

Aquatic Plant News

The Newsletter of the Aquatic Plant Management Society, Inc.
7922 NW 71st Street, Gainesville, FL 32653
Jeffrey D. Schardt, Newsletter Editor

Issue III

March 2016

Join us in Grand Rapids, July 16-20 at Amway Grand Plaza Hotel

Site of the APMS 56th Annual Meeting



"In 1913, the cornerstone of the Pantlind Hotel was laid and initial construction of the hotel began. Consider other events of the year 1913 to gain some perspective. It was the year President Gerald R. Ford was born, the first year of the federal income tax, and the inspiration for the name of The 1913 Room – now known as Ruth's Chris. In 1916, the Pantlind Hotel reopened after extensive renovations. Fashioned after English Adams architecture by designers Warren and Wetmore, the hotel's special details included one of the world's largest gold-leaf ceilings and two of the world's most stunning chandeliers, both located in the Pantlind lobby. By 1925, the former Pantlind hotel was not only the hottest hotel going in West Michigan, it was ranked "One of the 10 Finest Hotels in America."

"After the hotel, along with downtown Grand Rapids, fell from favor as people discovered the suburbs, the Amway Corporation acquired the historic Pantlind and carefully restored it to its former glory. In 1981, the Amway Grand Plaza opened, adding the Glass Tower in 1983. Along with bringing the Amway Grand Plaza back to its former glory, something else amazing happened along the way. The hotel's rebirth sparked the resurgence of downtown Grand Rapids."

(Reprinted from Amway Grand Plaza website, www.amwaygrand.com)

Tommy Bowen, Meeting Planning Committee

We're on the Web!
apms.org

Plan for the Meeting—Enjoy the Surroundings

Annual Meeting Format and Events at-a-Glance

The Society will continue to use a 2½ day format for the meeting. The technical program will begin Monday morning, July 11, and end around noon on Wednesday. Our meeting will kick off with the President's Reception on Sunday evening. As the official welcoming event of the meeting, this reception is an excellent time to reacquaint with old friends, meet new friends, and just relax. Heavy hors d'oeuvres and your favorite beverages will be served. The Monday evening Poster Session and Reception presents a great opportunity to examine posters and exhibits while enjoying great food and beverage. The APMS Reception and Awards Banquet on Tuesday evening will be another memorable event where we will recognize those who have served and contributed to our Society, welcome new officers and directors, and present student presentation and other awards. These special events are free to all registered delegates, students, and guests. Non-registered guests may purchase individual tickets for the events at the registration desk.

Getting There

The Amway Grand Plaza is a 20 minute drive from the Gerald R. Ford International Airport and is accessible by taxi, limousine, rental car or Uber. A typical taxi fee is \$32 one way.

While in Grand Rapids

No need to move the vehicle or call an Uber once you get to the Hotel. There are over 70 restaurants within walking distance and the beautiful Grand River with its Riverwalk is just outside the Amway Grand Hotel entrance.

As an additional note, I've been informed by an APMS committee member who is familiar with the area and will remain nameless (George Selden), that within a half mile walk of the Amway is a low-head dam across the Grand River. It is very popular with local fishermen, so if anyone fly fishes, bring your rod and tackle and wet a line - after the sessions of course.



Voted Beer City
USA in national

polls and named Best Beer Town by USA Today readers, Grand Rapids is the perfect place for your beercation. Information on the Beer City Ale Trail boasting 40+ breweries will be available at the registration desk.

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Make Reservations Now to Attend the 2016 APMS Annual Meeting !



Please make your reservations early. Last year, we filled our room block at the host hotel one month before the meeting. When making your reservations by phone, be sure to mention that you are part of the Aquatic Plant Management Society. The cutoff date for reservations at the special group rate is June 23, 2016. Our special APMS guest room rate is \$134.00 for single and double occupancy per night plus applicable tax. These group rates are available three days prior to the conference and three days post conference, subject to availability. The Amway Grand requires that all reservations be guaranteed with a major credit card or a deposit. Deposits are refundable if notice of cancellation is received by the Hotel Reservations Department at least 48 hours prior to the date of expected arrival. Check in time is 4:00 p.m. and checkout time is 11:00 a.m. If you choose to depart earlier than your reserved departure date, the hotel will charge one night room and tax.

Below is the link to reservations at the Amway Grand Plaza:

https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=14232510

Reservations Toll Free: (800) 253-3590

Reservations Local Phone: (616) 776-6450



Second Call for Papers—2016 APMS Annual Meeting

You are invited to submit a title and abstract for the 56th Annual Meeting of the Aquatic Plant Management Society to be held July 17-20, 2016, at the Amway Grand Plaza Hotel in Grand Rapids, MI. Both oral and poster presentations are solicited for original research on the biology or ecology of aquatic and wetland plants, control methods (biological, chemical, cultural, mechanical) for invasive, exotic or nuisance plant or alga 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 is in the region of the Midwest Aquatic Plant Management Society, so regional presenters are strongly encouraged to submit an abstract.

The Society also invites student abstracts for oral or poster presentations. This meeting presents an opportunity for students to network with key government, university and industry representatives, and peers with similar educational and professional interests. The society will provide all student presenters with room accommodations and complimentary registration. First, 2nd, and 3rd place prize money will be awarded in separate contests for both oral and poster presentations. In addition, all students are invited to attend a hands-on tour of local aquatic plant management sites immediately following the meeting and concluding Thursday, July 21. Students may contact the APMS Student Affairs Committee Chair, Dr. Chris Mudge, with any questions at CMudge@agcenter.lsu.edu.

Oral presentations will be allotted a total of 15 minutes with an additional 5 minutes for questions and discussion. Contributed oral presentations should be scientific or technical in nature, which will be determined from the submitted abstract. An LCD projector/computer and laser pointer will be available for oral presentations. Only PC-based PowerPoint presentations will be accepted. All presenters will be required to upload their final PowerPoint presentation to the abstract submission portal prior to the meeting. Note: All presentations that include externally run programs, models or special animation, must be reviewed and approved by the Program Chair prior to the meeting. You will not be allowed to set up a personal computer for your presentation. A poster session will also be scheduled. Free-standing display boards (4' x 4') will be provided for posters.

