



Aquatic Plant News

The Newsletter of the Aquatic Plant Management Society, Inc.

April, 2022 – Issue 129



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Cover image courtesy of Amy Giannotti

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

Newsletter Editor, Amy Giannotti

APMS President's Update



Although aquatic plant management has been in full swing in several parts of the country, and is gearing up in others, this ski fanatic is desperately clinging to the last bits of what has been a warmer and drier than average winter in the Rocky Mountains.

Spring is also a time when your APMS committees, directors, and officers are gearing up for our upcoming annual meeting. This year's 62nd annual meeting is at the Hyatt Regency in Greenville, SC, from July 18-22. The meeting will be in person, and we hope you will be able to join us. Whether you are an academic researcher, practitioner, or agency personnel, we hope you will consider submitting an abstract for an oral or poster presentation at the conference. Abstract submissions will be accepted until May 13, 2022. Additional information can be found at <https://apms.org/2022-annual-meeting/>.

The Board has been active over the last year. I will leave some updates and details for other reports in the newsletter, but I will briefly touch on a few key activities here.

First, the Board of Directors approved several proposed Bylaws changes that consolidate and eliminate some committees. As the Society, and world around us, has changed, so has the relevance and functionality of some committees. Consolidating and eliminating defunct committees will streamline the committee reports during Board meetings, and allow greater discussion and consideration of Society business. I thank Dr. James Leary and the Bylaws Committee for their efforts to craft the proposed changes. I briefly summarize the proposed Bylaws changes here, and these changes must be voted on by the general membership at the annual business meeting.

1. Eliminate the Legislative Committee. As a practical matter, this committee is essentially now redundant with Lee Van Wychen's duties and reports as the Weed Science Society of America's Science Policy Director.
2. Eliminate the Publications Committee. The duties of this committee are covered by the Journal of Aquatic Plant Management's Editor, and the Education & Outreach Committee.
3. Consolidate the Website Committee with the Education & Outreach Committee.
4. Consolidate the Scholastic Endowment Committee with the Finance Committee.

Second, APMS continues to work on converting the Society to a 501(c)(3) organization. This change in organizational structure is important to facilitate larger donations, which in turn is important for building the Michael D. Netherland Graduate Student Research Grant fund. The overall goal is to make this research grant self-sustaining. Historically, and currently, this award has been funded collaboratively through APMS' fundraising activities, and contributions from the regional chapters. However, it has always been a challenge for regional chapters to balance funding their own scholarships with contributing to the Michael D. Netherland Graduate Student Research Grant. Therefore, having a self-sustaining fund is an important strategic focus for APMS. I thank the Finance Committee, especially Chair Andy Fuhrman, for their efforts on this important transition.

Speaking of Strategic Planning brings me to my third brief update. Our next Strategic Planning meeting will take place immediately before the annual conference at the conference venue in Greenville, SC. I thank Dr. Mark Heilman for all of his efforts on Strategic Planning over the past cycle, and continuing into this cycle.

Finally, APMS has done several things to help accomplish its strategic vision of expanding our reach and interest. Along with the Midwest APMS, APMS cosponsored and cohosted a symposium at the upcoming Joint Aquatic Sciences Meeting in Grand Rapids, Michigan, this May 14-20. I thank Matt Johnson, Brett Hartis, and Mark Heilman for leading this effort. We hope to see some of you there! We also continue to provide support to organizations like BASS and CAST. We provided sponsorship support to the North American Invasive Species Management Association. And, we continue to interact with other societies with similar missions and visions, like NALMS and WSSA.

I would like to thank all of the Officers, Directors, and Committee Chairs and members for all of their thoughtful and hard work. And, I thank all APMS sponsors and members for all of your efforts and contributions that make this Society what it is.

Sincerely,

Ryan Thum

President – APMS

2022 APMS Board of Directors Nominees



Jeremy Slade

Vice President – Jeremy Slade

Mr. Jeremy Slade earned a B.S. in Biology from the University of Mississippi in 2002, and a M.S. in Wildlife and Fisheries Science from Mississippi State University (MSU) in 2005. From 2005 to 2008, he worked as a research associate in the Department of Wildlife and Fisheries at MSU, and a research scientist contracted by the US Army Engineer Research and Development Center, US Army Corps of Engineers, Chemical Control Team. In 2008, Jeremy accepted the position of senior biological scientist at the Center for Aquatic and Invasive Plants, University of Florida where he evaluated multi-scale herbicide applications for controlling hydrilla and other nuisance plants managed by the Florida Fish and Wildlife Conservation Commission until the end of 2010. Investigating new use patterns, including herbicide efficacy and selectivity was a large component of this work. In January 2011, Jeremy joined UPL NA Inc., previously United Phosphorus, Inc., as an Accounts Manager in Aquatics for the southeast US covering the Gulf States. Responsibilities in this role included supporting and providing technical assistance of UPL's aquatic products portfolio to ensure proper use resulting in responsible and effective aquatic plant management programs. In April 2019, Jeremy was promoted to Business Lead of UPL's Aquatics Division. In this role his primary responsibility is to oversee the sales, marketing and business development while managing a team of five territory sales managers and one field development manager. Jeremy is involved with several national and regional aquatic plant management industry affiliates including holding Board of Director's positions; The Aquatic Plant Management Society (previously Treasurer), Midsouth Aquatic Plant Management Society (Past President), Florida APMS (Past President & Scholarship Foundation Secretary/Treasurer), Aquatic Ecosystem Restoration Foundation (Gold Member), Responsible Industry for a Sound Environment, Midwest; South Florida; Texas; and Western Aquatic Plant Management Society member. In his free time Jeremy enjoys spending time with his family doing anything water related (fishing, swimming, scalloping) and traveling.



