



AQUATIC PLANT NEWS

A Newsletter of The Aquatic Plant Management Society, Inc., Issue No. 83, October 2006
Linda Nelson, Newsletter Editor, P.O. Box 821265, Vicksburg, MS 39182-1265

Mission Statement: *"The Aquatic Plant Management Society, Inc. strives to promote environmental stewardship through operations, research, education and outreach related to integrated management of vegetation in aquatic systems"*

Message from the President, Don Doggett

The Portland, Oregon site was an excellent venue for an annual meeting. My wife and I arrived three days early to tour the state. Preceding the conferences we managed to hike countless miles (it seemed mostly uphill) on mountain trails, see numerous waterfalls, go white-water rafting, drive along the Pacific coast, visit a winery, and eat lots of salmon. Thanks to Toni Pennington for her suggestions of what to see and where to go.

As Program Chair for the meeting, I want to again express my appreciation to all the presenters. I received several positive comments regarding the opening ceremony, the student participation, and the quality of the talks in general. Don Stubbs and Kurt Getsinger made my job easier by organizing the special session on Pesticide Regulatory Issues on opening morning.

Jeff Schardt conducted a very professional meeting and has put a lot of time and energy into this Society. He will continue to be an asset to our organization as he is on the National Invasive Species Advisory Committee and several standing APMS Committees. Secretary Linda Nelson is serving her sixth year in this capacity and deserves a great deal of credit for keeping this Society running smoothly. Treasurer and Meeting Planner Bob Gunkel was superb, as usual, in keeping the

meeting organized with the help of Janet Scallions and Cindy Black at the registration desk. Sherry Whitaker and Sonya Lewis are to be commended for their diligence at the video table keeping all of the PowerPoint presentations in order and running smoothly. The Corps' support is invaluable and it cannot be stated too often that we owe a debt of gratitude to our sponsors for their financial support.

The Society adopted a new mission statement (see above) and approved the Strategic Planning Committee as a new standing committee in our bylaws. This committee is in the very capable hands of John Rodgers. A Strategic Plan "Top Ten" list was developed by the Board of Directors and as a result the number one priority was determined to be -- "continue student support." To that end the BOD voted, with the support of the Aquatic Ecosystem Restoration Foundation and our affiliated chapters, to offer another two-year, \$60,000 graduate assistantship. Vice-President, Carlton Layne, is facilitating the selection process and a recipient will be named at next year's annual meeting. Additionally, in an effort to encourage the next generation of aquatic plant managers, a graduate student has been selected by his/her peers to attend future APMS Board meetings and act as a student representative.

Continued on next page...

President's Message, Continued

I am working with a video production company to "clean-up" a somewhat rough copy of the 1997 recording of a reunion luncheon held on Useppa Island in Lee County, Florida, where the founding fathers of this Society met in 1961. Invited guests included those individuals, past presidents, the 1997 Board of Directors, and Lee County Hyacinth Control District Commissioners. The video gives a good historical perspective of the Aquatic Plant Management Society and will be an archival treasure. Intentions are to make DVD copies available and possibly present it at next year's annual meeting.

It is truly an honor to serve as your President. In some respects, I feel the Society is coming back home to its roots. For seventeen years until his retirement in 1994, I worked for T. Wayne Miller, Jr. -- the catalyst for the origination of this Society and its first President. It was his vision and foresight that saw the need for this organization. It started with the support of a few mosquito control directors and has grown to international stature with nine chapters. So, it is with great amount of pride and responsibility that I assume this position. The Aquatic Plant Management Society is a group of professionals that willingly volunteer their time and energy for a common goal and I am pleased to say that many have become life-long friends.

"Music City, USA" (Nashville, Tennessee) Site of the 47th Annual APMS Meeting

Mark your calendar, July 15-18, 2007, for the 47th Annual Meeting of the Aquatic Plant Management Society. The Gaylord Opryland Resort & Convention Center in Nashville, Tennessee will be the site of our annual meeting. Gaylord Opryland offers nine acres of gardens, winding rivers and pathways, and waterfalls under climate-controlled glass atriums where you can shop, dine, and be entertained.

The Meeting Planning Committee is planning exciting and entertaining events for relaxing and visiting with friends and colleagues. The Program

Committee promises a diverse and interesting program with excellent oral and poster presentation on aquatic plant research and management. In addition, useful information on available aquatic plant management products and professional services will be provided in the exhibits room throughout the meeting.

This will be an extraordinary meeting and an experience to remember! So mark your calendar to attend the meeting and plan to explore all "Music City, USA" has to offer. More meeting information will be coming soon to the APMS website at www.apms.org and future newsletters.

Fifteen Students Compete in Paper and Poster Contests

Fifteen students representing 8 different Universities competed in the APMS Student Paper and Poster Contests in Portland, Oregon. Julie Nachtrieb, University of North Texas, won first place honors with her paper presentation titled "The impact of invertebrate herbivory on native aquatic macrophyte biomass." Second place went to Christopher Mudge, University of Florida, for his oral presentation on "Flumioxazin: a new EUP for aquatic weed control." Tied for third place in the paper contest were Atul Puri from the University of Florida and Steven Wells from Portland State University. Presentations by Puri and Wells were titled "Molecular characterization and genetic variability of fluridone resistant hydrilla biotypes" and "Phenology of *Potamogeton crispus* (curlyleaf pondweed) in Blue Lake Oregon: formation and sprouting of turions in the Pacific Northwest and comparisons to North American studies," respectively. Mark Swinton, Rensselaer Polytechnic Institute, took the honors in the poster contest with his poster titled "Developing a detailed view of milfoil growth and nutrient acquisition." The student poster contest was a new event at APMS this year.

