



Organized in 1961 as a forum to share water hyacinth control experiences, today APMS promotes research, monitoring and outreach to manage all species of aquatic plants and algae.

With the unveiling of the new APMS logo above, below are reminders of APMS logos and images that have appeared through the years.



Aquatic Plant News

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Jeffrey D. Schardt, Newsletter Editor

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Message from President Mark Heilman

My fellow APMS Members:

Although it has earlier and somewhat disputed origins, the saying 'May you live in interesting times' was cited by Sen. Robert Kennedy during a speech in 1966 in South Africa. Senator Kennedy concluded that 'Like it or not, we live in interesting times.' Well, I conclude the same. Perhaps all times are interesting...they prob-



Dr. Mark Heilman

ably are. But with divisive national and global politics, altered human and societal interactions using powerful Internet-based communication tools, and surrounded by ever-growing signs of our impact on the natural world, we live...and work on aquatic resources...in interesting times. These times and their challenges represent an opportunity for the Aquatic Plant Management Society to collectively assess and implement our vision for this Society to fulfill its important mission. In 2017, Society leaders strategically refined

the APMS vision and mission statements as follows:

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

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

With the noise and distraction around us politically and socially, it is critical to maintain focus on these strong, clear statements and take steps as a Society and individually as members to promote these objectives. At their core, these statements focus on how APMS leads and fosters science related to the man-

Inside this Issue:

- 1 President's Address
- 3 New Look APMS Logo
- 4 APMS Social Media Presence
- 5 In Remembrance of David Paul Tarver
- 6 2019 APMS Award Presentations
- 11 Annual Meeting Sponsors & Contributors
- 12 Photos from the Annual Meeting
- 14 2020 Michael D. Netherland Graduate Student Research Grant Announcement
- 15 Plan for the 2020 Annual Meeting
- 16 EPA High School Algal Video Challenge
- 17 APMS Sustaining Members
APMS Chapter and Related Meetings
- 18 APMS Officers, Directors, Committee
Chairs, Special Representatives
- 19 APMS Background, Vision and Mission
Join / Renew Membership

continued next page

Message from President Heilman *(continued from page 1)*

agement of aquatic plants and algae. APMS does that through three primary efforts: our annual meeting, the Journal of Aquatic Plant Management, and our funding of graduate student research. In July in San Diego, we successfully held our 59th annual meeting in partnership with our Western APMS colleagues. The meeting included a rich program of technical presentations, and many thanks to APMS scientists—including a stellar group of student presenters—who contributed papers and posters. It also included a stirring retrospective on the technical contributions and character of our greatly missed colleague and friend, Dr. Mike Netherland. No scientist or Society member did more in the recent history of APMS to foster the Society's vision and mission than Mike Netherland. In recognition of that fact, we announced in San Diego the renaming of our important grant program as the Michael D. Netherland APMS Graduate Student Research Grant (GSRG). Presently, we offer the Netherland APMS GSRG every other year. I challenge us as a Society to secure the financial resources to fund the grant annually as soon as possible in honor of Dr. Netherland. The APMS Board of Directors will be working hard on this initiative.

The Journal of Aquatic Plant Management (JAPM) is another critical piece our Society's success. It gives us a mechanism to efficiently review and publish science directly relevant to the management of aquatic plants and algae. Without it, we risk disappearing into the background of other more general scientific efforts related to aquatic resource management. However, our small field has seen attrition of government and academic research focus through retirements and other changes that challenges several aspects of fulfilling our Society objectives including publication of JAPM. This systemic issue merits a vigorous effort to promote new academic positions and sustain/grow/improve existing research efforts such as the Corps' Aquatic Plant Control Research Program.

At the national and regional level, our APM Societies must look for effective mechanisms to educate effectively about the need for scientific research. Addressing the challenges of harmful algal blooms (HAB) has become a crisis need for water resource management

and as APMS has officially recognized algae management as part of its mission, this is an area to promote aggressively to enhance scholarship for the benefit our discipline and aquatic ecosystems. Relative to HAB, APMS will build upon efforts from a few years ago lead by Mike Netherland and others to reach out to other aquatic scientific societies such as the North American Lake Management Society (NALMS) to promote effective partnership. The HAB crisis is bigger than anything one Society or group can tackle so partnership is critical to work towards improved, comprehensive water quality management.

All members should also examine closely how their efforts and personal networks may present an opportunity to promote the value of our science to universities and other entities that may support new academic and other dedicated research efforts. If we do not promote science, we see clearly from recent events in Florida and the controversy around glyphosate that non-scientific information may dominate public awareness with detrimental outcomes.