Amy Giannotti

Secretary – Amy Giannotti

Amy Giannotti is the founder of AquaSTEM Consulting, LLC – an environmental consulting company specializing in lake and aquatic plant management, aquatic habitat restoration, and STEM outreach initiatives. Amy is an environmental scientist and Certified Lake Manager, and she has over 20 years of experience working in temperate and subtropical marine and freshwater systems, including coastal and freshwater vegetation dynamics, exotic species management, impacts of nutrient enrichment and remediation efforts, stormwater management and watershed hydrology, and public speaking on environmental issues affecting lakes, springs, and karst community ecology. Amy holds a B. S. in biology from Marietta College (Ohio) and earned her M.S. in environmental science from the University of Virginia, with a specialty in marine ecology. In addition to her work in the private sector, Amy has extensive experience leading lake and natural resource management efforts for state and local governments in Florida, and some of her professional affiliations include APMS, FAPMS, and NALMS. In her spare time, Amy enjoys scuba diving, snorkeling, hiking, and exploring the great outdoors.



Justin Nawrocki

Treasurer – Justin Nawrocki

Justin currently resides in Raleigh, NC with his wife and 1 daughter. He started his aquatic plant management career as an herbicide applicator in Michigan focusing on EWM and CLP control in large lake systems. Currently, Justin is the east coast territory manager for UPL's Aquatic division. He received his Masters and PhD from NC State University researching Hydrilla's tuber bank response to management as well as the effects on sport fish and macroinvertebrates from revegetating Piedmont reservoirs. Justin is active in numerous societies, presenting at nearly all the regional APMS chapters, and is the immediate past president of SCAPMS and is the current treasurer of APMS. In his spare time, he stays as far away from water as possible and enjoys volunteering.



Gray Turnage

Director – Gray Turnage

Gray is an Assistant Research/Extension Professor at Mississippi State University and has 13+ years of research experience in aquatic and wetland ecosystems. He has been involved with several research projects across the U.S. establishing control efforts and protocols for invasive aquatic/wetland plants as well as monitoring those efforts to analyze restoration success of native flora after control measures have been implemented. His projects range in size from entire watersheds to sub-acre sites. Gray is the MSU subject matter expert for UAS use for managing wetland and aquatic resources. Gray has also worked as a private wetland consultant in Mississippi. This work regularly includes consulting with resource managers and landowners, writing management plans, monitoring plant community dynamics over time, as well as GIS mapping of site characteristics and plant species locations. He is a member of the MidSouth and National Aquatic Plant Management Societies (APMS), the Mississippi Cooperative Weed Management Association (CWMA), and is a founding council member of the Mississippi Aquatic Invasive Species Council.



Troy Goldsby

Director – Troy Goldsby

Troy has worked for Aqua Services, Inc. for 23 years. He now owns the company with his brother Bryan and their father, Terry, still helps in consulting. Troy has been on the board, and president, of the following organizations: MSAPMS (Midsouth Aquatic Plant Management Society), AFS (Alabama Fisheries Society), TVMA (Tennessee Vegetation Management Association), and SLMP (Society of Lake Management Professionals) of which he was a founding member. Recently, Troy and Aqua Services, have begun a new project with Bill Dance as his private consultants in the new Bill Dance Signature Lake series for the state of Tennessee. Troy continues to assist on numerous fisheries management projects with a primary focus largemouth bass growth. He also coordinates many large scale aquatic plant and cyanobacteria control projects for Aqua Services throughout the southeast utilizing specialized equipment designed by Aqua Services, Inc. Collegiate course studies at University of North Alabama, University of South Alabama, and Oregon State University (wildlife/fisheries emphasis). Executive and biological responsibilities include field management of aquatic vegetation and fisheries projects throughout the United States, Mexico, and the Bahamas.

2022 APMS Annual Meeting

The 62nd Annual Meeting of the Aquatic Plant Management Society will be held in Greenville, South Carolina, from July 18-22, 2022.

There are lots of neat things to do and see in the Piedmont! Start planning your adventure now by visiting <https://www.visitgreenvillesc.com>.



PROGRAM UPDATE

2022 APMS Annual Meeting

The 62nd Annual Meeting of the Aquatic Plant Management Society in Greenville, SC is rapidly approaching! Our meeting planning and program committees have been hard at work putting together an exciting event.

We will kick things off on the evening of Monday July 18th with the President's Reception at [Ink N Ivy](#), one of Greenville's premier social spots. Enjoy a taste of southern cuisine while catching up with old friends and colleagues.

Tuesday (July 19th) and Wednesday (July 20th) will feature a full day of presentations from the cutting edge of aquatic plant and algae management research. Don't miss our opening session highlighting the status of Harmful Algal Blooms (HABs) and the outlook for future monitoring and management needs. For special luncheon opportunities, have a look at our "events-at-a-glance" found below.

Don't forget to join us Wednesday night for the APMS Awards Banquet, being held at Studio 220 @NOMA. Guests will enjoy a delicious plated dinner while recognizing the great contributions of our APMS members.

Be sure to hang around on Thursday (July 21st), as we close out the conference with a demonstration session featuring technological advancements in management.

See the below "events at a glance" for more information on dates and times. Event times are subject to change as the program is finalized.

Second Call for Papers: Slots for oral and poster presentations are filling up quickly, so please submit your title and abstract as soon as possible. Oral and poster presentations are solicited for original research on the biology or ecology of aquatic and wetland plants and algae, control methods (biological, chemical, cultural, mechanical) for invasive, exotic or nuisance plant or algal species, and restoration projects involving wetland or aquatic plants and algae. Presentation of original research will be given preference and should be indicated by including results in the abstract. This year's meeting will feature a special session discussing the status of Harmful Algal Blooms (HABs) and the outlook for future monitoring and management needs. Invited speakers and submitted talks will drive discussions of regional and national impacts of harmful algal blooms, needs for short- and long-term control strategies, and defining the society's role in achieving meaningful results. Oral presentations may include original research on the biology or ecology of harmful algae, control of HABs, and other similar topics. Abstracts submitted for the special session should be indicated during the abstract submission process. The last day to submit abstracts is May 13th, 2022. For more information on submitting an abstract, click [HERE](#).