Please go to the WSSA Title and Abstract Submission System at <https://wssaabstracts.com/> to submit your information online. Log in and click "Join a Conference" to access the 2016 APMS meeting. Click "Enter" then "My Titles and Abstracts" to submit your information. Please limit abstracts to 300 words. You will receive a confirmation email to indicate your title and abstract have been received and uploaded. This does not mean that your presentation is accepted for the conference. Acceptance of contributed papers will not occur until after the abstract deadline, and will be confirmed by a separate e-mail.

The title and abstract submission system is now active and will remain open until April 29, 2016.

Navigating the WSSA Title and Abstract Submission System

The Aquatic Plant Management Society uses the WSSA Title and Abstract Submission System, available at www.wssaabstracts.com. If you have used this system before, enter your e-mail address and password to sign on to the system. If you cannot remember your password, there is a link on the right hand side to reset the password. Once you are logged in, you can add a new conference – in this case, the **2016 Aquatic Plant Management Society**. Follow the instructions on entering a title and abstract.

If you do not have an account with the WSSA abstract submission system, you can create a new account with a link on the right hand side of the webpage. Click on the “Setup New Account” link, and add your e-mail address (as the login), your name and affiliation, and contact phone number.

To enter a new title and abstract, click on the link on the left hand side of the 2016 Aquatic Plant Management Society conference webpage, “My Titles and Abstracts.” Then click on “Add New Title / Abstract.” Type in the title in sentence case, and indicate whether or not you are a student and if you are planning on being judged in the contest. There are no sections to the APMS conference.

Be sure to add the names of all the authors in the correct order, and their contact information.

Type the text of your abstract into the abstract box. It is probably easiest to type this in a word processor file, and copy and paste the abstract text into the abstract text box.

Abstracts must be submitted on the WSSA abstract system; do not e-mail these to the program chair and expect to be included in the program.

The deadline for title and abstract submission is April 29, 2016. Please do not wait until the last minute. Abstracts will be accepted for oral presentations on a first come, first served basis. Poster presentations will also be accepted on a first come, first served basis.

PowerPoint presentations for oral presentations should be uploaded to the WSSA Abstract Submission site no later than July 11, 2016.

If you have any questions, please contact:

Dr. John Madsen

2016 APMS Program Chair

jmadsen@ucdavis.edu

56th Annual Meeting of the APMS Registration Form

Delegate/Student/Guest Information

Last Name: _____ First Name: _____ M.I: _____

Affiliation: _____

Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

Country: _____ E-mail Address: _____

Phone: _____ Fax: _____

Registration *(Includes Refreshment Breaks, President's Reception, Poster Reception, and Banquet)*

	Early <i>(by June 17, 2016)</i>	On-site	
<input type="checkbox"/> Delegate Registration	\$ 275.00	\$ 330.00	\$ _____
<input type="checkbox"/> Student Paper Competition Registration	\$ 0.00	\$ 0.00	\$ <u>0.00</u>
<input type="checkbox"/> Regular Student Registration (non-competing)	\$ 75.00	\$ 75.00	\$ _____
<input type="checkbox"/> Guest Registration (spouse, partner, child over 12 years-of-age) <i>(also includes the Guest Tour)</i>			
Name(s): _____	\$ 130.00	\$ 155.00	\$ _____
<input type="checkbox"/> One-day Meeting Registration <i>(includes refreshment breaks on day of attendance only)</i>			
Day of Attendance: _____	\$ 100.00	\$ 100.00	\$ _____

Individual Special Event Tickets for Non-registered Guests

<input type="checkbox"/> President's Reception	Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Guest Tour	Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Poster Reception	Name(s): _____	\$ 40.00	\$ 50.00	\$ _____
<input type="checkbox"/> Banquet	Name(s): _____	\$ 55.00	\$ 65.00	\$ _____

Membership Dues (2016)

<input type="checkbox"/> Individual	\$ 75.00	\$ _____
<input type="checkbox"/> Student	\$ 20.00	\$ _____
<input type="checkbox"/> Sustaining	\$500.00	\$ _____

Total Payment Amount:

\$ _____

Payment Method (Check One)

☐ Check *(Make Payable to APMS, Inc.)*

Credit Card: ☐ Visa ☐ Master Card ☐ American Express

Credit Card Number: _____ Expiration Date: _____

Name as it Appears on Card: _____ Signature of Card Holder: _____

Send Completed Form and Payment to:

The Aquatic Plant Management Society, Inc.
7922 NW 71st Street
Gainesville, FL 32653
Fax: 352-392-3462

Early registration accepted if form and payment received by June 17, 2016. Registration questions, please phone: 662-617-4571 or E-mail: APMS14@Hotmail.com

Cancellation/Refund Policy: Registration fees are fully refundable prior to June 30, 2016, less a \$25.00 processing and handling fee. No refund of any fees will be issued if cancellation of participation is received after June 30, 2016. Notice of cancellation must be received by APMS via mail, fax, or e-mail. **Phone cancellations will not be accepted.**

APMS Annual Student Presentation Contests for the July 2016 Meeting

The Aquatic Plant Management Society (APMS) is inviting student presentations for the upcoming 56th Annual Meeting. The meeting will be held July 17-20, 2016 at the Amway Grand Plaza Hotel in Grand Rapids, Michigan.

Oral and poster presentations of original research are solicited on the biology or ecology of aquatic and wetland plants, harmful algal blooms, control methods (biological, chemical, cultural, mechanical) for invasive exotic or nuisance native plant species, and restoration projects involving wetland or aquatic plants. We had outstanding participation at the 2015 Myrtle Beach, South Carolina meeting with 13 student presenters from six different universities and we hope to surpass last year's student attendance and participation.

The APMS has a strong ethic of student support. This meeting provides an opportunity for students to develop their presentation skills, learn about the field of aquatic plant management, and network with key government, university and industry representatives, and peers with similar educational and professional interests.