On that last point, as part of its current strategic plan, APMS has committed to improving its marketing and outreach to potential members but also the wider world. For a number of years, our social media activities were dormant but recently the Society committed to re-engaging in this dominant mechanism for public information exchange. There are many perspectives on the pros and cons of social media—some of which will be discussed later in the newsletter—but going back to the beginning of my comments, 'like it or not', social media is a major driver in how the public receives information.

Short, media communications from tweets to 2-min videos obviously cannot capture the full technical information of peer-reviewed publications but we are seeing that they can strongly impact management decisions. Therefore, APMS has re-engaged in the social media world to foster sound science as it can amidst the noise of the online world. In a recent meeting I attended, it was noted that a 2-minute YouTube video developed as public outreach about an

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Message from President Heilman *(continued from page 2)*

ongoing field development initiative had as much impact with upper-level decision makers as 40 recent technical communications. While this is sobering in some respects relative to wider perceptions of science, it reflects the fast-moving information overload of today's world, and education and outreach efforts should create memorable, concise content to transfer sound information with hopes that it promotes readers/viewers to dig a little deeper to find the full story and the latest science. To help catch attention and confirm visually that APMS is an evolving society working hard to meet modern management needs for aquatic resource management needs, the APMS Board has developed a new logo for the Society. Through its colors and shapes, it pays homage to the historical roots of APMS as the Hyacinth Control Society while updating to a simpler, cleaner look. Hopefully, a majority of our members like the change...it is not possible to create something that matches everyone's expectations...but at the least, it brings this visual marketing of APMS into the 21st century.

A final initiative for APMS in the near future will focus on better collaboration with our regional chapters to increase synergies and efficiencies in a variety of

ways. Each Society has somewhat different objectives, goals, member interests, and regional needs. However, the basic structure of member registration, meeting organization, and other routine tasks is very similar, but each Society has different approaches that create great redundancy that pulls energy of volunteer members away from more strategic efforts. Based on feedback from this year's Regional Chapter luncheon at the San Diego conference, APMS will start a conversation with the regional chapters about how to create better interaction and more efficiencies. I roughly calculate that across all our Societies, we have well in excess of 1,000 individual members (accounting approximately for folks who are members in multiple Societies). That is a large group in technical circles and we should maximize the strength of our combined efforts.

In conclusion, I would like to thank you for all you do as an APMS member to help manage our aquatic resources and promote science in this discipline. Your efforts are critical and we as a Society must work together effectively to adapt and improve our science, management, education, and outreach to meet the growing changes of today's 'interesting times'.

APMS Unveils New Look Logo

Since our founding as the Hyacinth Control Society in 1961, APMS has been represented by the same logo featuring a flowering water hyacinth. This logo served us well, but after almost 60 years, the APMS board believed the logo was ready for modernization – and in a format compatible with applications from printed documents and banners to apparel.

Change is difficult. Longtime APMS members may be attached to the original logo and the connection to the history of water hyacinth control. As you may imagine, the process was painful, but the Board felt strongly that APMS needed a fresh style. The best logos today are versatile and adaptable – think Nike, Facebook, or Apple.



Simplicity is key. A new logo needs to work in different contexts and be instantly recognizable. Whether it is large or small, black and white or full color, you should be able to immediately understand what it is.

The APMS Board sought input to develop, and approved a look that is crisp, approachable, smart, friendly and aquatic. The design goal is to represent the broader aquatic plant and algae management issues that are now embraced by the Society's evolving mission and vision. We believe the new logo maintains a connection with our roots as the Hyacinth Control Society, while providing a clean, modern look of our multi-disciplinary mission.



APMS Social Media Outreach

#FOMO? #FollowAPMS

Love it or hate it, social media is part of our everyday lives. It's how we connect with friends, share news and learn about issues. People often turn to or even rely on social media for information and advice about everything from politics to airport delays.

Why should APMS care? We need to make science-based information about aquatic plant management accessible to differing audiences across the country. Most people from outside our industry will not take the time to read or review a scientific paper. We need to explain the importance of what aquatic plant managers do and why we do it in a concise and easy to understand way.



Social media provides APMS with an approachable platform to explain complex issues and direct followers to credible places to learn more about aquatic plant management.

Given the importance of providing timely science-based information, the APMS Board needs a qualified, dedicated "point person" to maintain our social media content. The APMS Board has entered into a contract for social media services. We are pleased to announce that Amy Giannotti will be serving as the APMS Social Media Manager.