There are lots of neat things to do and see in the Piedmont! Start planning your adventure now by visiting <https://www.visitgreenvillesc.com>.

2022 APMS Annual Meeting

Events At-A-Glance

Sunday, July 17th

Start time	End time	Event
10:00 AM	4:00 PM	APMS Strategic Planning

Monday, July 18th

Start time	End time	Event
7:30 AM	5:00 PM	APMS Board of Directors Pre-Conference Board Meeting
8:00 AM	5:00 PM	Exhibits and Poster Setup
12:00 PM	5:00 PM	Registration
6:00 PM	7:00 PM	Student Meet & Greet
7:00 PM	9:00 PM	President's Reception @ Ink N Ivy

Tuesday, July 19th

Start time	End time	Event
7:00 AM	5:00 PM	Exhibits and Posters
8:00 AM	5:00 PM	Registration
7:30 AM	8:30 AM	Breakfast
8:00 AM	12:00 PM	Special IAB Session
10:30 AM	10:45 AM	Morning Break
12:00 PM	1:30 PM	Lunch on your own
12:00 PM	1:30 PM	Past Presidents' Luncheon
12:00 PM	1:30 PM	Women of Aquatics Luncheon
1:30 PM	4:30 PM	General Sessions I&II
2:40 PM	3:10 PM	Afternoon Break
4:30 PM	5:10 PM	APMS and SCAPMS Business Meeting
6:00 PM	7:00 PM	Regional Chapters Evening Discussion
6:00 PM	7:00 PM	Poster Session

Wednesday, July 20th

Start time	End time	Event
7:00 AM	5:00 PM	Exhibits and Posters
8:00 AM	5:00 PM	Registration
7:30 AM	8:30 AM	Breakfast
8:00 AM	12:00 PM	General Session III&IV
10:30 AM	10:45 AM	Morning Break
12:00 PM	1:30 PM	Lunch on your own
12:00 PM	1:30 PM	Student Luncheon
1:30 PM	4:30 PM	General Sessions V&VI
2:40 PM	3:10 PM	Afternoon Break
6:00 PM	7:00 PM	Awards Reception
7:00 PM	9:30 PM	APMS Awards Banquet

Thursday, July 21st

Start time	End time	Event
7:00 AM	5:00 PM	Exhibits and Posters
8:00 AM	5:00 PM	Registration
7:30 AM	8:30 AM	Breakfast
8:00 AM	12:00 PM	General Session VII
10:30 AM	10:45 AM	Morning Break
12:00 PM		APMS Conference Concludes
12:30 PM	5:00 PM	APMS Board of Directors Post-Conference Board Meeting
12:30 PM	5:00 PM	AERF Board of Directors Meeting

Friday, July 22nd

Start time	End time	Event
6:45 AM	7:15 AM	Student Breakfast
7:15 AM	5:00 PM	Student Tour
7:00 PM	9:00 PM	Student Dinner

If you have any questions, please contact:

Dr. Brett Hartis
2022 APMS Program Chair
Brett.hartis@duke-energy.com

Matters Requiring Votes at the Annual Business Meeting in July 2022

Proposed Increase in Individual Membership Dues

The Board of Directors approved an increase in annual membership dues by 20% to become effective in 2023-24 upon approval by the general membership at the Annual Business Meeting. This increase is necessary to help address rising costs of conference space, inflation, etc.

Proposed Changes to the Aquatic Plant Management Society Bylaws

Please review these proposed changes to the Bylaws – with committee eliminations and consolidations – that were discussed at the MidYear Board of Directors Meeting and are presented to the general membership for a vote at the Annual Meeting in July 2022.

1) Eliminate the Legislative Committee

Remove language in the bylaws:

6. Legislative Committee. This committee shall consist of not fewer than five (5) voting members whose duties shall be to inform itself as to any legislation pending of interest to the Society and to make recommendations to the Board of Directors on the same.

2) Eliminate the Publications Committee

Remove language in the bylaws:

13. Publications Committee. This committee shall be responsible for the quality and quantity of all Society publications. The committee shall prepare the editorial policy, publication format, and procedures for approval by the Board of Directors. The committee shall be chaired by the Editor of the Journal of Aquatic Plant Management. Additional members shall include the Associate Editor(s), the Secretary, and at least three other members of the Society. A selected member of this Committee shall serve on the Strategic Planning Committee.

Proposed Changes to the Aquatic Plant Management Society Bylaws (continued)

3) Consolidate Website and Ed/Outreach

Remove language in the bylaws:

18. **Website Committee.** This committee will be responsible for maintaining the website and will coordinate all structural modifications therein. In addition, the committee will be responsible for approving all postings on the site. This committee shall consist of no fewer than three (3) members.

Edit language (highlighted in red) in the bylaws:

3. **Education and Outreach Committee.** This committee shall be responsible for identifying specific educational needs and issues appropriate for APMS sponsorship. Once such needs are identified and verified, this committee shall direct the coordination, development, and production of Society sponsored educational materials **including social media messaging** and **online** programs as deemed appropriate by the Board of Directors. The Chair shall also serve on the Strategic Planning Committee. The committee shall consist of not less than five (5) members, one of whom shall be the Chair of the Student Affairs Committee.

4) Consolidate Scholastic Endowment with Finance

Remove language in the bylaws:

15. **Scholastic Endowment Committee.** This committee shall be responsible for coordinating fund raising activities for the Society's Scholastic Endowment Fund. The committee shall consist of not less than four (4) members, one of whom shall be the Chair of the Student Affairs Committee.

Edit language (highlighted in red) in the bylaws:

5. **Finance Committee.** This committee shall 1) review all financial records at the end of each fiscal year, 2) prepare a report on the Society's financial status for presentation to the Board of Directors at the mid-year meeting, 3) prepare the annual budget of the Society, 4) advise and assist the Treasurer in maintaining Society financial records and in preparing reports for the Board of Directors, 5) coordinate fund raising activities for the Society's Scholastic Endowment Fund.




