62 Years

Aquatic Plant News

The Newsletter of the Aquatic Plant Management Society, Inc.
September, 2022 – Issue 130

Spatterdock (Nuphar advena) is a beautiful lily in its native range – eastern North America – but can be problematic in western states where it is invasive.
Photo: Amy L. Giannotti, AquaSTEM Consulting

CONTENTS:

- APMS President's Update
- 2022 APMS Annual Business Meeting Summary
- 2022 APMS Awards
- 2022 APMS Meeting Sponsors
- 2023 APMS Annual Meeting
- Calendar of Events
- Journal of Aquatic Plant Management Update
- Regional Chapter Updates
- JASM 2022 Update
- Social Media Update
- Science Policy Update
- Sustaining Members
- General Membership Info

Aquatic Plant Management Society, Inc.
100 Winterberry Lane | Holly Springs, NC 27540

Newsletter Editor, Amy Giannotti

APMS President's Update

Dear APMS members,

I hope this newsletter finds each of you well and rejuvenated following our 62nd Annual meeting in Greenville, SC. Our joint meeting with the South Carolina Aquatic Plant Management provided the perfect opportunity to reconnect, revitalize, and refocus our efforts as a society and discipline. I hope that each of you found opportunities to meet new friends while also reconnecting with colleagues after the last several years of travel restrictions, virtual meetings, and remaining largely disconnected from each other. Unfortunately, Greenville also taught us that those uncertainties might not quite yet be over. We express our deepest sympathy to those in attendance who became ill following the meeting and hope you all had a speedy recovery. This can only serve as a reminder of how precious and important our time together truly is.

With that said, we thank you for coming together in Greenville for a meeting that shall not be forgotten for years to come. Despite a typical southern pop-up thunderstorm, we had record attendance for the President's Reception on the rooftop at Ink-N-Ivy on Monday night. The venue was the perfect place to converse and catch-up with our colleagues. Our students also spent time getting to know one another during the Student Meet and Greet. Speaking of students, we had a tremendous showing from across the Country with our student members accounting for 15 oral presentations and more than half of our poster presentations! Thank you to all our students for your willingness to share your work. On Tuesday, we held a special session on harmful algal blooms (HABs) which featured many working from the cutting edge of HAB science and management. Dr. Joann Burkholder of NC State University did a tremendous job in showcasing the outlook and future management needs, which will largely be tackled by many in our membership. Our Tuesday afternoon session featured many of our student presenters who showcased their research. We capped things off Tuesday evening with the ever-popular Duck Race benefitting the SCAPMS student scholarship. We had standing room only around the hotel's lobby as onlookers watched several hundred ducks come down the tiered waterfalls. I would say we may be the first to hold a duck race in a hotel water feature, but we likely wont be the last! Wednesday featured a full day of scientific and technical sessions to a packed room of participants. Wednesday night our membership was treated to a delicious plated dinner at the annual awards banquet. As always, laughs were had, some tears were shed, as we relished the opportunity to recognize those who have made great contributions to our Society. We wrapped things up on Thursday with a half-day of talks featuring everything from biocontrol to aquatic plant management education and everything in between. Thank you to all who participated in delivering such wonderful presentations.

As many of you may or may not know, the annual conference is the product of many people's hard work and dedication. A huge thank you goes out to Bill Torres for his hard work in making sure that things go smoothly, and when they don't, none of us ever know about it! I want to thank all our board members, committee chairs and members, special representatives, and our student director for their various roles in making this all come together. I'd like to thank Amy Giannotti (and her husband) for their service making sure our participants were registered and aware of meeting activities. I would also like to thank the South Carolina Aquatic Plant Management Society for jointly hosting the meeting and keeping pressure on our members (although often via their persistent children) to support the scholastic endowment fund. Finally, none of this would have been possible without our sponsors. Thank you so much for your many contributions to the society, including support of our annual meeting.

Lastly, I would like to welcome our new incoming directors, Troy Goldsby and Gray Turnage, whom I have no doubts will do a tremendous job in serving our members. To our outgoing directors, and the many others who have served our board and committees over the last few years, we thank you so much for your service. Our members have greatly benefited from your commitment to the Society. I for one am excited for what the next year holds for our membership and continued growth as a society.

In parting, I am incredibly excited and humbled by the opportunity to serve as your President. Our Society, although small in comparison to many, has an incredibly large impact on the management of our Nation's precious water resources. We are blessed with many dedicated members who care deeply about our discipline, its standing, and contributions to the fast-changing environment in which we work. It is our small size that helps create a familiar, welcoming environment to members. We care for each other, from the most junior to the most experiences, and foster opportunities for the betterment and advancement of their careers in industry, academia and beyond. Please don't forget how important that is! When we lose site of this, we lose site of who we are as a society. I ask you to reflect on those values and ask yourselves if you are doing all you can to be a welcoming member of our Society. Have you considered being a mentor to someone new? Are you showcasing your best level of professionalism that shines a positive light on what it is to be an APMS member? Speaking on behalf of the Board, we welcome your input and willingness to serve our community and as always, please reach out with any questions, comments, or concerns you may have along the way.

All the very best,
Brett Hartis

2022 APMS Annual Business Meeting
Summary

The Annual Business Meeting was held on July 19, 2022, during the 62nd Annual Meeting of the Aquatic Plant Management Society in Greenville, SC. Several items were presented to the membership for vote, and a summary of the meeting is provided here:

The Board of Directors recommended the consolidation and elimination of several Committees to streamline Society function and efficiency.

The following Committees were consolidated and combined:
- Website Committee with Education/Outreach Committee
- Scholastic Endowment Committee with Finance Committee

The following Committees were eliminated:
- Legislative Committee
- Publications Committee

Annual Membership Dues will be increasing by 20% beginning in 2023-24.

The following slate of candidates were presented to the Board for voting by the Membership, and these officers were supported by a majority vote for the following positions:

- Vice President – Jeremy Slade
- Secretary – Amy Giannotti
- Treasurer – Justin Nawrocki
- Director – Troy Goldsby
- Director – Gray Turnage

Treasurer Justin Nawrocki informed the members that finances are better this year than last and reported the following account balances from the Board Book (as of July 4, 2022).