The society will provide all student presenters with room accommodations and complimentary registration. First, 2nd, and 3rd place prize money will be awarded in separate contests for both oral and poster presentations. During the conference, a meet & greet and student affairs luncheon will be held for students to network with other attendees. Following the conference, all students are invited to attend a hands-on tour of local aquatic plant management sites near Grand Rapids immediately following the meeting and concluding Thursday July 20. Please log on to www.apms.org to learn more about the Aquatic Plant Management Society and this year's meeting. Students may register and submit an abstract by following the instructions under the "annual meeting" link.

The submission deadline for Title and Abstract is April 29, 2016.

For more information please contact:

APMS Student Affairs Committee Chair

Christopher Mudge, PhD
US Army Engineer Research & Development Center
108 Sturgis Hall
Baton Rouge, LA 70803
Christopher.R.Mudge@usace.army.mil
or CMudge@agcenter.lsu.edu
225-578-1208

Register for the Guest Tour

This year, our Guest Tour for spouses, children, and guests will begin with a one hour guided tour of Grand Rapids which includes passing the Gerald R. Ford Presidential Museum and learning about President Ford. We will travel through one of the country's largest urban neighborhoods, Heritage Hill, and see mansions that were built in the late 1800's and early 1900's for the movers and shakers who developed the city of Grand Rapids. Also included is a visit to the entertainment areas of town as well as the oldest part of the city; the city center— home to the Grand Rapids Art Museum and tons of shopping, restaurants, and coffee bars. The tour covers the history and stories about Grand Rapids.

Following the tour, we will stop at the new Downtown Market, an urban market filled with food vendors and local products to take home. Afterwards, we will drive guests to the world famous Frederik Meijer Gardens and Sculpture Park. Ranked in the top 100 most-visited art museums worldwide by Art Newspaper, the leading publication in global art news, Frederik Meijer Gardens



& Sculpture Park has become an international destination. The sculpture program features more than 200 works in the permanent collection sited both indoors and outdoors on the 158-acre main campus. The permanent collection focuses on works by established and emerging sculptors from the Modern tradition to the present. Frederik Meijer Gardens & Sculpture Park integrates the experience of striking gardens with fine art. The emphasis is on horticultural displays showcasing a beautiful array of plants appropriate for the Midwest and specialized plants from regions around the world.

Enjoy the Lena Meijer Tropical Conservatory, the English Perennial and Bulb Garden, Carnivorous Plant House, the Children's Garden, and the newly opened Japanese Gardens. Kids will enjoy playing in the Storytelling Garden, Log Cabin, Tree house Village, the Waterfall, and the Labyrinth and Butterfly Maze. You can also discover the outdoor park, not by walking but by tram, and enjoy a guided 50-minute tour of the grounds with a docent from the gardens which is included. Lunch will be provided to each guest in the Garden's restaurant. We will return to the Hotel by 3:00 pm.



Lena Meijer Tropical Conservatory

Founding Member and First APMS President Passes

T. Wayne Miller, Jr.

November 28, 1927 — January 3, 2016



Thomas Wainwright Miller, Jr. (Wayne) departed this life on January 3, 2016. As a founding Member and first and only two-term President of APMS, Mr. Miller brought unity and vision, leading to successful management of aquatic plants in Florida. Organizing plant managers is but one of the accomplishments of his incredible journey. The following is borrowed from tributes published earlier this year, celebrating the life of T. Wayne Miller.

Wayne, the son of Thomas Wainwright Miller, Sr. and Grace Gilbert Miller, was born in Clearwater, Florida November 28, 1927. The Florida boom broke in 1926 and Tom Miller, City Manager of Largo, lost his job in a change of administration a few days after Wayne was born. The Miller family moved to Kissimmee, where Wayne spent his early years in the home of his maternal grandparents, Addison Starr and Ellen Jeffords Gilbert. Small town Kissimmee was a wonderful place to be during the depression years, but as work became available, the Millers moved, first to Dundee and then to Brooksville, where Wayne attended the third grade.

Back in Kissimmee, at the age of fifteen, Wayne was chosen to go to Washington where he worked in the House of Representatives Post Office under the patronage of Congressman Joe Hendricks. After two years in Washington, Wayne returned to Kissimmee where he graduated from Osceola High School in 1945. He enlisted in the Army and went through basic training at Camp Lee, Virginia. From there he was sent to Germany, where he served as Battalion Mail Clerk for fifteen months. He became a life member of the American Legion. After discharge from the Army, Wayne was at Georgia Tech from 1948-1952, graduating in Civil Engineering. He became a Life Member of both the Florida Engineering Society and the National Society of Professional Engineers.

On Christmas Day in 1952, Wayne married the love of his life, Mavis Stinson of Lakeland. Wayne accepted a job with Standard Oil of Indiana and was sent to Glendive, Montana (temperature 28 degrees below zero—Mavis had never seen snow). After five months in Montana they concurred that Florida was the better place to live. Wayne took a job with the Florida State Board of Health in mosquito control - which he knew absolutely nothing about. They spent eight months in Panama City, then to Vero Beach where Wayne III was born in November, 1954.

In 1955 the Millers moved to Fort Pierce, where Wayne directed the Saint Lucie County mosquito control program. In November, 1956, they moved to Fort Myers to establish the Lee County Mosquito Control District. In 1961, the program was expanded to include aquatic weed control. Over the years the District evolved into the largest single county mosquito control program in the world - operating twelve Douglas DC-3 aircraft and fifteen Bell turbine helicopters. Wayne became a member of the Ye Anciente and Secret Order of Quiet Birdmen. In 1988, Wayne was awarded as honorary Doctor of Business Administration by Carson-Newman College. At First Baptist Church of Fort Myers, Wayne served as a Deacon and as Vice President of the Church Corporation. In the Masonic Lodge, Wayne served as High Priest of the Chapter, Master of the Council and Commander of the Commandry. He was awarded the York Cross of Honor. He was a charter member of Araba Shrine Temple and was an active member of the Royal Order of Jesters. He was a member of the Sons of the American Revolution.