Proposed Changes to the Aquatic Plant Management Society Bylaws (continued)

5) Reorder the committee list

- **6. Meeting Planning Committee.** This committee shall have at least three members. The committee shall investigate alternative sites within a region, and provide a recommendation to the Board of Directors to aid in selecting the meeting site and property. Upon recommendation of this Committee and approval by the Board of Directors, this Committee may secure the services of a Meeting Planner firm or contractor via a competitive bid process for the purposes of assisting with carrying out their designated responsibilities.
- **7. Membership Committee.** This committee shall consist of not fewer than five (5) active members of the Society; one of whom shall be the Secretary, one of whom shall be the Chair of the Student Affairs Committee and one of whom shall be the Vice President. This committee shall investigate and promote memberships in the Society. The committee shall inform the Society about the death of a member. The committee shall also assist in the preparation of letters of condolence sent on behalf of the Society by the President.
- **8. Nominating Committee.** The Nominating Committee shall consist of not fewer than five (5) members, to be chaired by the Immediate Past President, and shall recommend to the Society candidates for election to the several offices. This committee shall inform the Society membership of the slate of nominees for office at least 30 days prior to the annual business meeting (an exception may be made for Student Director if selection of a nominee by the Student Affairs Committee cannot meet that deadline). Terms of membership in the Nominating Committee shall be for no more than two successive years, and a two-year break shall occur between periods of service on this committee.
- **9. Past Presidents Advisory Committee.** This committee shall consist of all past Presidents of the Society who are members in good standing and shall be chaired by the Immediate Past President of the Society. The duties of this committee shall be to examine the aims and goals of the Society, make recommendations to the Board of Directors related to achieving these aims and goals, and to review and suggest changes to the Operating Manual, as may be appropriate.
- **10. Program Committee.** The program committee shall consist of the members of the Board of Directors, chaired by the President Elect, and its duty shall be to provide programs for each annual meeting. It shall be at the discretion of the Board and at the option of the Program Chair (President Elect) to annually request approval for a capped monetary allocation to cover select invited speaker(s)' expenses for those presenting at the annual meeting who may be unable to attend without a stipend. These monies are to be used at the discretion of the President Elect / Program Chair.

Proposed Changes to the Aquatic Plant Management Society Bylaws (continued)

- **11. Proposal Review Committee.** This Committee shall be responsible for reviewing and making recommendations to the Board for all externally submitted funding requests / proposals to the Society, 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.
- **12. Regional Chapters Committee.** This committee shall be responsible for promoting and forming regional chapters of the Society. It shall evaluate requests from groups wishing to affiliate with the Society as regional chapters. The committee shall be responsible for enhancing communications and coordination among the regional chapters and the Society. The committee shall be responsible for collecting and displaying information about job opportunities in the field of aquatic plant management. Appropriate information should be made available at the annual meeting and in the Newsletter. The committee shall consist of at least one representative of each recognized regional chapter and include the Vice President of the Society.
- **13. Strategic Planning Committee.** This committee shall be responsible for clarifying the future focus of the Society by providing a framework for decision-making and recommending realignment of resources and establishment of priorities, as needed, in a practical, productive and responsive manner to meet current and future membership needs. This Committee shall consist of no fewer than nine (9) members including the Immediate Past President, the Vice President, Treasurer; the following Committee Chairs: Bylaws & Resolutions, Education & Outreach and Student Affairs; a member of the Publications Committee; plus at least two members-at-large selected for their longstanding support and/or historical perspective of the Society.
- **14. Student Affairs Committee.** This committee should consist of no fewer than four (4) members of the Society. The Chair of the Student Affairs Committee shall also serve as a member of the Scholastic Endowment Committee and the Strategic Planning Committee. The duties of this committee shall be to investigate and promote membership of students into the Society and make recommendations to the Board of Directors as to means of enhancing and encouraging student participation in the Society. Prior to the Annual Business Meeting, this Committee shall provide the Nominating Committee the name of their selected current student member willing to serve on the Board as a Student Director for the up-coming year.



Journal of Aquatic Plant Management Update

Last year, JAPM made the transition from printed and digital publication to solely digital. As most technological changes, there was a learning curve that affected both the editorial and publication processes. Some of the challenges we had to face were related to the different formats in which institutional subscribers (e.g., distributors, libraries, companies) are set to handle access to digital journals. After consulting with multiple institutions, we decided to go with IP-authentication, which has become the standard of the industry. Thus, if you have access to JAPM through your institution, you must go to the journal website and click on the institutional access link (<https://apms.org/journal-access-for-libraries/>). The system will recognize the IP-domain of your institution and will give you full access to the journal.

Now that the digital delivery system is in place, and things are going back to [the new] normal, we will refocus our efforts on increasing our target audience for both readers and authors. Please reach out to us if you have ideas about how to expand the impact of JAPM on aquatic plant management.