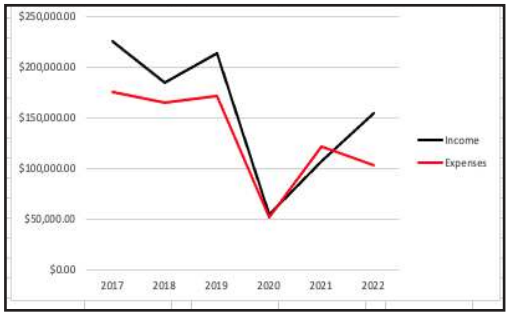
Current Account Balances

- Checking: $107,234.58
- Scholastic Endowment Checking: $15,074.28
- Scholarship: $172,590.10
- Reserve: $234,169.80

Treasurer Nawrocki reminded folks that the Annual Meeting is by far the largest revenue generator for the Society, and with a cancelled meeting and reduced attendance due to Covid, it has been challenging to maintain account balances and predict future trends. However, the 2022 Meeting showed promising results in attendance (~165 people), and increases in Membership Dues and Meeting Registration fees should help adjust for inflation and rising costs of meeting logistics, etc. going forward.

Nawrocki provided a summary of the progress in converting APMS from 501c5 to 501c3 which will make donations tax deductible. $1,500 has been invested thus far, and once Articles and remaining paperwork are filed, then additional information will be shared regarding next steps.

Nawrocki also thanked the donors and Board members who have worked hard on the raffle ticket sales and in securing prizes.



Item	Income	Expense	Income	Expense	Income	Expense	Income	Expense	Income	Expense	Income	Expense
Annual Meeting	$128,345.00	$88,362.60	$101,898.00	$85,615.44	$110,089.00	$93,888.73	$0.00	$750.00	$82,680.38	$57,830.47	$124,941.00	$65,446.30
Journal	$28,665.15	$6,099.42	$21,195.00	$6,415.44	$17,194.40	$6,324.74	$11,080.00	$6,022.45	$5,724.78	$3,000.00	$14,711.22	$9,314.83
-Allen Press		$14,390.11		$27,083.79		$13,513.76		$16,987.77		$13,044.30		
Membership	$23,735.00		$22,795.00		$37,095.00		$18,657.00		$18,620.00		$22,417.00	
Scholastic Endowment	$44,509.00	$40,309.72	$38,643.00	$50,000.00	$44,768.20	$54,600.00	$13,300.00	$20,000.00		$20,000.00	$12,915.00	$24,498.12
Website		$3,300.00		$3,600.00		$5,600.00		$4,149.00		$10,413.00		$4,734.00
Refunds										$2,775.00		$4,971.46
Credit Card Processing		$5,952.11		$4,691.24		$6,369.32	$1,563.75			$3,658.00		$3,437.86
Society Sponsorship		$8,278.00		$8,511.36		$9,575.00	$8,640.00			$10,853.55		
Education/Outreach		$17,517.80		$5,000.00		$3,000.00						
BASS Grant							$1,500.00			$3,000.00		
Insurance		$1,729.32		$1,765.00		$1,834.32		$1,851.32		$862.00		$1,032.00
Secretary Stipend		$10,000.00		$10,000.00		$10,000.00		$15,000.00		$10,000.00		$5,000.00
APMS Social Media						$1,000.00		$2,000.00		$2,000.00		$1,000.00
Tax Prep/Audit		$8,000.00		$6,000.00		$6,675.00		$1,500.00		$3,050.00		$1,823.56
MISC.		$809.85		$879.73	$4,940.01	$530.91	$86.46	$1,275.30		$1,677.12		$856.93
Board Travel/Booth Staff		$1,607.02		$1,905.56		$3,780.97						$354.43
Board Meeting		$8,868.69		$4,285.86		$5,008.07		$1,636.96				
Totals	$225,254.15	$215,224.64	$184,531.00	$215,753.42	$214,086.61	$221,700.82	$54,827.21	$71,172.80	$107,025.16	$142,163.44	$174,984.22	$122,469.49
Totals - Scholarship Payout	$225,254.15	$175,224.64	$184,531.00	$165,753.42	$214,086.61	$171,700.82	$54,827.21	$51,172.80	$107,025.16	$122,163.44	$154,984.22	$102,469.49

2022 APMS Awards

Honorary Members – William Culpepper and Joe Bondra
Awarded to persons who have been voting members of the Society for no less than ten years, have contributed significantly to the field of aquatic vegetation management, and have actively promoted the Society and its affairs during their membership.

President's Award – Ryan Wersal
The President's Award is presented to an individual, designated by the current President, who has displayed "Many Years of Dedication and Contributions to the Society and the Field of Aquatic Plant Management.

Max McCowen Friendship Award – Dean Jones
The Max McCowen Friendship Award is presented in honor of long-time Member Max McCowen. This award is a special recognition given to an APMS member whose demeanor and actions display sincerity and friendship in the spirit of being an ambassador for the APMS. Criteria include warmth and outgoing friendship, sincerity and genuine concern, gracious hospitality, positive attitude and smile.

T. Wayne Miller Distinguished Service Award – Mark Heilman
This award is presented in honor of founding Member and first and only two-term President of APMS, T. Wayne Miller. The award is presented to an individual to recognize "Service to the Society and the Profession." Considerations include completion of a relatively short-term project taking considerable effort resulting in advancement of aquatic plant management; performance beyond the call of duty as an APMS officer, chair, or representative; or non-member achievement leading to the advancement of APMS goals and objectives.

Outstanding Research/Technical Contributor – Stephen Enloe
An individual or group recognized for completion of a research project or technical contribution related to aquatic plant management that constitutes a significant advancement to the field.

Outstanding Graduate Student Award – Jens Beets
A student recognized for outstanding achievement during graduate studies in the field of aquatic plant management.

Outstanding International Contribution Award – not awarded this year
An individual or group recognized for completion of research or outreach activities that are international in nature.