Over the years, Wayne served on the Board of Trustees of the University of South Florida Foundation, Palm Beach Atlantic College, Edison College Foundations, Florida Gulf Coast University Foundation and the Baptist Foundation

of Fort Myers. In 1991, Wayne served as a member of the committee to select a new President for Edison College, and in 1993, he chaired the local search committee to select the first President of Florida Gulf Coast University. Wayne served as President, CEO and Trustee of the John E. and Aliese Price Foundation and as a Trustee of the George and Mary Jo Sanders Foundation. He was President of the Florida Anti-Mosquito Association and was founding President of the Aquatic Plant Management Society. He was named Engineer of the Year by the Calusa Chapter of the Florida Engineering Society in 1989, and again by the Southwest Florida Chapter of the American Society of Civil Engineers in 1993. He was named to the Hall of Success at Georgia Tech in 1993, and was inducted into the Engineering Fort Myers Hall of Fame in 1998.

In 2015, both Mavis and Wayne were inducted into the Hill Society by Georgia Tech President, G. P. Peterson. Wayne was President of the Metropolitan Chamber of Commerce, United Way of Lee County, Fort Myers Rod and Gun Club and the Southwest Florida Council, Boy Scouts of America, where he received the Silver Beaver award. He served on the Board of Directors of Goodwill Industries, the SW Florida Fair Association, the SW Florida Symphony Orchestra Association, Lee Memorial Hospital, Inc., Royal Palm Yacht Club, the Florida Engineering Society and the Engineers in Government Section of the National Society of Professional Engineers. He served on the Board of Directors of Gulf Savings and Loan Association and chaired the Audit Committee at First Federal Savings and Loan Association. Following that, he served on the Advisory Board of Key Private Bank of Florida. Wayne was a Past President of the Rotary Club of Fort Myers, where he had over 60 years perfect attendance. He was a Life Member of MENSA. In 1994, the year he retired from mosquito control, Wayne was named Distinguished Citizen of SW Florida. He was selected as Person of the Year for 2001 by the Fort Myers News Press, and was named Altruist of the year in 2002. Together through the Price Foundation, Mavis and Wayne sponsored a Community Prayer Breakfast for 1400 people and an Easter Sunrise Service for over 3,000 for 25 years.

Water hyacinth was infesting the Caloosahatchee River, heavily impacting boat transportation in 1960. Recognizing that something must be done to combat this nonindigenous aquatic plant species, the Lee County Hyacinth Control District (LCHCD) was formed by an act of Florida Legislation on June 12, 1961. The LCHCD was joined to the LCMCD. Although two separate Districts, Mr. Miller was the Director for both. The same year LCHCD was formed, water managers from across the state convened in Lee County and formed the Hyacinth Control Society, now APMS, to share control strategies and develop a comprehensive management approach to Florida's most prolific aquatic plant. Mr. Miller served as the Society's President for the first two years and Lee County has been a supporting member of APMS since its inception.

Just as Mr. Miller brought an integrated approach to mosquito control, he brought it to aquatic plant management. In addition to harvesting plants and herbicide treatments, Mr. Miller added a biological control method to aquatic plant management. He started the sterile grass carp program for Lee County. Mr. Miller wanted LCMCD and LCHCD to be leaders in mosquito control and aquatic plant management. Research to evaluate new products and new application techniques for control of adult and immature mosquitos and nuisance aquatic plants has always been an integral part of the Districts' operational programs. Since LCMCD and LCHCD onset, the Districts have participated in cooperative research and development projects with universities, other districts, pesticide and herbicide manufacturers, and state, federal, and international research laboratories. The Districts' goal has been to stay abreast of all the latest mosquito and aquatic plant control technologies, and continually update the operational programs with the safest and most cost-effective products and application techniques.

Mr. Miller served as Secretary as well as President of APMS. He was honored by the APMS by creating the T. Wayne Miller Distinguished Service Award, presented to an individual to recognize "Service to the Society and the Profession." Considerations for the award include completion of a relatively short-term project taking considerable effort resulting in advancement of aquatic plant management; performance beyond the call of duty; or achievement leading to the advancement of APMS goals and objectives.

Proposed Bylaws Change Requiring Membership Vote

The APMS Board of Directors occasionally receives requests for funding, sometimes in excess of several thousand dollars. These requests can be complex, requiring considerable time or additional data for deliberation. Accordingly, the Board is proposing the creation of an additional Standing Committee to vet proposals for APMS funding of \$5,000 or more to make recommendations to the Board. This Committee will not evaluate proposals for the Graduate Student Research Grant that has specific scientific and operational review representation from each Regional Chapter.

The Board is offering the following amendment to the APMS Bylaws adding the Proposal Review Committee as number 12 and renumbering subsequent Committees in Article XIII. This proposed amendment requires a vote by the Membership at the July 2016 Annual Business Meeting in Grand Rapids.

Article XIII. Committees and Representatives

12. Proposal Review Committee

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

Meeting Sponsorship and Exhibitors

Would you like to be a Meeting Sponsor and assist the APMS in conducting an informative and successful meeting for the education, scientific, and operational advancement of aquatic plant management? Information on sponsorship and exhibiting at the annual meeting is available on the APMS website (apms.org) or contact Craig Aguillard (phone: 337-290-1096; email: caguillard@landolakes.com). This will be a great meeting in a great venue, so plan to attend and bring your family. Please assist us in planning for the 56th Annual Meeting by submitting the Meeting Registration Form enclosed in this newsletter by June 23, 2016.

Seeking Raffle and Silent Auction Donations for Student Initiatives

The Scholastic Endowment would like to remind our generous Members, Vendors, Exhibitors, Applicators, and others that we will be contacting you soon to ask you for your continued support. At the meeting last year in Myrtle Beach we were very fortunate to have excellent raffle and silent auction donations from our membership. A Microsoft Surface Laptop, Smart TV, GoPRO, spray equipment, and high-end coolers were just some of the great items donated. These generous and desirable prizes were essential to attracting the impressive number of raffle ticket sales from meeting attendees, which meant more money for the APMS Scholastic Endowment, and we THANK YOU! We would love to see a repeat this year in Grand Rapids! If anyone has any questions in the meantime or would like to contact the Scholastic Endowment Chair, please contact:

Tom Warmuth of BioSafe Systems

twarmuth@biosafesystems.com or call 336-402-4449



THE AQUATIC PLANT MANAGEMENT SOCIETY, Inc.