Ms. Giannotti graduated from the University of Virginia in 1999 with a master's degree in environmental science/marine ecology. She has more than 20

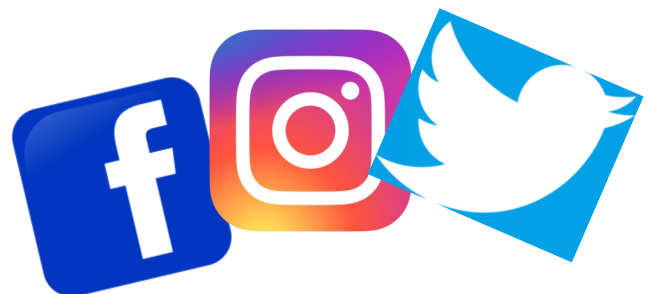
years of aquatic plant and aquatic resource management experience with the Florida Park Service, Florida Department of Environmental Protection and Fish and Wildlife Conservation Commission's Invasive Plant Management Sections and the City of Winter Park (FL) Lakes Division.

APMS will strive to provide fair and balanced information to our followers. Ms. Giannotti will be managing our accounts on Facebook, Instagram and Twitter. She will work with APMS members and the regional chapters to generate content and increase engagement from members and the public. Dr. John Madsen will continue to maintain our presence on LinkedIn.

We realize that some followers may have concerns about aquatic plant management practices. We will work to respond to questions and comments in a constructive way and hope we can better understand all perspectives.

If you have not already done so, please engage with us on the social media channel(s) of your choice. Content will vary slightly between four channels, so be sure to follow us everywhere you engage. We will also be working to better network and partner with the regional chapters through these platforms.

Look for regular posts on aquatic plant and algae identification, monitoring, management and control. We will also keep you up-to-date on upcoming meetings and relevant current events. Social media is meant to be interactive, so please don't hesitate to follow us back, tag us, ask questions, provide feedback or slide into our DMs.



In Remembrance of David Paul Tarver - February 16, 1951 – October 2, 2019



Weeds” workbook distributed to more than a half million students. For his many years of service to aquatic resource management, APMS bestowed Honorary Membership to David in 2012.

For more than four decades, David Tarver personified innovation and customer service – both with regulatory agencies and the private sector, spending countless hours on Florida lakes and elsewhere in the country; assessing problems and creating management solutions, then passing that information to managers and stakeholders. Few have shown David’s relentless passion to improve the science and management of invasive aquatic plants or had such positive impacts restoring and maintaining the uses and functions of lakes and rivers as David Tarver.

David Paul Tarver, age 68, of Tallahassee Florida, passed away October 2, 2019 after a lengthy battle with cancer. Many knew him as David, others knew him as Paul.

David joined the Aquatic Plant Management Society (APMS) in 1973 after graduating from Northwestern State University in Louisiana with a BS degree in Wildlife Management. He received a master’s degree in Botany from NSU in 1974 and joined the Florida Department of Natural Resources where he provided aquatic plant management extension services and law enforcement duties while serving as the Northwest Florida regional biologist.

David was hired by Eli Lilly and Dow to work in Sonar herbicide product development from 1981-1994, and SePRO from 1995-2011 to become Director of Technical Development. During this period, David was a leader in developing strategies to apply fluridone herbicide alone and in combination with other tools to bring hydrilla under maintenance control in Florida public lakes and rivers.

He served on the FAPMS Board of Directors from 1983-1987 and the APMS Board from 1995-2003. David was the publisher of Aquatics magazine from 1985-2009. He worked in APMS Education and Outreach where he co-authored the “Understanding Invasive Aquatic

David Paul was a devoted husband, father, and grandfather. He loved, protected, and cherished his family above all else. Paul married his high school sweetheart, Debra Gallien in 1973. Together, they shared a lifetime of experiences including traveling, raising two boys and loving their precious grandchildren. He shared his vast knowledge of science with his grandchildren through countless hours helping them with homework and teaching them how to study. Paul shared his passion and skills as an Eagle Scout and Boy Scout volunteer with his two sons, Dusty, Josh, and many of their friends. He supported their endeavors in sports, hunting and fishing, and taught them to value education and have respect for our country.

He was preceded in death by his father Lee Tarver, mother Lucille Pope Tarver, and daughter-in-law, Elizabeth Marie Evans Tarver. He is survived in his immediate family by his wife of 46 years Debra Gallien Tarver, son Dustin and wife Selena; grandchildren Presley Tarver and Bristol Tarver, and Sterling Moon, Asher Moon, and Luciano Moon, and son Josh and grandson, Colby.