Outstanding Journal of Aquatic Plant Management Article – John Madsen & Kurt Getsinger
An award voted by the Editor and Associate Editors for research

Welcome to the 2022-2023 APMS Board of Directors:

- President – Dr. Brett Hartis
- President Elect – Dr. Jason Ferrell
- Vice President – Mr. Jeremy Slade
- Immediate Past-President – Dr. Ryan Thum
- Treasurer – Dr. Justin Nawrocki
- Secretary – Ms. Amy Giannotti
- Editor – Dr. Ramon Leon
- Directors – Mr. Michael Greer, Dr. Erika Haug, Dr. Toni Pennington, Mr. Matt Johnson, Mr. Troy Goldsby, and Dr. Gray Turnage
- Student Director – Maxwell Gebhart

1st Place Student Oral Presentations – Samantha Prinsloo

1st Place Student Poster Presentation – Taylor Darnell

2022-23 APMS Board of Directors

Student Presenters

Student Competition Winners

2022 APMS Awards

Honorary Member - Bill Culpepper

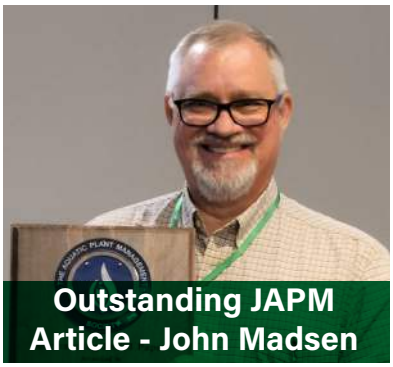
Presidential Award - Ryan Wersal

Max McCowen Friendship Award - Dean Jones

TW Miller Award - Mark Heilman

Outstanding Research & Technical Contributor Award - Stephen Enloe

Outstanding Graduate Student Award - Jens Beets



Outstanding JAPM Article - John Madsen

Passing of the Gavel from Pres. Thum to Pres. Hartis

Taylor Darnell

Samantha Prinsloo

2022 APMS Meeting Sponsors

The Aquatic Plant Management Society appreciates the generous support of the following meeting sponsors who made APMS 2022 a successful and enjoyable meeting.