7922 NW 71st Street
Gainesville, FL 32653
www.apms.org

ANNOUNCEMENT - 2ND Call

APMS GRADUATE STUDENT RESEARCH GRANT

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

Objective: To provide a grant for a full-time graduate student to conduct research in an area involving aquatic plant management techniques (used alone or integrated with other management approaches) or in aquatic ecology related to the biology or management of regionally or nationally recognized nuisance aquatic vegetation.

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 15th, 2016.

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 Jeff Schardt, APMS Secretary at:
jeff.schardt@gmail.com

Award: Notification of award will be provided to the faculty member in time to make arrangements to attend the APMS 56th Annual Meeting (July 17-20, 2016 – Grand Rapids, Michigan). Formal announcement of the recipient will be made at the Annual Meeting, with initiation of the grant scheduled for the 2017-2018 academic year. Payments will be made before January 31st of 2017 and 2018.

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.

Inquiries: Jeffrey D. Schardt
APMS Secretary
850-591-1242
jeff.schardt@gmail.com

APMS Graduate Student Research Grant Recipients

Student initiatives are among the most important core values of the Aquatic Plant Management Society. High on the list of student support programs is the Graduate Student Research Grant offered by APMS in the area of aquatic plant management and ecology. This academic grant is co-sponsored by APMS and the seven regional APMS chapters: Florida, MidSouth, Midwest, Northeast, South Carolina, Texas, and Western.

The \$40,000 Graduate Student Research Grant is awarded biannually for the most qualified proposal submitted. The objective is to provide a grant for a full-time graduate student to conduct research in an area involving aquatic plant management techniques (used alone or integrated with other management approaches) or in aquatic ecology related to the biology or management of regionally or nationally recognized nuisance aquatic vegetation. Proposals are scored by an eight-member panel consisting of academic judges from APMS and each of the regional chapters. Grants are awarded at the July APMS Annual Meeting.

APMS and chapters have contributed toward \$340,000 in Graduate Student Research Grants since 1999. Below is a list of the Graduate Student Research Grants funded under this program.

Recipient	Affiliation	Year	Amount
Mary Bremigan	Michigan State University	1999	\$34,000
<i>The Indirect Effects of Sonar Application on Lake Food Webs</i>			
Katia Englehardt	University of Maryland	2001	\$40,000
<i>Controlling Non-native Submersed Aquatic Macrophyte Species in Maryland Reservoirs: Plant Competition Mediated by Selective Control</i>			
Susan Wilde	University of South Carolina	2005	\$40,000
<i>Investigating the Role of Invasive Aquatic Plants and Epiphytic Cyanobacteria on Expression of Avian Vacuolar Myelinopathy (AVM)</i>			
John Madsen	Mississippi State University	2007	\$60,000
<i>The Seasonal Phenology, Ecology and Management of Parrotfeather[Myriophyllum aquaticum (Vellozo) Verdecourt]</i>			
Rob Richardson	North Carolina State University	2010	\$40,000
<i>Monoecious Hydrilla: Phenology and Competition</i>			
Ryan Thum	Grand Valley State University	2012	\$40,000
<i>A Quantitative Genetics Approach to Identifying the Genetic Architecture of Herbicide Susceptibility, Tolerance, and Resistance in Hybrid Watermilfoils (Myriophyllum spicatum x sibiricum)</i>			
Scott Nissen	Colorado State University	2014	\$40,000
<i>Exploring the Physiological Basis of 2,4-D Tolerance in Northern Watermilfoil x Eurasian Watermilfoil Hybrids</i>			
Rob Richardson	North Carolina State University	2015	\$40,000
<i>Aspects of Monoecious Hydrilla Physiology and Response to Herbicide Combination Treatments</i>			

APMS Sustaining Membership

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 social media content; quarterly issues of [Aquatics](#) magazine; recognition as a Sustaining Member in Newsletters, the Annual Meeting Program, and on the APMS website. Please read about [APMS Sustaining Members](#) and learn more about them by visiting their websites.

Please join APMS as a Sustaining Member at apms.org/society/membership/

2016 Sustaining Members

- Alligare, LLC
- Applied Aquatic Management, Inc.
- Applied Biochemists, A Lonza Business
- Aqua Services, Inc.
- AquaTechnex, LLC
- Aquatic Control, Inc.
- BioSafe Systems, LLC
- Brewer International
- Chem One Ltd.
- Crop Production Services
- Cygnet Enterprises, Inc.
- Lake Restoration, Inc.
- Lee County Hyacinth Control District
- Nufarm Americas
- Pond Boss PRO
- Santee Cooper
- SePRO Corporation
- Syngenta
- UPI
- Vertex Water Features

APMS Chapter and Related Annual Meetings

Date	Meeting	Location
2016		
March 6-9	Midwest Aquatic Plant Management Society	Grand Rapids, MI
March 21-23	Western Aquatic Plant Management Society	San Diego, CA
May 2-5	UF/IFAS Aquatic Weed Short Course	Coral Springs, FL
August 21-25	American Fisheries Society	Kansas City, MO
September 12-14	MidSouth Aquatic Plant Management Society	Baton Rouge, LA
October 5-7	South Carolina Aquatic Plant Management Society	Springmaid Beach, SC
October 17-20	Florida Aquatic Plant Management Society	Daytona Beach, FL
November 1-4	North American Lake Management Society	Banff, Alberta, Canada
TBA	Texas Aquatic Plant Management Society	
2017		
January 9-11	Northeast Aquatic Plant Management Society	Portsmouth, NH
February 6-9	Weed Science Society of America	Tucson, AZ
July 16-19	Aquatic Plant Management Society	Daytona Beach, FL

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Washington Report

Lee Van Wychen, Director of Science Policy

National Weed Survey

The National and Regional Weed Science Societies conducted a survey of the most common and troublesome weeds in 26 different cropping systems and natural areas across the U.S. and Canada. Common weeds refer to those weeds you most frequently see, while troublesome weeds are those that are most difficult to control (but may not be widespread). There were three aquatic area categories: 1) Lakes, Reservoirs, and Rivers, 2) Ponds, and 3) Irrigation and Flood Control, which had 57, 19, and 7 survey responses, respectively. Below are the 2015 survey responses for those three aquatic area categories. "Times Listed" is the number of survey respondents who listed that species as one of their top five species for that aquatic area.

