., McComas S. January 9, 2019. Ongoing Management of an Incipient *Nitellopsis obtusa* (Starry Stonewort) Infestation in Lake Sylvia, Minnesota, Using a Copper-Based Algaecide. Platform presentation at the 20th Annual Meeting of the Northeast Aquatic Plant Management Society, Albany, NY.

Geer T.D., Rodgers Jr. J.H., McComas S. November 6, 2018. Management of *Nitellopsis obtusa* (Starry Stonewort) in a Recently Infested Minnesota Lake Using a Copper-Based Algaecide. Poster presentation at the 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Sacramento, CA.

Geer T.D., Rodgers Jr. J.H., McComas S. October 4, 2018. Management of *Nitellopsis obtusa* (Starry Stonewort) in a Recently Infested Minnesota Lake Using a Copper-Based Algaecide. Platform presentation at the 40th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC.

Geer T.D., Rodgers Jr. J.H., McComas S. July 17, 2018. Management of *Nitellopsis obtusa* (Starry Stonewort) in a Recently Infested Minnesota Lake Using a Copper-Based Algaecide. Platform presentation at the 58th Annual Meeting of the Aquatic Plant Management Society, Buffalo, NY.

Geer T.D., Rodgers Jr. J.H., McComas S. February 28, 2018. Management of *Nitellopsis obtusa* (Starry Stonewort) in a Recently Infested Minnesota Lake Using a Copper-Based Algaecide. Platform presentation at the 38th Annual Meeting of the Midwest Aquatic Plant Management Society, Cleveland, OH.

Geer T.D., Rodgers Jr. J.H., McComas S. January 11, 2018. Management of *Nitellopsis obtusa* (Starry Stonewort) in a Recently Infested Minnesota Lake Using a Copper-Based Algaecide. Platform presentation at the 19th Annual Meeting of the Northeast Aquatic Plant Management Society, New Castle, NH.