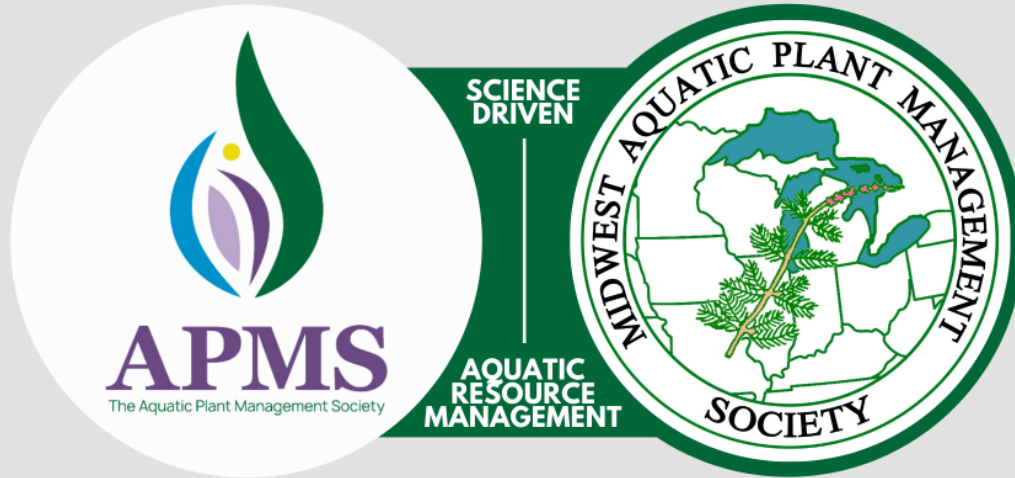




JASM 2022

GRAND RAPIDS, MICHIGAN, MAY 14 - 20

Joint Aquatic Sciences Meeting (JASM 2022)



APMS and MAPMS have combined forces and organized a symposium at the upcoming Joint Aquatic Sciences Meeting (JASM 2022) to be held May 14-20, 2022, in [Grand Rapids, Michigan](#). This symposium includes a series of presentations covering strategies for aquatic plant and algae management, stakeholder engagement, and educational outreach on invasive plants. We have also joined together as a Gold Sponsor which includes exhibit space. Thank you to Dr. Ryan Thum, Dr. Brett Hartis, Matt Johnson, and Dr. Mark Heilman for representing APMS and MAPMS at this meeting. Learn more about this conference by visiting <https://jasm2022.aquaticsocieties.org>.

More information about JASM 2022

The Joint Aquatic Sciences Meeting (JASM) will be the world's largest gathering of aquatic scientists, students, practitioners, resource agency staff, and industry representatives in history. JASM's parent organization, The Consortium of Aquatic Science Societies (CASS), is comprised of 9 groups representing various interests within the aquatic science realm. The JASM 2022 meeting is designed to bring together deep, multidisciplinary subject-matter expertise to collaboratively educate one another and solve the complex environmental problems facing our society and our planet today.

The meeting is organized by the Consortium of Aquatic Science Societies (CASS), which includes:

- American Fisheries Society
- Association for the Sciences of Limnology and Oceanography
- Coastal and Estuarine Research Federation
- Freshwater Mollusk Conservation Society
- International Association for Great Lakes Research
- North American Lake Management Society
- Phycological Society of America
- Society for Freshwater Science
- Society of Wetland Scientists

2022 Calendar of Events for Regional Chapter Meetings & Related Events

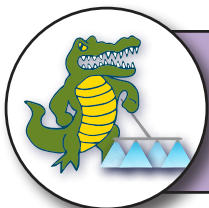


62nd Annual Meeting of the APMS Society

July 18-22, 2022

Hyatt Regency - Greenville, SC

<https://apms.org/2022-annual-meeting/>



UF/IFAS Aquatic Weed Control Short Course

August 22-25, 2022

*DoubleTree by Hilton Orlando at
SeaWorld - Orlando, FL*

<http://sfyl.ifas.ufl.edu/aw/>



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/>

Regional Chapter Updates

FAPMS UPDATE

(Kelli Gladding – University of Florida; Steve Montgomery – Allstate Resource Management)

FAPMS Website: <https://fapms.org>

FAPMS is beginning to prepare for our annual conference in Daytona this year in October. Details: <https://fapms.org/conference/2022-conference/>

Reminder that Aquatics magazine will not be circulated in hard copy to non-members this year. Chapters will receive a digital copy they can circulate to their members electronically. Issues will be posted to the FAPMS website on a two-issue delay.

FAPMS 2022 Scholarship Announcements:

The Paul C. Myers Applicator Dependent Scholarship application due date is quickly approaching and needs to be submitted by June 1st, 2022. This is such a great opportunity for our FAPMS member's children to benefit with a monetary stipend to help support their higher education. With the level of inflation, we are all experiencing in 2022, any financial assistance is a blessing to support our college bound children. Visit the new FAPMS website for details about qualifications and to find the application page: <https://fapms.org/scholarships/scholarship-foundation/>

In addition to the Myers Dependent scholarship, the FAPMS Scholarship Foundation is also accepting applications for the William L. Maier Jr. Memorial Scholarship. This scholarship is designed to help support Graduate students attending a university in Florida with a broad focus on freshwater habitats. The deadline for submission is August 31st, 2022. Please share this information with your family and friends, it's another great opportunity to support conservation management of the next generation for our freshwater aquatic environments.

Since the establishment of the FAPMS Scholarship and Research Foundation in 1986, the FAPMS membership's children have been awarded \$130,650.00, through the Paul C. Myers Applicator Dependent Scholarship. Plus, another \$19,900.00 awarded to graduate students with the William Maier Jr. Memorial Scholarships. The primary mission of the Foundation is to continue to support the members of FAPMS as well as promote academic interest in the field of aquatic plant management. The primary fundraising events are during the FAPMS conference with raffle tickets and duck races. However, you can support the Foundation all year long when you purchase through Amazon. Just simply select the FAPMS Scholarship Foundation through the Amazon smile charity list.

We look forward to receiving many applications over the next couple of months and please contact us if you have any questions.

Sincerely, FAPMS Scholarship Foundation BOD.



Regional Chapter Updates

MAPMS UPDATE

(Garrett McClain – Cygnet Enterprises)

MAPMS Website: <https://www.mapms.org>

MI EGLE ANC has implemented new (2021) restrictions on copper sulfate use in the spring with the basis being protecting fish spawning. The MI industry has supplied numerous studies contradicting their arguments and had a handful of meetings, but appears not much consideration was taken.



it

New copper usage conditions for protection of spawning fish:

As part of its ongoing charge to protect natural resources in lakes, the ANC program has developed a new permit condition for the protection of spawning fish from copper algacides and herbicides. The following two conditions will be included in standard permits and some individual permits:

Due to the toxicity of copper to spawning fish, do not apply copper products within 20 feet of a known, or suspected, active spawning bed.