Top 10 weeds in Lakes, Reservoirs, and Rivers					
Rank	Most COMMON	Times Listed	Rank	Most TROUBLESOME	Times Listed
1	curlyleaf pondweed	21	1	hydrilla	36
1	Eurasian watermilfoil	21	2	Eurasian watermilfoil	23
3	hydrilla	18	3	curlyleaf pondweed	18
4	coontail	12	4	waterhyacinth	17
4	waterhyacinth	12	5	giant salvinia	11
6	creeping waterprimrose	8	6	waterlettuce	9
7	sago pondweed	7	7	fanwort	8
7	waterlettuce	7	8	alligatorweed	6
9	alligatorweed	6	8	creeping waterprimrose	6
9	fanwort	6	8	flowering rush	6
			8	variable watermilfoil	6

Top 5 weeds in Ponds					
Rank	Most COMMON	Times Listed	Rank	Most TROUBLESOME	Times Listed
1	common duckweed	9	1	common duckweed	7
2	Eurasian watermilfoil	6	2	common watermeal	6
3	common watermeal	5	3	hydrilla	5
4	cattail spp	4	4	southern naiad	4
4	filamentous algae	4	5	creeping waterprimrose	3
4	pondweed spp	4	5	curlyleaf pondweed	3
4	southern naiad	4	5	Eurasian watermilfoil	3
			5	sago pondweed	3

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Top 5 weeds in Irrigation and Flood Control					
Rank	Most COMMON	Times Listed	Rank	Most TROUBLESOME	Times Listed
1	horned pondweed	3	1	hydrilla	3
1	hydrilla	3	1	waterlettuce	3
1	sago pondweed	3	3	alligatorweed	2
1	waterlettuce	3	3	horned pondweed	2
5	alligatorweed	2	3	sago pondweed	2
5	cattail spp	2			
5	torpedograss	2			
5	waterhyacinth	2			

Going forward, the plan is to conduct this survey every year, but split it into a 3-year rotation. In 2016, the survey will cover weeds in broadleaf crops/fruits/vegetables. In 2017, the survey will cover weeds in grass crops/pasture/turf. In the 3rd year of the rotation, 2018, the survey will cover weeds in aquatic/non-crop/natural areas.

WOTUS - Congress Does Not Have Two Thirds Majority to Repeal

The majority of the House and Senate supported legislation (HR 1732; S. 1140) that would have forced the Obama administration to rewrite the controversial Clean Water Act rule that expanded “Waters of the United States (WOTUS)”. However, neither chamber had the necessary two thirds majority needed to override an Obama veto.

Following the failed vote in the Senate to invoke cloture and proceed on S. 1140 (57 yea’s, but they needed 60), the Senate adopted a joint resolution (SJ Res 22) which was meant to kill the Administration’s new WOTUS rule. On Jan. 13, the House also adopted SJ Res 22 by a 253-166 vote. The White House has vetoed this joint resolution as well.

The EPA and Army Corps of Engineers’ Waters of the U.S. (WOTUS) rule also survived a proposed roll-back in the FY 2016 Omnibus spending bill passed in December, despite the Government Accountability Office's (GAO) finding that: *“The Environmental Protection Agency (EPA) violated publicity or propaganda and anti-lobbying provisions contained in appropriations acts with its use of certain social media platforms in association with its “Waters of the United States” (WOTUS) rulemaking in fiscal years 2014 and 2015.”*

See: <http://www.gao.gov/products/B-326944>.

Meanwhile, the Sixth U.S. Court of Appeals just ruled that a federal appeals court rather than a district court was the proper venue to hear challenges to the rule clarifying regulatory reach of the Clean Water Act. The decision affects the 20 challenges to the clean water rule that are consolidated in the Sixth Circuit and an additional 13 challenges that also have been in a holding pattern in federal district courts awaiting the Sixth Circuit's decision. Now the American Farm Bureau Federation and other industry groups will likely petition the full Sixth Circuit to rehear the question of venue because they supported review at the district courts.

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Finally, the American Farm Bureau Federation is publicizing a California farmer's dispute with the Army Corps of Engineers as a cautionary tale for what could happen if the WOTUS rule is adopted. John Duarte, the California farmer, was issued a cease and desist order by the Army Corps of Engineers for basically plowing his field and planting wheat. The Army Corps of Engineers claimed that Duarte violated the Clean Water Act in discharging dredge-and-fill materials in a nearby creek without a permit. For details, see: http://www.fb.org/newsroom/news_article/383/

NPDES Fix Bill Possible as Part of Bipartisan Sportsmen's Bills

Last March the House Agriculture Committee passed The Reducing Regulatory Burdens Act of 2015 (H.R. 897). This legislation has passed the House as a stand-alone bill in two previous sessions of Congress, but failed to get floor consideration in the Senate. H.R. 897 clarifies Congressional intent and eliminates the duplicate regulatory requirement of a National Pollutant Discharge Elimination System (NPDES) permit for the use of herbicides in, over, or near waters of the United States that are already approved for use under FIFRA. In the Senate, Crapo (R-ID) and McCaskill (D-MO), along with 14 other Senate Co-sponsors, introduced S. 1500 in June as a companion bill to what the House passed (H.R. 897), but has not gotten a vote on the Senate floor. However, S. 1500 was offered and accepted as an amendment to the long awaited "Bipartisan Sportsmen's Act of 2016" (S. 659) by the Senate Environment Public Works (EPW) Committee on Jan. 20. S.659 is expected to get action on the Senate floor in March. Similar legislation in the House called the "Sportsmen's Heritage and Recreational Enhancement Act of 2015" (SHARE Act, H.R. 2406) was passed on Feb. 26 by a 242-161 vote.