Donations can be made to:

University of Florida Health Shands Cancer Hospital
1515 Southwest Archer Road
Gainesville, FL 32608.

APMS Honors Aquatic Plant Managers during the 2019 Annual Meeting

More than 200 members and guests attended the 59th Annual Meeting of the Aquatic Plant Management Society at the DoubleTree Mission Valley Hotel, San Diego, California on July 14-17, 2019. This was a joint meeting with the Western Aquatic Plant Management Society that celebrated the 38th annual gathering of its members.

The meeting was dedicated to long-time APMS member and Meeting Planning Committee Chair Tommy Bowen (right) who passed away October 8, 2018.



The Monday morning session included a special tribute to the life and technical impact on aquatic plant management of Dr. Mike Netherland who passed on October 16, 2018. Dr. Mark Heilman, then APMS President Elect, and 2019 Program Chair began the tribute with the following remarks.

Thank you for attending this special session. For the next hour, we will remember the technical accomplishments and unique character of our friend and colleague, Dr. Mike Netherland. While his family and his friends all miss Mike terribly since his passing last October, we here recall with deep joy our collaboration and friendship.

Mike had unrivaled passion for the science and practice of aquatic plant management. He trained under some of our discipline's most productive scientists. He worked in government research, academia, and private industry—providing him a great perspective on partnership and joint success. He studied all aspects of aquatic plant management including diverse collaborations examining basic biology, ecology, and genetics. He published high-impact applied studies including numerous papers in the Journal of Aquatic Plant Management. He was a phenomenal technical resource to public agencies and private management firms around the U.S. and the world. His support and related research led to adoption of many new herbicide use patterns that fundamentally improved control practices in all types of aquatic systems. He directly advised graduate students at the University of Florida, participated on numerous other student advisory committees around the country, and was a mentor for countless young scientists—including me and several of us speaking this morning. He served as President for APMS and Florida APMS. Beyond and above all of that, he was son, husband, father, and great friend.



Today, a small group representing his many friends and colleagues will take on the challenge of summarizing Mike's career and unparalleled contributions. For those who knew Mike, this will be an emotional hour but one that helps us appreciate even more what he accomplished and recall the great memories of knowing and working with him. For those here who did not know Dr. Netherland, we hope that you capture a good sense of Mike's scientific contributions and personality. For all here, please thoughtfully consider how Mike's example may call you to greater commitment to this discipline, to our Societies, and to the critical work we do to improve our aquatic resources. We will end this morning with a special announcement in recognition of Mike's contributions to APMS.

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2019 APMS Award Presentations *(continued from page 5)*

The feature social event during the APMS Annual Meeting is the Tuesday evening Awards Banquet. APMS honors long-term achievements in aquatic plant and algae management as well as ongoing and recently completed research. Following are award recipients for 2019.

Student Presentations

APMS sponsors oral and poster competitions in which graduate and PhD-candidate students present current research. There were 19 student papers (13 oral and 6 poster) in the competition presented by 17 different students representing eight universities.



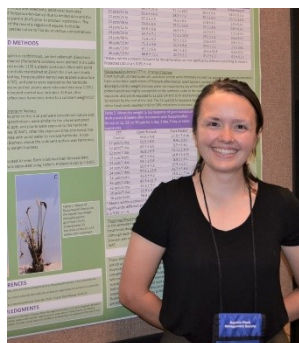
Student Presenters at the 2019 APMS Annual Meeting

Cash awards are presented for first (\$300), second (\$200), and third (\$100) place in each presentation category. Mirella Ortiz from Colorado State University placed first in the Student Oral Presentations with her project: *2,4-D Amine and 2,4-D Butoxyethyl Ester Behavior in Eurasian and Hybrid Watermilfoil*. Kaitlyn Quincy and Jonathan Glueckert, both from the University of Florida, placed second and third, respectively.



Sam Sardes (left) presents the 1st Place Student Oral Presentation check to Mirella Ortiz (right)

Rachel Watson of Louisiana State University placed first in the Student Poster competition with her project entitled: *Florpyrauxifenzyl Impact on Non-target Emergent Aquatic Plants under Various Concentration Exposure Time Scenarios*. Tyler Geer of Clemson University and Emily Vulgamore of North Carolina State Uni-



Rachel Watson from LSU

versity placed second and third, respectively.

Outstanding Graduate Student Award

Tyler Geer of Clemson University received the Outstanding Graduate Student Award for his commitment and dedication in pursuit of his doctoral degree. His development as a scientist and a leader is evident, and Tyler Geer is already considered a colleague by many seasoned researchers.