Except for waterbodies with a total surface area of less than 10 acres and canals and marinas on the Great Lakes and connecting waters, copper treatments for algae, macroalgae, and submersed macrophytes are restricted to chelated copper products during May and June. No more than a cumulative total of 25 percent of the potential spawning area (the area of the waterbody within the 0-10 feet depth contours) may be treated with copper products during May and June. Treatment of starry stonewort with chelated copper may exceed a cumulative total of 25 percent of the potential spawning area. If starry stonewort is treated under this exemption, then treatment of filamentous algae, planktonic algae, and native macroalgae is not allowed during May and June; and treatment of starry stonewort during May and June is restricted to one time only per starry stonewort treatment area. In the event of a harmful algae bloom (HAB) during May or June (documented by positive algal toxin test results, positive identification of HAB species, or other approved EGLE methodology), alternative treatment patterns may be considered by EGLE to protect public health.

In relation to this new condition and because of its relevance to waterbody management, the permit applications for standard and individual permits have a new question to capture an estimate of the surface area of the potential littoral zone (surface acres of a lake that are within the 0-10 feet depth contour). This information will also be required to be submitted as part of treatment reports starting in 2021.

Not much going on in the Midwest of note in terms of new species or successes.

WI DNR has proposed some new rule changes for APM and conducted an economic impact study on these changes. There were a few public comment periods that we participated in. I think there has been some pushback from the regulated community on the validity of their data for the rule changes. I think they are getting close to the stages of implementation.

Draft Rule: <https://dnr.wisconsin.gov/sites/default/files/topic/Rules/WY2919DraftRule2.pdf>

Draft EIA: <https://dnr.wisconsin.gov/sites/default/files/topic/Rules/WY2919FiscalEstimate2.pdf>

Regional Chapter Updates

MSAPMS UPDATE

(Carl Della Torre – Orion Solutions)

MSAPMS Website: <http://www.msapms.org>

MSAPMS planning annual conference Oct. 24-26, 2022 in Mobile, AL.

MSAPMS struggles with student attendance; does APMS (or other chapters) have guidance regarding student recruitment.

New species infestations - Giant Salvinia invaded new site in northern AL, big leaf pondweed becoming problematic in AL power reservoirs.

Metsulfuron-methyl (MSM) has two 24c labels in the southeastern U.S. targeting giant salvinia:

- Cimarron Max Part A labeled in TX, LA, MS, AL, and SC.
- Alligare PRO MSM 60 labeled in TX and LA.



NEAPMS UPDATE

(Will Stevenson – SOLitude Lake Management)

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

The board and members have been talking about the need for more people in the industry at all levels/roles. The market demand for managing waterbodies continues to grow. Factors are many and varied, including climate change and Covid. Most industry folks have noted that more people working at home are paying more attention to their local water. There are not enough contractors to do the work that needs to be done. We need to foster our students and engage more in the profession.

The major news in the NE is hydrilla in the CT River. This will be an all-hands-on-deck effort, once organized, to better understand how best to manage this new strain. CT State was recently able to get an AIS sticker fee established to help raise some funds for AIS management/outreach.

New for NEAPMs was our Winter Webinar Series – Boats are the number one vector for the spread of aquatic invasive species in inland waters and prevention is the best tool for dealing with this spread. Our inaugural webinar series featured an overview of New Jersey Water Supply Authority's efforts to prevent the spread of AIS by building and expanding a watercraft inspection steward program in New Jersey, a social science perspective on interactions with boaters, and a regional approach to AIS education and outreach involving Great Lakes states and Canadian provinces. And the second session highlighted tips for how to create your own spider diagrams to track boater movement among water bodies and assess the risk of aquatic invasive species introductions.

Registration for Plant Camp goes live on May 2, 2022. Join us as we help educate teachers about the threats that invasive plants pose in our lakes and waterways. A preliminary agenda is available at: <https://static1.squarespace.com/static/61efc467da0db26e60cd32cb/t/6228f7a7137a104c237f7285/1646852007885/NEAPMS+Plant+Camp+2022.pdf>



Regional Chapter Updates

SCAPMS UPDATE

(Justin Nawrocki, PhD – UPL)

SCAPMS Website: <http://scapms.org/index.html>

The SCAPMS annual meeting was held in person in Oct 2021 in Myrtle Beach, SC. We had a better-than-expected turnout and enjoyed the chance to meet and exchange ideas and research.

Giant salvinia has become a growing concern in the Southeast, now infesting numerous backwater areas on the Santee Cooper Chain of Lakes. Santee Cooper recently finished construction on their new greenhouse to rear the giant salvinia weevils. Hopefully much success and knowledge will be gained with this endeavor.



TAPMS UPDATE

(Brittany Chesser – Texas A&M Extension)

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

2021 Annual Meeting Attendance = 74

2022 Annual Meeting will be held in person November 7-9, 2022, at the Embassy Suites by Hilton in San Marcos, TX

Student Scholarship has been renamed in memory of David Allen Bass, a former BOD and member

Triploid grass carp updates (more information explained in the 10/21 newsletter avail at <http://www.tapms.org/wp-content/uploads/2021/10/On-the-Water-Newsletter-fall-2021.pdf>)

- Newsletter URL: <https://www.tapms.org/newsletter/>
- Triploid Grass Carp Stocking Permits Period of Validity
- Transfer of Triploid Grass Carp with Property Sale/Transfer

This year hoping to focus on increasing membership and the communicating the benefits that come with membership (i.e., professional development webinars/workshops and other activities).

WAPMS UPDATE

(Tom Warmuth – Biosafe Systems)

WAPMS Website: wapms.org

Just conducted 2022 annual conference in Tucson, AZ (March 7-11).

Follow us on social media on Twitter, Facebook, Instagram, and LinkedIn for updates, information, and meeting details.