Platinum Level

UPL NA Inc.
King of Prussia, PA

Gold Level

Alligare, LLC
Opelika, AL

Syngenta, US
Greensboro, NC

SePRO
Carmel, IN

Bronze Level

Brewer International
Vero Beach, FL

Nufarm Americas
Alsip, IL

Nutrien Solutions
Loveland, CO

Brandt
Springfield, IL

Winfield United
Arden Hills, MN

Outdoor Water Solutions
Springdale, AR

RISE
Arlington, VA

AquaServices, Inc
Guntersville, AL

Orion Solutions
Rocky Mount, VA

Contributor Level

Aquatic Control
Seymour, IN

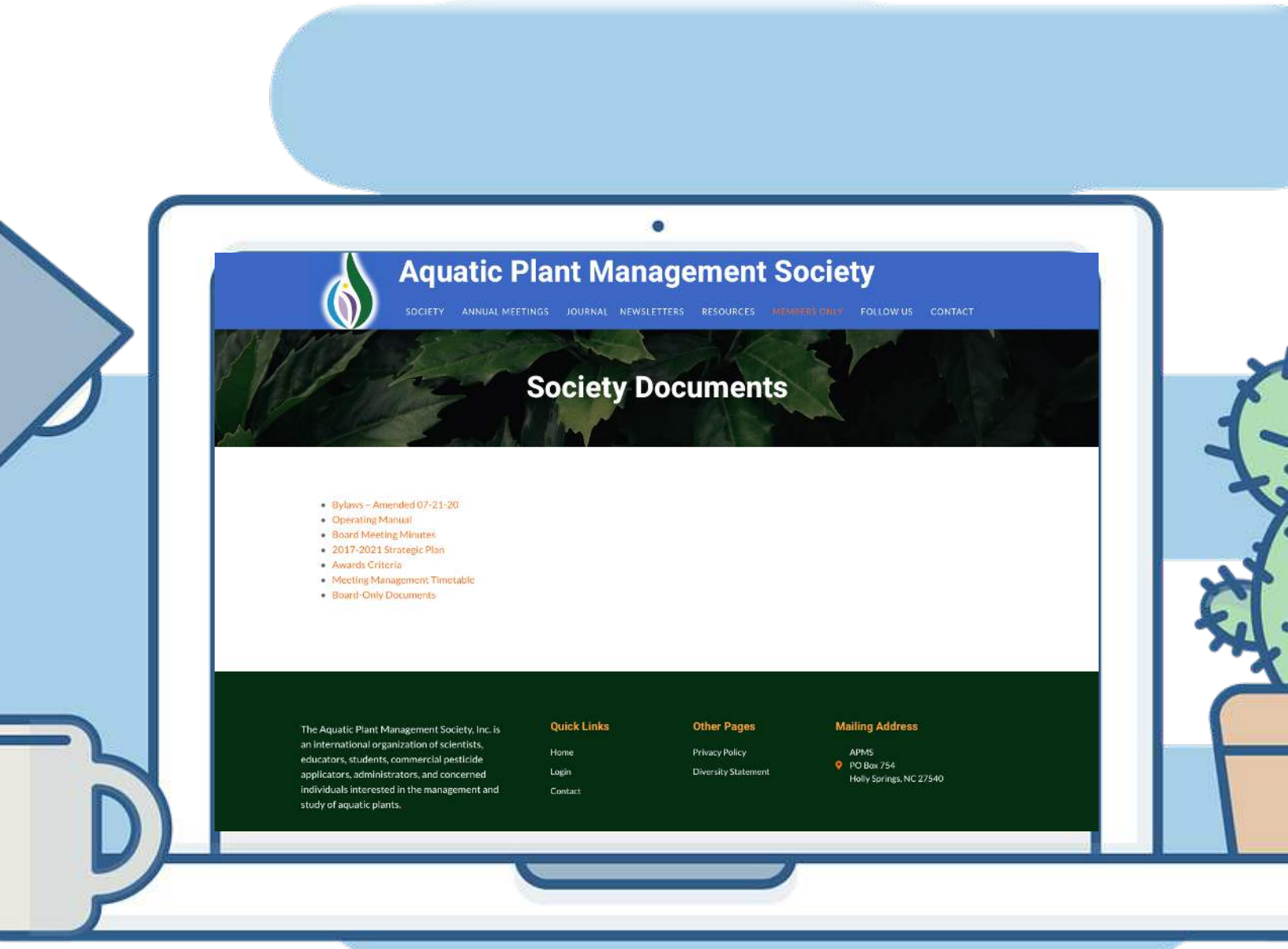
Biosafe Systems
East Hartford, CT

Cygnet Enterprises
Flint, MI

REMINDER

APMS Meeting Minutes

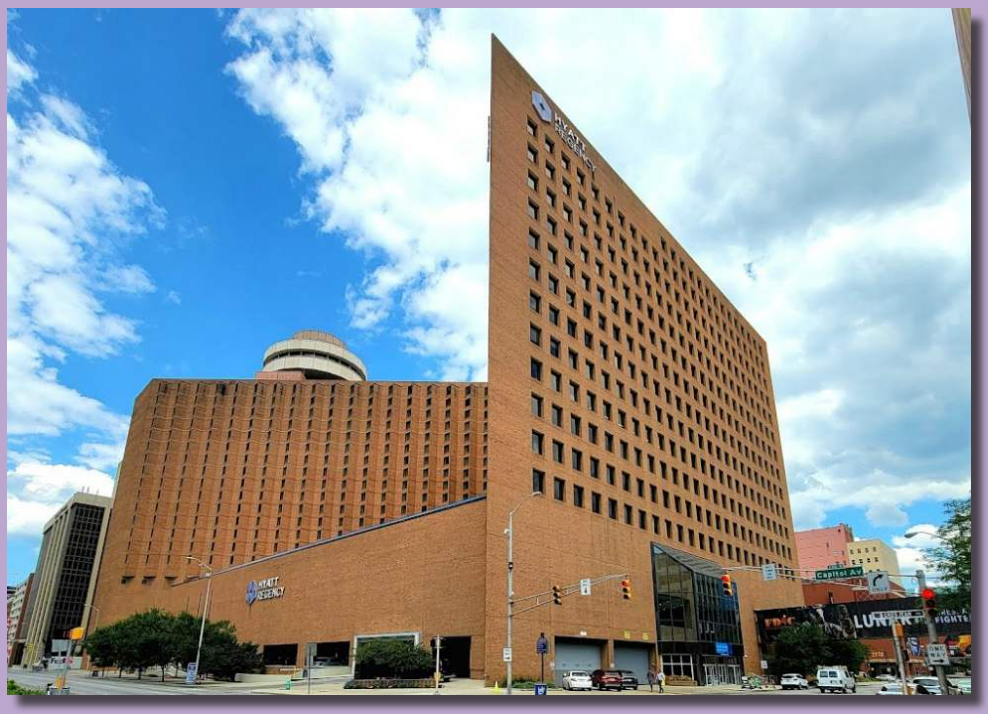
A reminder that APMS Meeting Minutes are posted online and available to members by logging in to the apms.org website under MEMBERS ONLY, and then selecting **SOCIETY DOCUMENTS**.



2023 APMS Annual Meeting

The 63rd Annual Meeting of the Aquatic Plant Management Society is scheduled for July 24-27, 2023, in Indianapolis, Indiana. Meeting information and details will be announced on the website as soon as they are available. Hope to see you there!

Hyatt Regency Indianapolis
One South Capitol Avenue Indianapolis, Indiana
Guest room rate $169/night



2022-23 Calendar of Events
for Regional Chapter Meetings & Related Events

46th Annual Florida Aquatic Plant Management Society Training Conference

October 3-6, 2022
Hilton Daytona Beach Oceanfront Resort - Daytona Beach, FL
https://fapms.org/conference/2022-conference/

41st MidSouth Aquatic Plant Management Society Conference

October 24-26, 2022
Battle House Renaissance Mobile Hotel & Spa - Mobile, AL
http://www.msapms.org/conferences/2022/

Texas Aquatic Plant Management Society Annual Conference

November 7-9, 2022
Embassy Suites by Hilton San Marcos Hotel Conference Center and Spa - San Marcos, TX
https://www.tapms.org/2022-annual-meeting/

30th Annual North American Invasive Species Management Association

November 7-10, 2022
Co-hosted with the Florida Invasive Species Council - Sanibel Harbour - Ft. Myers, FL
https://conference.naisma.org

North American Lake Management Society Conference

November 14-17, 2022
Minneapolis Marriott City Center - Minneapolis, MN
https://www.nalms.org/nalms2022/

Weed Science Society of America Annual Meeting

Jan. 30 - Feb. 2, 2023
Crystal Gateway Marriott - Arlington, VA
https://wssa.net/current-annual-meeting/

63rd Annual Meeting of the Aquatic Plant Management Society

July 24-27, 2023
Hyatt Regency Indianapolis Indianapolis, IN
See meeting details in the coming weeks/months: https://www.apms.org

Journal of Aquatic Plant Management Update

The JAPM has been receiving a steady number of submissions, and we're excited about maintaining quality content in this publication as we move it to a digital-only platform. JAPM is critical for disseminating information to the public about aquatic plant research and management needs.

Currently, the issues are slightly delayed in release as Editor Leon is altering the publication cycle to better align with the Society's needs. APMS is still working through some technical glitches with respect to moving the Journal online.

Any questions about submissions or the Journal itself can be directed to Dr. Ramon Leon, Editor, at rleon@ncsu.edu, or you can learn more by visiting https://apms.org/journal/

Regional Chapter Updates

MidSouth APMS

MidSouth is excited to share the launch of their brand new website - https://msapms.org

It is full of information about Membership, the 2022 Annual Conference (coming up October 24-26, 2022), Publications, Society Information, and more! Watch updates for the release of their new logo – coming soon!

You can also follow MidSouth APMS on social media to get the latest information on meeting announcements, aquatic plant updates, and more! It's a great way to network and stay connected to colleagues and friends. MidSouth APMS is on LinkedIn (@MidWouth Aquatic Plant Management Society) and on Facebook (@msapms1982). Give us a like, follow, share, and we look forward to interacting with you about invasive plant management in Arkansas, Tennessee, Georgia, Alabama, Mississippi, and Louisiana!

Regional Chapter Updates

NEAPMS UPDATE

NEAPMS Website: https://www.neapms.org

The Northeast Aquatic Plant Management Society (NEAPMS) will be holding its 24th annual meeting in Hyannis, MA in January 2023. Conference dates are Tuesday January 10th to Thursday January 12th, 2023.

Consider Presenting at our 24th Annual Meeting!
Abstract Submittal Due Date: October 4th, 2022
Simply go to the link provided below and fill in the blocks provided for your information, and click "submit" when done. https://lnkd.in/eJTse7R6

Students!
Student talks and posters are also being requested and encouraged. A student poster competition will be held again this year, with special prizes planned for the winner and runner up. Student presenters are eligible for registration waivers. Please submit an abstract for a talk or poster.
#conferences #students #aquaticlife #aquaticplants #invasivespecies #lakelife #society #watermanagement #waterindustry

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TAPMS UPDATE

TAPMS Website: https://www.tapms.org

Texas Aquatic Plant Management Society Annual Conference will be held November 7-9, 2022 at Embassy Suites by Hilton San Marcos Hotel Conference Center & Spa in San Marcos, Texas

- Early bird registration is open until September 30, 2022
- Updates on abstract submissions, scholarships and sponsorship opportunities can be found here.