Jay Ferrell (left) presents the Outstanding Graduate Student Award to Tyler Geer (right)

APMS Student Director



Jens Beets from North Carolina State University was voted by his peers to serve a one-year term as Student Director on the APMS Board of Directors for 2019-2020. The Student Director represents student issues and is a full voting member on the APMS Board.

continued next page

2019 APMS Award Presentations *(continued from page 6)*

Outstanding Research / Technical Contribution

Dr. John Madsen of the USDA Agriculture Research Service in Davis, California received the 2019 Outstanding Research / Technical Contribution Award. Dr. Madsen is honored for his long-term work on the biology, ecology, and management of Eurasian watermilfoil and his ability to communicate this information to



Dr. John Madsen (right) receives the Outstanding Research / Technical Contribution Award from Dr. Kurt Getsinger (left)

plant managers. He is also recognized for his scientific publication record, commitment to aquatics and encouraging graduate students to participate in the field of aquatic plant management.

Outstanding Journal Article

The Outstanding Journal Article Award is presented to an author (and co-authors), recognizing research published in the *Journal of Aquatic Plant Management* during the previous year that is unique and will further the science of aquatic plant management. The APMS Editor and Associate Editors vote on this award.

A paper by Alyssa J. Calomeni, Ciera M. Kinley, Tyler D. Geer, Maas Hendrikse, and Dr. John H. Rodgers Jr. from Clemson University was voted best article for 2018: *Lyngbya wollei* responses to copper algaecide exposures predicted using a concentration-exposure time (CET) model: Influence of initial biomass (*Journal of Aquatic Plant Management* Vol. 56:73-83).



Jay Ferrell (left) presents the Outstanding Journal Article Award to Alyssa Calomeni of Clemson University (right)

Max McCowen Friendship Award

Mr. William Ratajczyk of Applied Biochemists, Reedsburg, Wisconsin, received the 2019 Max McCowen Friendship Award. 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, and positive attitude. Bill has over 30 years of experience in algae management and continues to serve as a mentor and role model to numerous people in this industry. His long-term commitment to the Aquatic Plant Management Society and Midwest APMS has been steadfast and his opinions are highly valued.



Mr. Bill Ratajczyk (photo from the 2016 APMS Annual Meeting)

T. Wayne Miller Distinguished Service Award

Dr. Rob Richardson of the North Carolina State University received the 2019 T. Wayne Miller Distinguished Service Award, presented to an individual to recognize "Service to the Society and the Profession." Dr. Richardson has been an APMS member since 2005, serving on the Board as Editor and as President (2016). He is also the APMS liaison for the Weed Science Society of America. He is a recognized leader and frequent advocate for science-based aquatic plant management and has always been an effective ambassador for the Aquatic Plant Management Society.



Dr. Jay Ferrell (left) presents the T. Wayne Miller Distinguished Service award to Dr. Rob Richardson (right)

continued next page

2019 APMS Award Presentations *(continued from page 7)*

President's Award

Two President's Awards were presented in 2019. As a 20-year APMS member, Gerald Adrian is recognized for his exceptional dedication and support of the aquatic plant management industry. Serving as the APMS liaison with the Bass Anglers Sportsman's Society, (BASS) he has established a working relationship among fishermen, conservationists, and aquatic plant managers and has been instrumental in increasing understanding of the importance of aquatic plant management.



President Craig Aguillard (left) presents the APMS President's Award to Gerald Adrian (right)

Eric Barkemeyer is recognized for many years of dedication and support to aquatics and the Aquatic Plant Management Society. Eric has been a member of APMS since 1984. His professionalism while serving on the Board and as APMS President (2005), and exceptional encouragement to members throughout his years of service has developed leaders in every aspect of the aquatics industry.



President Craig Aguillard (left) presents the APMS President's Award to Eric Barkemeyer (right)

Honorary Membership

APMS Honorary Membership is presented to persons who are retired, have been voting members of the Society for at least ten years, and have provided significant contributions to APMS or to the field of aquatic vegetation management. Thirty-five Honorary Memberships have been issued during the Society's 59 years.

Honorary APMS Membership was granted to Mr. Eric Barkemeyer in 2019. For four decades, Eric served the national and regional aquatic plant management societies and the industry with professionalism and a cheerful attitude. He has served on the Boards of the South Carolina and the Mid-South regional APMS chapters as well as the national Aquatic Plant Management Society, and as President of both MidSouth APMS (2004) and the national APMS (2005).