Science Policy Report



March, 2022
By, Lee Van Wychen

Congress Finalizes FY 2022 Appropriations

Nearly 6 months overdue, the House and Senate passed a much-awaited FY 2022 omnibus spending package on March 9 and March 10, respectively. President Biden signed the Consolidated Appropriations Act of 2022 (H.R. 2471) into law on March 15. The \$1.5 trillion legislative package combines all twelve FY 2022 appropriations bills and includes \$13.6 billion in military and humanitarian aid for Ukraine.

For aquatic plant management in FY 2022, the Army Corps of Engineers received \$8 million for its Aquatic Plant Control Research program, its second \$1 million increase in a row. Of the \$8 million, \$1 million is designated for activities for monitoring, surveys, and control of **flowering rush** and **hydrilla** and \$7 million is for nationwide research and development to address invasive aquatic plants. The appropriations language also encourages the Army Corps to support cost-shared aquatic plant management programs, and in particular, to evaluate and address prevention of new infestations of **hydrilla** in the Connecticut River Basin.

Overall funding for the Department of the Interior (DOI) increased \$776 million to \$14.1 billion in FY 2022, with \$1.4 billion (+8 percent) directed to the Bureau of Land Management (BLM); \$3.3 billion (+5 percent) to the National Park Service (NPS); \$1.65 billion (+4 percent) to the Fish and Wildlife Service (FWS), and \$1.4 billion (+6 percent) to the US Geological Survey (USGS), which includes at least \$2.75 million for research on **harmful algal blooms**.

Within specific DOI programs important for invasive species management, BLM's Rangeland Management account received a \$3 million increase to \$109 million after being held level in FY 2021. The FWS's Wildlife and Habitat Management account under its National Wildlife Refuge System received a \$10 million increase to \$250 million in FY 2022. The appropriation language directs \$15.9 million from this account to focus on high priority invasive species including nutria, **buffelgrass**, and **cheatgrass**. In addition, this account helps fund the FWS's invasive species strike teams. Finally, the National Park Service's (NPS) Resource Stewardship account received a \$20 million increase to \$382 million, which helps fund the NPS's invasive plant management teams.

For FY 2022, USDA-ARS funding increased \$141 million to \$1.63 billion while USDA-NIFA funding increased \$67 million to \$1.64 billion. The Agriculture and Food Research Initiative (AFRI) competitive grants program increased by \$10 million for the fourth year in a row to \$445 million in FY 2022. Noteworthy highlights include a \$5 million increase in **Smith Lever** funding for Extension and a \$2.5 million increase for the **IR-4 Minor Crop Pest Management** program, its first increase in over a decade. Every dollar invested in the IR-4 Project generates \$524 in economic activity for the US.

There is also language in the FY 2022 omnibus that supports the creation of a regionally focused **Herbicide Resistance Initiative** for the Pacific Northwest to identify and overcome herbicide resistance associated with the crop production pathway, reducing production losses and reducing or eliminating pressure on trade limits due to contamination. It directs \$2 million to support research to address weed management strongly affecting the long-term economic sustainability of food systems in collaboration with ARS, research institutions, and stakeholder support.

The table below includes final appropriations for FY 2019 – FY 2022 for various Federal programs important to weed and invasive plant research and management in terrestrial and aquatic ecosystems.

Science Policy Report



[Continued]

	FY 2019	FY 2020	FY 2021	FY 2022
	-----\$ millions-----			
Army Corps- Aquatic Plant Control research	\$6	\$6	\$7	\$8
EPA - Great Lakes Restoration Initiative	\$300	\$320	\$330	\$348
NOAA - National Sea Grant College Program	\$68	\$74	\$75	\$76
DOI - BLM: Rangeland Management	\$104	\$106	\$106	\$109
DOI - FWS: National Wildlife Refuge System: Wildlife and Habitat Management	\$234	\$239	\$240	\$250
DOI - NPS: Resource Stewardship	\$334	\$342	\$362	\$382
DOI - Wildland Fire: Fuels Management	\$189	\$194	\$220	\$227
USDA-ARS	\$1,303	\$1,414	\$1,492	\$1,633
USDA-NIFA	\$1,471	\$1,527	\$1,570	\$1,637
-AFRI Competitive Grants	\$415	\$425	\$435	\$445
-Hatch Act (Exp. stations)	\$259	\$259	\$259	\$260
-Smith Lever (Extension)	\$315	\$315	\$315	\$320
-IR-4 Program	\$12	\$12	\$12	\$14.5
-Crop Protection and Pest Management	\$20	\$20	\$20	\$20
-SARE: Sustainable Ag Research & Educ.	\$37	\$37	\$40	\$45
-McIntire-Stennis Forestry Research	\$36	\$36	\$36	\$36
USDA-APHIS: Cogongrass eradication	n/a	n/a	\$3	\$3

EPA Announces Endangered Species Act Protection Policy for New Pesticides

On January 11, 2022, the EPA announced that, effective immediately, the Agency’s review of applications for new pesticide active ingredients (AI) pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) will uniformly incorporate analysis under the Endangered Species Act (ESA) with the intention of prioritizing protection for listed species as much as possible. The new policy applies to AI applications already submitted for consideration as well as incoming applications. [EPA press release](#).

Prior to this policy change, EPA has not uniformly required ESA analysis for all applications for new AIs, which often resulted in litigation against EPA. EPA expects the new policy to reduce litigation in general and improve the overall legal defensibility of new AI registrations.

EPA has explained that it intends to provide several mitigation options to allow the greatest flexibility for pesticide users while still ensuring protections for listed species. Mitigation efforts often include measures intended to avoid or minimize exposure routes between where pesticides are used and where the species live, restrict the geographic or temporal scope of pesticide applications, and reduce the number of pesticide applications allowed on a treated site.

To learn more about EPA’s Endangered Species Act Protection Policy for New Pesticides, please see the [Q&A document](#).