State Aquatic Vegetation Plan laws amended in June 2022: private landowners are now NOT required to submit a plan to Texas Parks & Wildlife Department for removal of aquatic vegetation in adjacent public waters if removal is manual and disposal methods do not spread the species. This new treatment proposal exception only applies to floating plants or floating mats of dislodged plants*

JASM2022

GRAND RAPIDS, MICHIGAN, MAY 14 - 20

Joint Aquatic Sciences Meeting Update

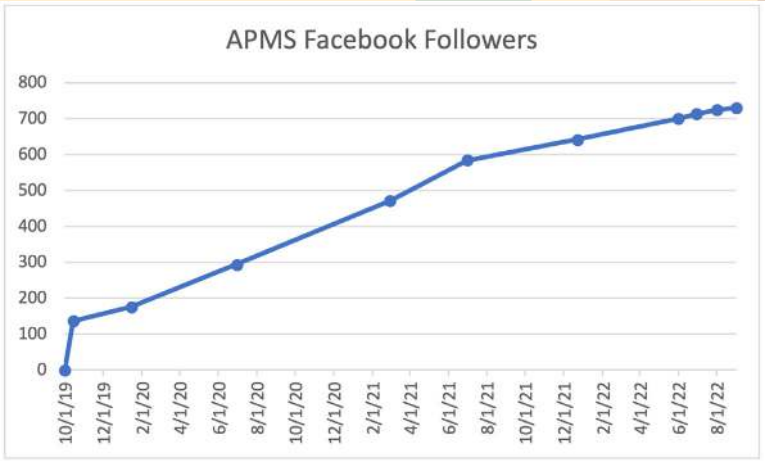
APMS sent a delegation to the Joint Aquatic Sciences Meeting (JASM) May 14-20, 2022. This meeting was held in Grand Rapids, Michigan, and included a consortium of aquatic scientists and resource managers from the American Fisheries Society, Association for the Sciences of Limnology and Oceanography, Coastal and Freshwater Estuarine Federation, Freshwater Mollusk Conservation Society, International Association of Great Lakes Research, North American Lake Management Society, the Phycological Society of America, Society for Freshwater Science, and the Society of Wetland Scientists. There were 4,000 attendees and JASM had double the amount of expected submissions for presentations on aquatic plant management – which were very well received! APMS representatives included Dr. Brett Hartis, Dr. Jason Ferrell, Mr. Matt Johnson, Dr. Mark Heilman. In addition to participating in the seminars during the scientific session on Harmful and Nuisance Algal Bloom/Proliferation Impacts on the Environment, APMS representatives also managed a booth in the exhibit hall, providing plenty of opportunity for networking and sharing consideration for aquatic plant and algae management with other professionals.

Social Media Update

Social media has fundamentally changed the way we communicate and having a dedicated social media presence is important for maintaining relevancy for professional societies, organizations, and businesses alike. Providing a consistent and scientifically accurate framework for outreach helps to educate the public, field questions and comments related to aquatic plant management, and promotes a positive learning environment about the work that we do. To make this successful, engagement across platforms is necessary as it facilitates two-way conversations, builds an audience of followers, provides feedback to the organization, and elevates the mission.

APMS social media accounts are growing like weeds (pun intended!), and we would love to hear from you! Look for ways to share a photo from the field or lab, provide an update about your research or field work, and feel free to contact our Social Media Manager, Amy Giannotti, if you have an announcement or post you'd like to elevate to the global aquatic plant management community.

APMS also has an active group on LinkedIn providing information, networking, and elevating APMS mission.



Facebook: @APMS1961

Instagram: @apmsociety

Twitter: @APMSociety

LinkedIn: Aquatic Plant Management Society

Science Policy Report

Summer, 2022
By, Lee Van Wychen

APMS Congressional Visits

We conducted over a dozen Congressional meetings on aquatic plant management issues over the past eight months with House and Senate staffers in member's offices as well as on relevant authorizing and appropriations committees. Many thanks to APMS leadership for participating in these virtual meetings including Mark Heilman, Rob Richardson, Ryan Wersal, Ryan Thum, Jay Ferrell and Carlton Layne. Main issues included seeking the full $25 million appropriation for the Army Corps Aquatic Plant Control Research Program (APCRP), discussing the potential impacts of the new strain of hydrilla in the Connecticut River basin, and supporting authorization and funding of invasive species provisions in the 2020 and 2022 Water Resources Development Acts (WRDA).

Key Congressional Leaders for Aquatic Plant Management Appropriations

Senate Energy & Water
Diane Feinstein (D-CA), Chair
John Kennedy (R-LA), Ranking Member

House Energy & Water
Marcy Kaptur (D-OH) Chair
Mike Simpson (R-ID) Ranking Member

Key Congressional Leaders for WRDA Authorizing Committees

Senate Environment & Public Works -EPW
Tom Carper (D-DE), Chair
Shelley Moore Capito (R-WV) Ranking Mem

House Transportation & Infrastructure- T&I
Peter DeFazio (D-OR) Chair
David Rouzer (R-NC) Ranking Member

2020 WRDA Invasive Species Provisions

A reminder of the invasive species provisions "authorized" in the 2020 Water Resources Development Act (WRDA): (RED text is proposed changes from the House and Senate versions of the 2022 WRDA reauthorizations bills):

1. Authorizes $25 million for a Harmful Algal Bloom (HAB) demonstration program to "determine the causes of, and implement measures to effectively detect, prevent, treat, and eliminate, harmful algal blooms associated with water resources development projects". The HAB demonstration program will be carried out by ACOE with focus areas in the Great Lakes, the tidal and inland waters of New Jersey, the coastal and tidal waters of Louisiana, the waterways of the counties that comprise the Sacramento-San Joaquin Delta, California, the Allegheny Reservoir Watershed in New York, and Lake Okeechobee, Florida." WRDA 2022 adds six more geographic focus areas to the HAB demonstration program: (7) the Caloosahatchee and St. Lucie Rivers, Florida; (8) Lake Sidney Lanier, Georgia; (9) Rio Grande River Basin, Colorado, New Mexico, and Texas; (10) lakes and reservoirs in the State of Ohio; (11) Detroit Lake, Oregon; and (12) Ten Mile Lake, Oregon.