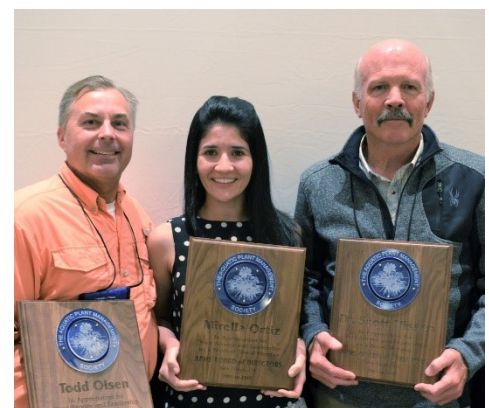
Eric Barkemeyer (left) receives Honorary Membership from John Madsen (right)

Other Presentations

Other acknowledgements given during the evening were Outstanding Non-Student Poster, presented to Erika Haug of the North Carolina State University, and Exhibitor Excellence, presented to Keeton Industries of Wellington, Colorado.

Outgoing Directors and the New Board

Outgoing Directors Dr. Scott Nissen of Colorado State University and Mr. Todd Olson of Aquatic Vegetation Control, Inc., Riviera Beach, Florida were recognized for their three-year service on the APMS Board. Outgoing Student Director, Mirella Ortiz of Colorado State University was also congratulated for her service on the Board during 2018-2019.



Outgoing Directors Todd Olson (left), Mirella Ortiz (center) and Scott Nissen (right)

continued next page

2019 APMS Award Presentations *(continued from page 8)*

2019-2020 APMS Board of Directors

The APMS Awards Program culminated with President Craig Aguillard of Winfield United, Villa Platte, Louisiana (right) transferring the ceremonial gavel to incoming President, Dr. Mark Heilman of SePRO Corporation, Carmel, Indiana (left) and introducing the 2019-2020 APMS Board of Directors.



2019-2020 APMS Board of Directors (left to right below): Secretary Jeff Schardt, Director Lyn Gettys, Editor Jay Ferrell, Student Director Jens Beets, Vice President Ryan Thum, Director Marc Bellaud, Treasurer Jeremy Slade, Director Chris Mudge, Director Debra Hofstra, Director Amy Kay, Immediate Past president Craig Aguillard, and President Mark Heilman. Missing are Director Amy Ferriter and Vice President Ryan Wersal.



WAPMS President Andrea Sealock and APMS President Craig Aguillard (below) adjourned the Awards Banquet.

WAPMS Board of Directors (left to right above) Director Rick Purcell, CEU Coordinator Carolyn Rutan, Past President Andrea Sealock, Director Ajay Jones, President Tom Warmuth, Vice President Cory Greer, Treasurer Toni Pennington, Secretary Andrew Skibo, Not pictured are Director Paul Pratt and Director Juraj Juricevic.



2019 Annual Meeting Sponsors

The APMS Annual Meeting would be impossible without the generous contributions of the Meeting Sponsors. We sincerely thank the following Platinum, Gold, Silver, and Bronze Level Sponsors and Contributors for supporting the 2019 Annual Meeting in San Diego, California.

Platinum Level



UPL NA Inc.
King of Prussia, Pennsylvania

Gold Level



Applied Biochemists
Phoenix, Arizona



Syngenta
Greensboro, North Carolina

Silver Level



Alligare, LLC
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Winfield United
Ville Platte, Louisiana