Science Policy Report



[Continued]

EPA Updates Endangered Species Protection Bulletins

The EPA has released an improved version of Bulletins Live! Two (BLT), an online application for Endangered Species Protection Bulletins. BLT describes geographically specific pesticide use limitations to protect threatened and endangered species and their designated critical habitat.

Pesticide applicators are required to reference the Bulletins Live! Two (BLT) website (<https://www.epa.gov/endangered-species/bulletins-live-two-view-bulletins>) when directed by a product label. If the pesticide label directs you to this website, you are required to follow the pesticide use limitations(s) found in the Bulletin for your intended application area, pesticide active ingredient or product and application month.

EPA's Bulletins contain the following information:

- A map of the user-defined intended application area.
- The user-selected active ingredient and/or pesticide product to be applied.
- Pesticide use limitations(s).
- The month for which the Bulletin is valid.

Important Notes about Bulletins:

- Bulletins may be accessed up to six months before pesticide application. Be sure that you follow the correct Bulletin for the month of your pesticide application.
- When referenced on a pesticide label, Bulletins are enforceable use limitations under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).
- The pesticide use limitations found in Bulletins Live! Two are part of EPA's federal program to protect listed species. Your state may have pesticide use limitations beyond those found in your Bulletin. Bulletins are not intended to replace or override any restrictions that your state may impose. You need to be aware of and follow pesticide limitations according to both the state AND federal requirements.

For more information: <https://www.epa.gov/endangered-species/endangered-species-protection-bulletins>

Vilsack Announces 10-Year Strategy to Confront Wildfire Crisis

In response to the nation's growing wildfire crisis, USDA Secretary Vilsack and Forest Service Chief Moore have launched a strategy to address the threat to millions of acres and communities across the nation. The strategy will first target areas defined as being at the highest risk based on community exposure, including the Pacific Northwest, the Sierra Nevada Range in California, the front range of Colorado, and the Southwest. The plan highlights the importance of collaboration with the Department of Interior, Tribes, states, local communities, and private landowners to effectively address the crisis. For more information, click [here](#).

Meetings of the National and Regional Weed Science Societies

- Jul. 18 - 21, 2022 Aquatic Plant Management Society (APMS), Greenville, SC www.apms.org
- 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.wsweedsociety.org

Science Policy Report



[Continued]

Wilkes Confirmed as USDA Undersecretary for Natural Resources and Environment



Homer Wilkes was sworn in on Feb. 11, 2022 to serve as Undersecretary for Natural Resources and Environment at USDA. His nomination was confirmed by the Senate by a voice vote. Wilkes is expected to work closely between USDA NRCS and the Forest Service on land restoration projects, including the 10-year wildfire mitigation plan.

Wilkes is a native of Port Gibson, Mississippi. He earned a B.S. in business finance, an M.B.A. and Ph.D. in urban higher education from Jackson State University. From 1984 to 2007, Wilkes served as a supply officer in the United States Navy Reserve. During his career, Wilkes has served within the NRCS as acting CFO, acting associate agency chief, and as Mississippi's state conservationist. Since 2013, Wilkes has worked as the director of the Gulf Coast Ecosystem Restoration Task Force.

Williams Confirmed as USFWS Director



On February 17, 2022, the U.S. Senate confirmed Martha Williams by voice vote to serve as the next Director of the U.S. Fish and Wildlife Service (USFWS), a position that has been vacant since January 2021. Williams has been leading the agency since January as Principal Deputy Director. Prior to that Williams served as Director of the Montana Department of Fish, Wildlife and Parks from 2017 to 2020. She previously served as an Assistant Professor of Law at the Blewett School of Law at the University of Montana and co-directed the university's Land Use and Natural Resources Clinic. Williams earned her bachelor's degree from the University of Virginia and her Juris Doctor degree from the University of Montana School of Law.

2022 National Invasive Species Awareness Week (NISAW) Highlights CT River Hydrilla

National Invasive Species Awareness Week was February 28 – March 4, 2022. Educational invasive species webinars were presented for: USGS Decision Science – Modeling and Structured Decision Making; Climate Change and Invasive Species; Protect the Uninfested West from Aquatic Invasive Species; Pacific Green Crab Management; and Firewood Rules, Certifications, and Recommendations across the USA. More info at: www.nisaw.org

There was also a Congressional briefing titled “**Managing the Hydrilla River Infestation in the Connecticut River.**” Many thanks to Mark Heilman for his work on coordinating this. The Connecticut River is a critical water resource in the northeastern US with unique habitats and wildlife impacted by an aggressive invasion of a novel biotype of the submersed exotic aquatic plant, *Hydrilla verticillata*.

Hydrilla is on the Federal Noxious Weed List and is considered the worst aquatic invasive plant in the US. The extensive (70+ mile) hydrilla infestation in the Connecticut River poses a serious risk to other waterways in the Northeast and especially the Great Lakes. Initial federal funding proposals (Sen. Blumenthal – CT) to contain the hydrilla infestation and work towards restoration of the river call for \$25 million annually for four years through the US Army Corps of Engineers Aquatic Plant Control Program, the nation's only federally authorized program for the research and development of effective, science-based strategies to manage invasive aquatic weeds.

Presentations were given by: Ian Pflingsten, US Geological Survey and Co-Chair of NE Aquatic Nuisance Species Panel; Judy Preston, Connecticut Sea Grant; and Dr. Rob Richardson - NC State University and Past President of APMS. Their presentations highlighted the local impacts of the infestation on the ecology and uses of the river, risks of regional and national spread, and integrated management options to contain the hydrilla invasion and work towards restoration.

Sustaining Members

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*, *APMS newsletters*, and access to the *APMS Blog* and social media content; quarterly issues of *Aquatics* magazine; recognition as a Sustaining Member in newsletters, the Annual Meeting Program, and on the APMS website.

Thank you all for your support in 2022!



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!