2. Directs the Army Corps to conduct a terrestrial noxious weed control pilot program in consultation with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) "to identify and develop new and improved strategies for terrestrial noxious weed control on federal land under the jurisdiction of the Secretary (of the Army)".

3. Authorizes $50 million per year for FY 2021 - 2024 for ACOE to "enter into partnerships with applicable States and other Federal agencies to carry out actions to prevent the introduction of, control, or eradicate invasive species that adversely affect water quantity or water quality and ecosystems" in the Platte River Basin, the Upper Colorado River Basin, the Upper Snake River Basin, and the Upper Missouri River Basin. ACOE shall give priority to projects that are intended to control or eradicate Russian olive (Elaeagnus angustifolia) or saltcedar (of the genus Tamarix). WRDA 2022 authorizes at $75 million through FY 2028, adds "the Lake Erie Basin and the Ohio River Basin" to the list of eligible watersheds, and adds hydrilla as a priority species.

4. Authorizes $10 million for the Secretary of the Interior, acting through the Director of the U.S. FWS, to establish a pilot program "to remove invasive plant species in riparian areas that contribute to drought conditions" in the Lower Colorado River Basin; the Rio Grande River Basin; the Texas Gulf Coast Basin; and the Arkansas-White-Red Basin; and where appropriate, to replace the invasive plant species with ecologically suitable native species and to maintain and monitor those riparian areas.

5. Authorizes $25 million for the Secretary of the Interior, acting through the Director of the U.S. FWS, to establish a pilot program "to develop and carry out effective measures necessary to prevent, control, or eradicate aquatic invasive species in alpine lakes that are not located within a unit of the National Park System". WRDA 2022 (S.4136) extends this pilot program to 2026.

Lee Van Wychen, Ph.D. - Executive Director of Science Policy, National and Regional Weed Science Societies
Lee.VanWychen@wssa.net | 202-746-4686

Science Policy Report

[Continued]

WRDA 2022 Status in House and Senate

The Water Resources Development Act (WRDA) of 2022 in the House (HR.7776) passed by a 384-37 vote on June 8. The Senate voted on July 28 to pass their version of WRDA (S.4136) by a 93-1 vote. Conference negotiations are now underway between both chambers to reconcile differences. In addition to the changes highlighted in red above to existing 2020 WRDA provision, the following invasive plant related provisions include:

- **The House version amends 33 USC 2263a: Aquatic invasive species research (note- different from 33 USC 610) by** adding hydrilla to the list of priority species : "(a) In general- As part of the ongoing activities of the Engineer Research and Development Center (ERDC) to address the spread and impacts of aquatic invasive species, the Secretary (Army Corps) shall undertake research on the prevention, management, and eradication of aquatic invasive species, including Asian carp, elodea, hydrilla, quagga mussels, and zebra mussels."

- **The Senate version amends 33 USC 610 by extending the authority of the following pilot program from 2024 to 2026 (authorized at $10 million/year):**

  The Secretary (Army Corps), in coordination with the Aquatic Nuisance Species Task Force, shall carry out a pilot program under which the Secretary shall collaborate with States in the Upper Missouri River Basin in developing voluntary aquatic invasive species management plans to mitigate the effects of invasive species on public infrastructure facilities located on reservoirs of the Corps of Engineers in those States.

  (A) In general, the Secretary, in consultation with the Governor of each State in the Upper Missouri River Basin that elects to participate in the pilot program, shall prepare a management plan, or update or expand an existing plan, for each participating State that identifies public infrastructure facilities located on reservoirs of the Corps of Engineers in those States that-

  (i) are affected by aquatic invasive species; and

  (ii) need financial and technical assistance in order to maintain operations. Termination of authority - The authority provided under this subsection shall terminate on September 30, 2024. (WRDA 2022 extends to 2026)

Senate Confirms USDA REE Under Secretary Chavonda Jacobs-Young

On June 7, the Senate confirmed Dr. Chavonda Jacobs-Young to serve as Under Secretary for Research, Education, and Economics at USDA. Jacobs-Young was previously the administrator of the Agriculture Research Service, first appointed in February 2014.

Jacobs-Young is a native of Augusta, GA and earned a B.S. in paper science and engineering in 1989 from NC State. She also earned her M.S. in wood and paper science in 1992 and her Ph.D in paper science from NC State. After completion of her Ph.D, she worked as an Assistant Professor of Paper Science and Engineering at the University of Washington from 1995 until 2002 when she joined USDA. She also worked as a senior policy analyst for agriculture in the White House Office of Science and Technology Policy.

Toombs Appointed Acting USDA-NIFA Director

Dionne Toombs has been appointed to serve as Acting Director of USDA NIFA following the departure of Carrie Castille. With over a decade of USDA service, Dr. Toombs has significantly contributed to USDA's agricultural research, education, and Extension services while serving in various leadership roles. Most recently, she was Director of the Office of the Chief Scientist (OCS). She served as the head of the Division of Nutrition at NIFA and as the National Program Leader (NPL) for the Agriculture Food and Research Initiative. Prior to serving as NPL, Dr. Toombs was a Program Specialist for Food Science and Nutrition at the former USDA Cooperative State Research Education and Extension Service, now NIFA.

Lee Van Wychen, Ph.D. - Executive Director of Science Policy, National and Regional Weed Science Societies
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Science Policy Report

[Continued]

Monarch Numbers Increase

The numbers are in and they are much greater – 2.84 hectares – than predicted. Experts were predicting as few as 0.8 hectares of monarchs overwintering due to the anticipated impact of the drought in much of the Upper Midwest last summer, the extreme temperatures in July and August in that region, and the later than average migration

Read more from Chip Taylor, Monarch Watch Blog: https://monarchwatch.org/blog/2022/05/24/monarch-numbers-in-mexico-predictions-and-reality/

2023 Farm Bill

We have worked with the NAISMA legislative committee to advance four invasive species policies for the 2023 Farm Bill. See: https://naisma.org/wp-content/uploads/2022/03/2022NISAW_positionpaper_FarmBill.pdf

Our top recommendation is to update the definition of plant pest to include all noxious weeds, not just parasitic plants. Currently, under 7 USC 104 Section 7702: the term "plant pest" means any living stage of any of the following that can directly or indirectly injure, cause damage to, or cause disease in any plant or plant product:

(A) A protozoan.
(B) A nonhuman animal.
(C) ~~A parasitic plant~~ **noxious weed**.
(D) A bacterium.
(E) A fungus.
(F) A virus or viroid.
(G) An infectious agent or other pathogen.
(H) Any article similar to or allied with any of the articles specified in the preceding subparagraphs.