Helena Chemical Company
Tampa, Florida

Bronze Level



Brewer International
Vero Beach, Florida



SePRO
Carmel, Indiana



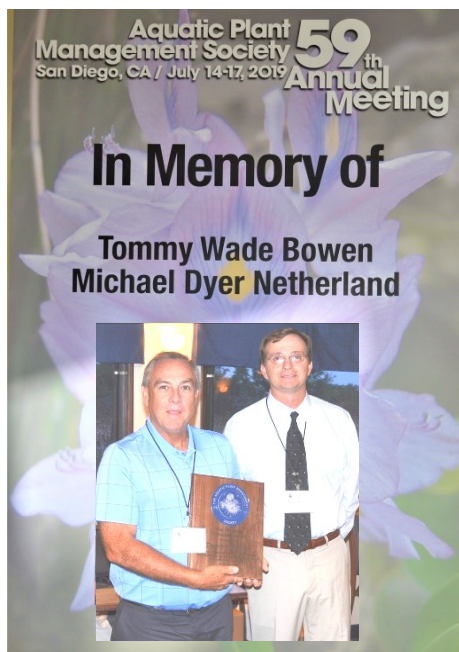
Nutrien Solutions
Oviedo, Florida

Contributors

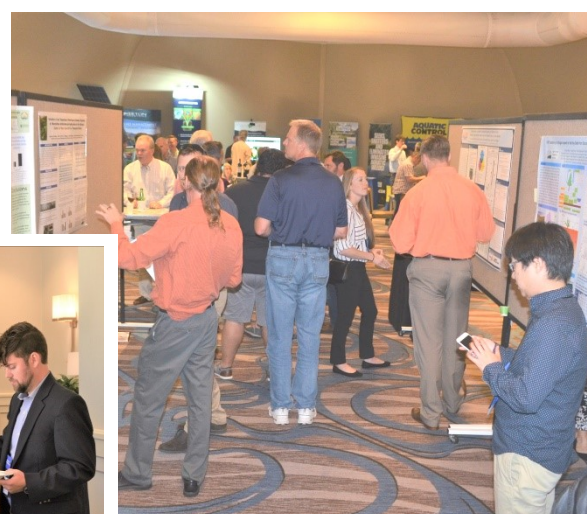
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Scenes from the 59th APMS Annual Meeting—San Diego, California



The APMS Annual Meeting Program is rich in technical information and activities that encourage social interactions among attendees in a family-oriented atmosphere. The week begins with a Presidents' Reception on Sunday evening for attendees to reconnect. A Poster Reception on Monday evening allows for informal discussions among researchers and managers. Continental breakfasts and extended refreshment breaks increase general social interactions while special luncheons for students, chapter presidents and APMS past presidents provide forums for focused interactions.



Scenes from the 59th APMS Annual Meeting—San Diego, California



THE AQUATIC PLANT MANAGEMENT SOCIETY, Inc.

7922 NW 71st Street

Gainesville, FL 32653

www.apms.org



ANNOUNCEMENT

Michael D. Netherland

APMS GRADUATE STUDENT RESEARCH GRANT

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

Objective: Provide a grant for a full-time graduate student to conduct research in aquatic plant or algae management techniques (used alone or integrated with other management approaches) or in aquatic ecology related to the biology or management of regionally or nationally recognized nuisance aquatic vegetation (macrophytes, algae, or cyanobacteria).

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

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

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

Proposal Deadline: Applications must be postmarked no later than April 17th, 2020.

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

**Please submit a pdf file of your full application via email to Ryan Thum,
APMS Vice President at: ryan.thum@montana.edu**

Award: Notification of award will be provided to the faculty member in time to make arrangements to attend the APMS 60th Annual Meeting (July 19-22, 2020 – Hyatt Regency Riverwalk, San Antonio, Texas). Formal announcement of the recipient will be made at the Annual Meeting, with initiation of the grant scheduled for the 2021-2022 academic year. Payments in the amount of \$20,000 will be made before January 31st of 2021 and 2022.

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

*For more information on the APMS
Michael D. Netherland Graduate Student
Research Grant
Visit the APMS website: <http://www.apms.org>*

Inquiries: Dr. Ryan Thum
APMS Vice President
406-994-4039
ryan.thum@montana.edu

Start Planning for the 60th Annual Meeting in San Antonio, Texas

Save the Date and start planning now to attend the 60th Annual Meeting of the Aquatic Plant Management Society in San Antonio, Texas from July 19-22 at the Hyatt Regency San Antonio River Walk. The Meeting Planning Committee has negotiated a \$169 room rate for the conference.

The 60th Annual Meeting will be a joint gathering with the Texas Chapter of the APMS. The Program Committee is already assembling sessions pertinent to aquatic plant and water management issues in Texas as well as research and operational reports from across the country. Information will be presented in both oral and poster formats. Bring your students!



Hyatt Regency San Antonio River Walk
123 Losoya Street
San Antonio, Texas 78205

The Hyatt Regency is located directly on The River Walk, or Paseo del Rio, a world-renowned 15-mile urban waterway and only two blocks from the Alamo. The River Walk is tucked quietly below street level and lined with many restaurants, shops, and nightlife. Explore by foot along the river's walking path or jump aboard a river barge for a ride and guided tour.

Below is the link to reservations at the Hyatt Regency San Antonio River Walk:

<https://www.hyatt.com/en-US/group-booking/SATRS/G-APMS>

You can also book over the phone:

Hyatt Reservation: 888-421-1442 or 800-233-1234

Group Name: Aquatic Plant Management Society Conference

Group Code - APMS

This should be a wonderful meeting, so plan to attend July 19-22, 2020. Bring your family and explore all San Antonio and the surrounding area have to offer. More meeting information will be coming soon to the APMS website at www.apms.org and in future Newsletters.