Areawide IPM Bill (H.R. 3893)

Amends the "Integrated" research, education, and extension competitive grants program to solicit grants for Areawide IPM. Under this program, competitive grants are awarded to colleges and universities for "Integrated" projects as determined by the Secretary of Ag, in consultation with the National Agricultural Research, Extension, Education, and Economics (NAREEE) Advisory Board. "Integrated" programs currently funded include Crop Protection and Pest Management (CPPM - includes the Regional IPM Centers and Extension IPM funding), Water Quality, Methyl Bromide Transitions, and Organic Transitions. Previous programs that received "Integrated" funding included Crops at Risk (CAR) and the Risk Avoidance and Mitigation Program (RAMP). The AIPM bill directs NAREEE to appoint a 9-member subcommittee for AIPM "representing stakeholder groups with experience in areawide research programs carried out by Federal, State, or private entities, to be appointed by the Secretary". There will also be three ex-officio members from the USDA. Next steps are building support among stakeholders (APLU, NASDA, Farm Bureau) and finding co-sponsors in the Senate (Roberts-KS, Cochran-MS, Thune-SD). The long term goal is to get this language into the next Farm Bill.

FY 2016 Appropriations

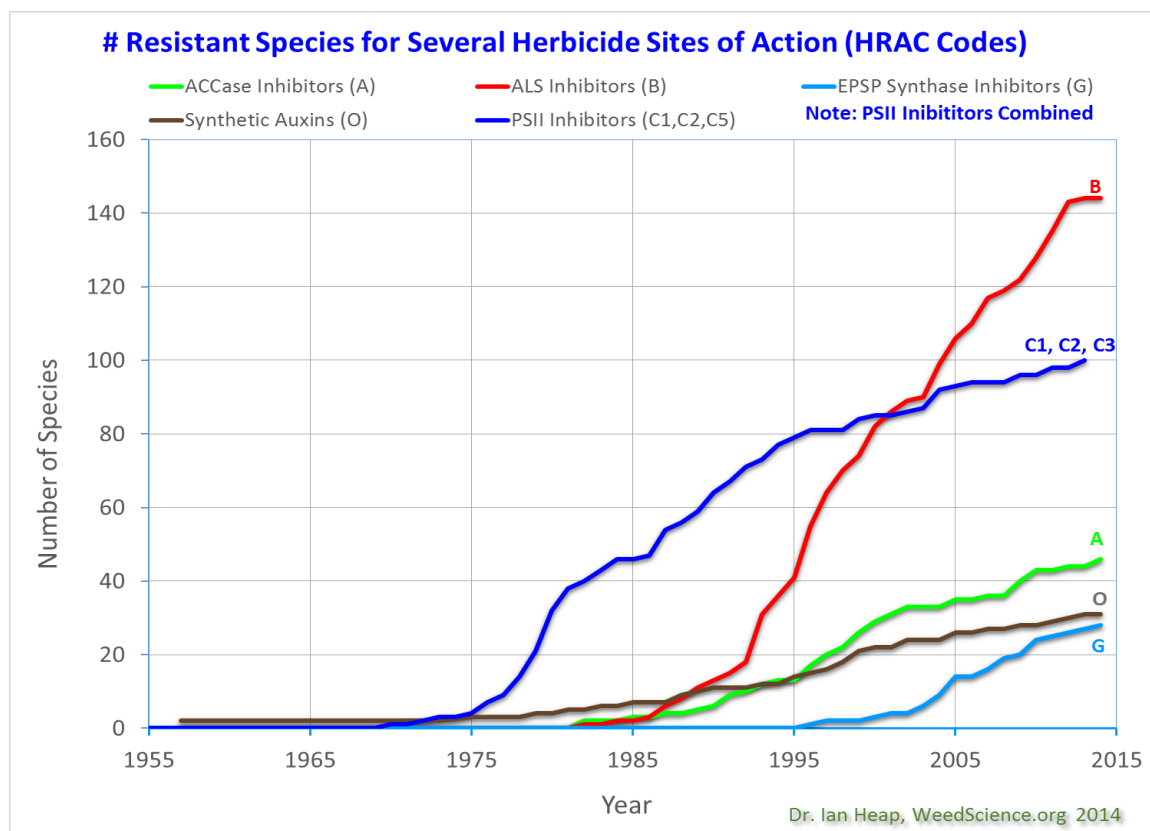
The two-year budget deal (i.e. the Bipartisan Budget Act of 2015) signed into law in December increased non-defense discretionary spending by \$50 billion over the budget caps agreed to under sequestration that began in 2013. The FY 2016 Omnibus funding bill passed by Congress on December 18 is overall good news for weed and invasive plant research because most of our ag research and capacity funds are non-defense discretionary spending. USDA-NIFA, -ARS, -APHIS, and -NRCS all got modest increases compared to last year. Funding for "Aquatic Plant Control" in the Energy and Water Development appropriations

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title, which includes funds for the Corps of Engineers' **Aquatic Plant Control Research Program (APCRP)**, doubled from \$4M to \$8M; however, half of that is slated for new watercraft inspection stations in the Pacific Northwest (as authorized in the Water Resources Reform and Development Act of 2014). The biggest USDA winner was the Agricultural and Food Research Initiative (AFRI) competitive grants program which saw an increase from \$325M to \$350M. USDA funding remained constant to last year's levels for the Hatch Act (\$244M), Smith-Lever Act section 3(b) & (c) (\$300M), IR-4 (\$11.9M), and Crop Protection & Pest Management (\$17.2M), which includes funding for the Regional IPM Centers and Extension IPM.