NISAW: February 20-26, 2023

National Invasive Species Awareness Week (NISAW) will be digital again next year according to NAISMA. If you have topics or issues of concern, or would like to help plan next year's NISAW, please let me know. Lee.VanWychen@wssa.net

Meetings of the National and Regional Weed Science Societies

- Dec. 5 - 8, 2022 North Central Weed Science Society (NCWSS), St. Louis, MO www.ncwss.org
- Jan. 23 - 26, 2023 Southern Weed Science Society (SWSS), Baton Rouge, LA www.swss.ws
- Jan. 30 - Feb. 2, 2023 Northeastern Weed Science Society (NEWSS), Arlington, VA www.newss.org
- Jan. 30 - Feb. 2, 2023 Weed Science Society of America (WSSA), Arlington, VA www.wssa.net
- Feb. 27 – Mar 2, 2023 Western Society of Weed Science (WSWS), Boise, ID www.wsweedscience.org
- Jul. 24 - 27, 2023 Aquatic Plant Management Society (APMS), Indianapolis, IN www.apms.org

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Sustaining Members

Membership does have its privileges!

The Aquatic Plant Management Society is grateful for our Sustaining Members whose generous annual contributions sponsor our most important core values, especially education and outreach initiatives. Sustaining Membership costs $500 and includes membership privileges for one designated representative; subscription to the Journal of Aquatic Plant Management; access to the APMS newsletters and social media content; recognition as a Sustaining Member in newsletters, the Annual Meeting Program, and on the APMS website.

For more information on what Sustaining Membership entails, please visit https://apms.org/sustaining-members/

Thank you all for your support in 2022!

AgroShield has been serving the Agriculture and Aquatic industries since 2015. Our Vodaguard product was developed to cure infections in the upper water column. Vodaguard's unique follow the bloom technology concentrates the cure where it is needed the most. Vodaguard C is a copper sulphate pentahydrate product. Vodaguard O is a sodium percarbonate that becomes hydrogen peroxide when introduced to water. Both products have a patented formulation that allows them to be buoyant for 24 to 36 hours. Reduces manpower, machinery, and un-necessary product which reduces cost. Please visit us at: https://www.agro-shield.com/our-products/algaecides.

Since 1981, Applied Aquatic Management, Inc., (AAM) has provided innovative and effective water management services, selective vegetation control, wetland management and exotic weed control. AAM has clients throughout Florida including developers, homeowners associations, golf courses, mobile
home communities, utilities, local, state and federal government agencies and industry. Our experienced professional staff provides unique knowledge along with advanced equipment to manage all types of waterway, right-of-way, wetland, and upland systems.

AquaMaster Fountains and Aerators is the industry leader for quality and dependable Fountains and Aerators for all your aquatic requirements. Awareness of water quality management has never been higher. In our environmentally conscious world, today's successful aquatic managers are making aeration equipment the foundation of their aquatic management programs. Their goal is to increase the dissolved oxygen level, which stimulates the natural cleanup process, resulting in an aesthetically pleasing, healthy body of water.

Sustaining Members

Aqua Services, Inc. is a full-service water resource management company that has operated continuously in business for 40 years. In addition to its original focus on aquatic weed management operations for federal, state, and private entities, Aqua Services now provides superior fisheries population management, HAB and cyanobacteria control, lake design services, aeration design and installation, and soil sealant services to mitigate lake and pond seepage. Our experienced biologists and technicians work throughout the Southeast and Midwest to provide critical services to numerous clients. Successful projects have also been completed internationally, including Mexico and The Bahamas.

AquaTechnex, LLC is a lake and aquatic plant management firm that operates in the Western United States. The company is expert in the use of aerial and boat GIS/GPS technologies to assess aquatic environments. The firm is also expert in the management of invasive aquatic weed species and phosphorous mitigation to suppress toxic cyanobacteria blooms. Our web site is www.aquatechnex.com; please drop by regularly to get news updates as we have moved our blog onto the site.

Aquatic Control, Inc. has been managing aquatic resources since 1966. As a distributor of lake management supplies, floating fountain aerators, and diffused aeration systems, Aquatic Control represents Applied Biochemists, AquaBlok, BioSafe Systems, Brewer International, SePRO, Syngenta, United Phosphorus, AquaMaster, Kasco, and Otterbine. Aquatic Control has five offices that offer aquatic vegetation management plans including vegetation mapping and application services, fountain and aeration system installation, maintenance, and service throughout the Midwest.

Aquatic Vegetation Control, Inc. (AVC) is a Florida corporation founded in 1986 offering vegetation management and general environmental consulting services throughout the southeast. Since its establishment as an exotic/nuisance vegetation management company specializing in the control of invasive wetland, aquatic and upland species, AVC has broadened its scope of capabilities to include; certified lake management, fish stocking, re- vegetation, mitigation and restoration services, mitigation monitoring services, aquatic, roadside, forestry and utility vegetation management, and environmental/ ecological consulting.

BioSafe Systems has been offering sustainable and effective solutions for lake management, municipal and wastewater treatments and other water resources since 1998. Our uniquely balanced, broad-spectrum chemistries are designed to enhance your water's health, quality and appearance. Alternatives to products that utilize copper, or other harsh and sometimes toxic chemicals, BioSafe Systems' complete line of products are EPA registered, USDA NOP compliant, OMRI listed and effectively alleviate algal issues with minimal impact on the environment.

Chem One is a national leader of Organic Copper Sulfate for aquatic management. With eight standard EPA label grades; Fine 20, 25, 30, 100, 200, Small, Medium and Large. Chem One has a grade to meet every customer's needs. With our corporate offices and 78,000+ square foot warehouse in Houston, Texas, Chem One is a national wholesale company that is certified to ISO 9001, ISO 14001, OHSAS 18001.