EPA Launches ‘See a Bloom, Give It Room’ High School Video Challenge



U.S. ENVIRONMENTAL PROTECTION AGENCY NEWS RELEASE WWW.EPA.GOV/NEWSROOM

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Students invited to submit videos that raise awareness about harmful algal blooms

DENVER – (Sept. 19, 2019) - Today, the U.S. Environmental Protection Agency (EPA) Regions 7 and 8 announced the launch of the “See a Bloom, Give It Room” High School Video Challenge. The competition, supported by EPA’s Office of Research and Development, is calling for videos from high school students (grades 9-12) that promote public awareness of harmful algal blooms through creative filmmaking.

Students are asked to create public safety videos (under 2 minutes in length) that explain how to spot harmful algal blooms and how people and their pets should be safe around them.

“Harmful algae have emerged as a persistent and challenging human health concern in recreational waters across our region,” said **EPA Region 8 Administrator Gregory Sopkin**. “We’re asking young and aspiring videographers to help us find creative ways to make people aware of the risks and prevent exposure.”

“Through this challenge, we’re asking high schoolers across our region to be creative, have fun, and be part of the solution,” said **EPA Region 7 Administrator Jim Gulliford**. “Harmful algal blooms can be dangerous to people and pets participating in recreational activities in the water. Winning video entries from this challenge will help EPA and our state, local and tribal partners inform communities about the risks of harmful algal blooms and how to spot and steer clear of them.”

The contest is open to high school students or teams in EPA Regions 7 and 8: Colorado, Iowa, Kansas, Missouri, Montana, North Dakota, Nebraska, South Dakota, Utah and Wyoming. This includes students in public, private and tribal high schools, and home school programs.

A winner from each state, along with two regional tribal winners, will be selected by judging panels to each receive a \$2,000 cash prize. Two grand prize winners will also be selected to receive \$4,000 each.

Winning videos will also be highlighted at the EPA Harmful Algal Bloom (HAB) Conference in February; featured on EPA web and social media channels; and used by the Agency and its state environmental partners in HAB safety outreach efforts.

Information about the challenge, helpful HAB video resources, and instructions on how to submit videos can be found at: www.epa.gov/innovation/harmful-algal-bloom-video-challenge.

Background: Certain environmental conditions in water bodies can intensify algae growth, causing algal blooms. Blooms with the potential to harm human health or aquatic ecosystems are referred to as harmful algal blooms or HABs. In freshwater systems, cyanobacteria (also called blue-green algae) are microorganisms that can produce HABs. Some cyanobacterial HABs, or cyanoHABs, can produce toxins. CyanoHABs and their toxins can harm people, animals, aquatic ecosystems, the economy, drinking water supplies, property values, and recreational activities, including swimming and commercial and recreational fishing. Learn more about HABs at:

www.epa.gov/cyanoHABs

Article forwarded by Lee Van Wychen,
APMS Science Policy Advisor with WSSA

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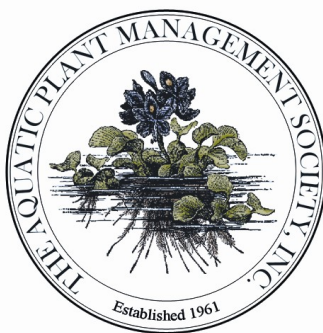
Date	Meeting	Location
2019		
October 2-4	South Carolina Aquatic Plant Management Society	North Myrtle Beach, SC
October 14-17	Florida Aquatic Plant Management Society	St. Petersburg, Florida
November 4-6	MidSouth Aquatic Plant Management Society	Baton Rouge, Louisiana
November 11-15	North American Lake Management Society	Burlington, Vermont
November 18-20	Texas Aquatic Plant Management Society	Bryan, Texas
2020		
January 14-16	Northeast Aquatic Plant Management Society	Lake Placid, New York
February 10-13	Midwest Aquatic Plant Management Society	Indianapolis, Indiana
March 2-5	Weed Science Society of America	Maui, Hawaii
March 16-18	Western Aquatic Plant Management Society	Tucson, Arizona
July 19-22	Aquatic Plant Management Society	San Antonio, Texas
Joint Meeting APMS (60th Anniversary) & TAPMS		
July 19-22	Texas Aquatic Plant Management Society	San Antonio, Texas
Aug 30-Sep 3	American Fisheries Society (150 th Anniversary)	Columbus, Ohio

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