Herbicide Resistance Education

There has been excellent work done by many weed scientists to support the herbicide resistance education web portal: <http://www.takeactiononweeds.com/>. While none of the weed science societies are listed on the website as sources or credits, it does provide links to the two herbicide resistance management white papers that were included in the 2012 Special Issue of *Weed Science*. Herbicide resistance education and awareness also continues here in Washington, DC. On Dec. 4, David Shaw gave a presentation at the House Ag Committee titled: "Battling the Wicked Problem of Herbicide Resistance: The Human Dimensions of Herbicide Resistance Evolution". About 60 Capitol Hill staffers attended. One of Dr. Shaw's slides, included below, generated some good discussion about glyphosate resistant weeds and about how long we have been dealing with herbicide resistant weeds to other herbicide mechanisms of action. Closing comments were provided by WSSA president Dallas Peterson.



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Foundation for Food and Agriculture Research (FFAR)

We provided [weed research recommendations](#) to the FFAR Board of Directors on October 30 during their first public stakeholder meeting. FFAR is a new non-profit Foundation that will leverage public and private resources to increase the scientific and technological research, innovation, and partnerships critical to boosting America's ag economy. Congress authorized up to \$200 million which must be matched by non-federal funds as the Foundation identifies and approves projects. The majority of weed science research funding comes from **non-federal sources**. Weed scientists can leverage FFAR funds to help solve pressing agricultural challenges like pollinator and monarch butterfly protection, biofuels production, herbicide resistance, and areawide, aquatic, and organic weed control.

Europeans, Canadians Conclude Glyphosate "Unlikely to Cause Cancer in Humans"

In November, the very cautious European Food Safety Authority (EFSA) concluded that glyphosate is unlikely to cause cancer in humans. The Canadian Pest Management Regulatory Agency (PMRA) in April also concluded that "the overall weight of evidence indicates that glyphosate is unlikely to pose a human cancer risk." EFSA stated glyphosate toxicity should be reduced by lessening its dose, but the substance is not likely to be genotoxic or damaging to DNA. "Glyphosate is not proposed to be classified as carcinogenic under the EU regulation for classification, labeling and packaging of chemical substances," EFSA says. "In particular, all the Member State experts but one agreed that neither the epidemiological data (i.e., on humans) nor the evidence from animal studies demonstrated causality between exposure to glyphosate and the development of cancer in humans." These rulings came after the controversial International Agency for Research on Cancer (IARC) ruling last March. The IARC review process is challenged by many due to a lack of transparency, selective inclusion or exclusion of studies, and broad interpretation of study results that are inconsistent with the conclusions of the study authors. Of more than 900 items IARC has reviewed, including coffee, sunlight and night shift work, they have found ONLY ONE "probably" does not cause cancer, according to their classification system.

Concerns on EPA Changes to the Pesticide Applicator Certification and Training Rule

EPA extended the public comment period by one month to January 23, 2016 regarding its proposed changes to the certification and training standards for pesticide applicators. The changes will have significant costs and impacts on state lead agencies, university extension programs, and the applicators subject to regulatory certification. The proposed rule is complex and includes numerous new, revised, and deleted definitions. Main concerns with the proposed revisions include:

1. Three-Year Frequency for Demonstrating Competency
2. Requirement for Earning Continuing Education Units (CEUs) every 18 months
3. Minimum Age
4. Private Applicator Competency Requirements
5. Impact on General Use Pesticide Applicators
6. Definition of "Use"
7. Definition of "Mishap"

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National Invasive Species Awareness Week recap

Volunteers in communities across the nation participated in local events and online webinars during National Invasive Species Awareness Week, which occurred February 21-27, 2016. Invasive weeds alone represent a multibillion dollar annual drain on our economy, so it's important that we educate ourselves, become mindful of invasive species and use what we know to guide our actions throughout the year. Here are some tips for staying informed and making wise decisions:

Learn about invasive species, especially those found in your region. Your [county extension office](#) and the [National Invasive Species Information Center](#) are both trusted resources.

Fully comply with all U.S. government regulations regarding the [transport of agricultural products](#) into the country through U.S. Customs.

If you camp, don't bring firewood along. Instead, buy wood where you'll burn it, or gather it on site when permitted.

Clean hiking boots, waders, boats and trailers, off-road vehicles and other gear to stop invasive species from hitching a ride to a new location.

The following webinars were recorded during NISAW and are available at www.NISAW.org

"Let's Take a Hack at 'Hack and Squirt' Individual Plant Treatments"

"Volunteers Make a Difference in an Early Detection Rapid Response Citizen Science Program"

"Protecting the Sierra Nevada from Invasive Plants: Incorporating Climate Adaptation into Wildland Weed Management"

"Treating Firewood is a Hot Topic: Seasoning, Solarizing, Kiln Drying and Heat Treatment"

"Weed Wrangle: A Template for Engaging Local Communities through Citywide Invasive Plant Events"

"Preventing the Next Kudzu: A Lifecycle Approach to Low-Invasion Potential Bioenergy Production."

The week concluded with a Congressional Reception and Fair on Capitol Hill where many of the Federal Agencies presented information and educational materials on their invasive species activities. Welcoming remarks were given by Congressional Invasive Species Caucus Co-Chairs, Reps. Dan Benishek (R-MI) and Mike Thompson (D-CA), in addition to remarks by Rep. Cynthia Lummis (R-WY). The keynote address was given by the Administrator of USDA-APHIS, Kevin Shea.

Additional educational resources and details on both national and local activities are available at www.nisaw.org. You will even find an online toolkit to help you plan an event in your own community.

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The Aquatic Plant Management Society, Inc.

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. The membership reflects a diversity of federal, state, and local agencies; universities and colleges around the world; corporations; and small businesses.

Mission

The Aquatic Plant Management Society strives to promote environmental stewardship through scientific innovation and development of technology related to integrated plant management in aquatic and riparian systems.

Join APMS and Membership Renewal

Follow the link below to join the Aquatic Plant Management Society

<http://apms.org/wp/wp-content/uploads/2012/09/membership-form-2014.pdf>

If you are already a Member and have not yet renewed your Membership for 2016, follow this link:

<https://apms.org/member-page/renew-membership/>

We're on the Web!
apms.org