Sustaining Members

Clarke Aquatic Services is a global environmental products and services company. Our mission is to make communities around the world more livable, safe, and comfortable. By understanding our customers' needs, we tailor service programs that draw on our unmatched breadth of industry experience, expertise, and resources. Clarke pioneers, develops, and delivers environmentally responsible mosquito control and aquatic services to help control nuisances, prevent disease, and create healthy waterways.

Compliance Services International (CSI) is a leading regulatory consultancy providing innovative solutions for organizations faced with regulatory and environmental challenges. CSI's experienced scientists and regulatory specialists in the USA and the EU provide innovative approaches to solving regulatory and environmental challenges – combining traditional sciences with developing technologies to deliver economically sensible and scientifically sound results.

Cygnet Enterprises, Inc. is a national single source distributor of aquatic management products with offices and warehouses in Michigan, Indiana, Pennsylvania, North Carolina, California and Idaho. Cygnet is proud of its reputation for outstanding service, friendly, knowledgeable staff and our unmatched support of the aquatics industry. Cygnet Enterprises is the only aquatic distributor at the Charter Gold Member level in the Aquatic Ecosystem Restoration Foundation (AERF).

Since 1973, Diversified Waterscapes, Inc. has offered lake management services and ecological products to professional applicators. Our proven field experience in pond and lake cleaning enabled us to develop an eco-friendly line of products that show dramatic results in any aquatic environment. With more than 45 years of experience, we have been providing aquatic treatment products and maintenance service for some of the world's best water features, including the famous Bellagio Fountain in Las Vegas – delivering clearly better results without harming the environment. Our mission is to combine extensive industry experience, mechanical aptitude and scientific knowledge to bring clarity, cleanliness and beauty to water features across the country.

Duke Energy "Building a smarter energy future". Duke Energy (NYSE: DUK), a Fortune 150 company headquartered in Charlotte, N.C., is one of the largest energy-holding companies in the U.S. It employs 30,000 people and has an electric generating capacity of 51,000 megawatts through its regulated utilities, and 3,000 megawatts through its nonregulated Duke Energy Renewables unit. Duke Energy is transforming its customers' experience, modernizing the energy grid, generating cleaner energy, and expanding natural gas infrastructure to create a smarter energy future for the people and communities it serves. More information about the company is available at duke-energy.com. Follow Duke Energy on Twitter, LinkedIn, Instagram and Facebook.

Sustaining Members

Lake Restoration, located in MN, has specialized in controlling pond weeds, lake weeds, and nuisance algae since 1977. Lake Restoration's product line-up includes: Mizzen, a copper based algaecide, Spritflo and Dibrox herbicides, a variety of pond dyes and nutrient reducers. Lake Restoration also manufactures the TORMADA product application boat, Vitaflume floating fountains, the retractable Goose D-Fence system, and the patented LAKEMAID to eliminate lake weeds automatically.

The Lee County Hyacinth Control District was formed by the Florida Legislature in June 1961to curtail excessive growths of water hyacinth. That same year, water managers from across the state convened in Lee County and formed the Hyacinth Control Society, now APMS, to share control strategies and develop a comprehensive management approach to Florida's most prolific aquatic plant. T. Wayne Miller, Jr. of Lee County served as the Society's President for the first two years and Lee County has been a supporting member of APMS since its inception.

Maxunitech is an integrated enterprise focusing on the Research and Development, production, sales of agrochemicals, and relevant intermediates and other fine chemicals. Established in 2000, under the principles of "people oriented, united for innovation and pursue excellence", we have been researching and developing new products, solving commercial issues from the perspective of technology, and fulfilling enterprise value with value added for our clients.

Invasive weeds can devastate both natural and commercial habitats. Syngenta provides high performance products to control destructive weeds while helping to restore the habitat of aquatic environments. Syngenta offers proven aquatic herbicides like Reward® and Tribune™ that provide fast burn-down, work well in cool weather and are rainfast in as little as 30 minutes. The active ingredient, diquat dibromide, has been used successfully in sensitive aquatic areas for over 25 years.

UPL NA, Inc. is a premier supplier of crop protection products and technologies designed for the agricultural, specialty, fumigation and aquatic markets. The Aquatics Division is part of the Environmental Solutions group which has manufactured aquatic herbicides and algaecides for the management of lakes, ponds, rivers and irrigation canals for more than 40 years. These products are marketed as Aquathol®, Hydrothol®, AquaStrike®, Current®, Symmetry®, Cascade®, Teton®, and Top Deck™. Most recently the development and commercialization of the ADAPT aquatic drone boat for improved application accuracy and efficiency was launched. With a customer-centric focus, UPL is committed to providing product stewardship and technical support to ensure your plant management operations are successful. Visit us at: https://uplaquatics.com/

Incorporated in 1961 as a forum to share water hyacinth control experiences, today APMS and its seven Regional Chapters promote research and outreach to manage all species of aquatic plants and algae.

General Info for Membership, Etc.

The Aquatic Plant Management Society, Inc. is an international organization of scientists, educators, students, commercial pesticide applicators, administrators, and concerned individuals interested in the management and study of aquatic plants and algae. The membership reflects a diversity of federal, state, and local agencies, universities and colleges around the world, corporations, and small businesses.

VISION

The Vision of the Aquatic Plant Management Society is to be the leading international organization for scientific information on aquatic plant and algae management.

MISSION

The Mission of the Aquatic Plant Management Society is to provide a forum for the discovery and dissemination of scientific information that advances aquatic plant and algae management policy and practice.

STATEMENT ON EQUITY, DIVERSITY, & INCLUSION

Creating an atmosphere of inclusion is vital to the Aquatic Plant Management Society (APMS). Contributions and perspectives from all members, students, event participants, and our local and international communities are important. Diversity includes age, culture, disability, ethnicity, gender, national origin, color, race, religion, sexual orientation, and diversity of thoughts and ideas. We recognize that embracing and encouraging diversity is critical to fulfilling our mission to 'Provide a forum for the discovery and dissemination of scientific information that advances aquatic plant and algae management policy and practice'. APMS will strive to further cultivate a Society built on mentorship, encouragement, tolerance, and mutual respect, and foster a welcoming environment for all.

To join, visit this link: http://www.apms.org/society/membership/

To renew a membership, login and visit this link: http://www.apms.org/member-login/

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Many of our regional chapters are active on social media, too. Give them a like and a follow!