Other students competing in the contests included: Ryan Wersal, Wilfredo Robles, Joshua Chesier and Heather Theel, Mississippi State University; Gina Suescun, Pontifica Universidad Javeriana, Columbia; Annie Philip Jacob, Ohio State University; Brett Bultemeier and Eileen Ketterer, University of Florida; Derek Guenther, University of South Florida, and Vanessa Howard, Portland State University.

Special Thanks to our 46th Annual Meeting Sponsors

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Thanks to the following sponsors for contributing prizes for the silent auction and raffle events at the Portland, Oregon meeting

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Exhibitors at the 46th Annual Meeting

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Non-Profit Orgs: Aquatic Ecosystem Restoration Foundation; Aquatic Plant Control Research Program; Midwest APMS; University of Florida

Congratulations to BioSonics, Inc., winner of the 2006 APMS Exhibitor's Award

Washington Irrigation Tour Flowed

Following this year's APMS meeting in Portland, Oregon, USEPA Office of Pesticide Programs personnel and representatives from local agencies participated in a tour of the Columbia Basin Irrigation Project in Eastern Washington State. Guided by long-time local irrigation experts, Hugh McEachen (South Columbia Irrigation District) and Craig Conley (USBR), the group spent two days tracing flowage from the source to the end of the irrigation line - where run-off water is returned to the Columbia River. Jill Winfield (Cygnet Enterprises, Northwest Office) and Kurt Getsinger (USAERDC) assisted with the logistics and other organizational aspects of the tour.

The herbicides acrolein, copper and xylene are the primary tools for controlling the aquatic weeds and algae in these irrigation waters, but dredging, draw-downs, and even grass carp play a role in the overall management scheme of the system. Various nuisance and invasive weed species, and algae, can severely restrict the flow of water if the canals are not properly maintained.

Acrolein is currently undergoing re-registration for use in irrigation canals in the west, and science reviewers and re-registration managers from the USEPA were anxious to learn first-hand of the weed control issues and herbicide use patterns in western irrigation systems.

The group was joined by local grower J. J. Danz who was able to explain many of the water issues that impact the farming community. Crop production is a mainstay of the regional economy and is mostly dependent on irrigation. Mr. Danz noted: "People think of rain when they think of Washington State and they do not realize that the Columbia Basin would be desert land if it weren't for irrigation."

The State has over 7,500 miles of irrigation canals and ditches constructed by the Bureau of Reclamation starting in the early 1900s. The primary feature of the project is the famous Grand Coulee Dam which is located on the main stem of the Columbia River about 90 miles west of Spokane. The irrigation area extends southwards from the

dam for more than 120 miles to Pasco where the Columbia and Snake Rivers meet, forming a fertile, basin-like landscape. Of the 1 million acres of project land established for agricultural uses, only 500,000 acres have actually been developed to date.

At the conclusion of the tour, the USEPA group acknowledged that they gained a greater understanding of the interaction and interdependence between the irrigation districts, aquatic plant management, growers and how it all related to the economy of the region.

Hydrilla Found in Indiana

The presence of hydrilla in a northern Indiana lake was confirmed by John Madsen and Mike Netherland from samples sent to them in late August (2006). The plant is growing in Lake Manitou, near Rochester, IN. The lake is 713 acres with a maximum depth of 47 ft. and an average depth of 13 ft. The plants were found south and east of the north shore boat ramp at Indiana state highway 14. Other patches also have been found in the lake. Tubers were forming at this time; the strain has been tentatively identified as the monoecious form.

Jeremy Price, the assistant district fisheries biologist from North Judson, IN, noticed and collected the plant during survey work he was conducting for the Indiana LARE (Lake and River Enhancement) Program. Since a survey conducted by someone else the year before had noted elodea in the area, it is possible that the plant was actually hydrilla and that it has overwintered at least one year.

The Indiana Department of Natural Resources will spearhead an eradication effort. This follows the IDNR's initiation of an eradication program for Brazilian elodea earlier this year in Lake Griffy and some smaller ponds in southern Indiana. It also follows what turned out to be the first report of a *Cylindrospermopsis* bloom in the midwest (Ball Lake in NE Indiana). We all wonder what will come next! And why us?

If someone had asked me to predict a lake in Indiana where I thought hydrilla would show up first, it would have been Lake Manitou. This lake has a long history of battling Eurasian watermilfoil and

blue-green blooms. Access to the lake is very convenient from several major Indiana highways and I have a photo of about 10 boat trailers from that north shore parking lot with aquatic weeds hanging off of each one of them!

We are all indebted to Jeremy for his keen eye. Now we have to wonder and worry if the plant has spread to other sites.

Article Submitted by Dr. Carole Lembi
Purdue University, West Lafayette, IN

Plans Underway for NIWAW 8

The eighth annual National Invasive Weed Awareness Week (NIWAW 8) will be held in Washington, D.C., on February 25 through March 2, 2007. The purpose of this meeting is to bring together people and groups from across the country to focus national attention on the severe impacts caused by invasive weeds. Individuals and organizations interested in this issue are invited to participate in this event and help build on the success of NIWAW activities in previous years. NIWAW 8 events are designed to focus on the important roles the Federal government must play to help the U.S. deal with invasive weed problems.

NIWAW 8 highlights will include Kid's Fun Day at the United States Botanical Garden Conservatory, exhibits, briefings by USDA, DOI, the National Invasive Species Council, and much more.

NIWAW 8 is organized by the Invasive Weed Awareness Coalition, a Washington D.C.-based coalition dedicated to increasing awareness of invasive weed problems and the associated research and management needs. For more details please visit the NIWAW website: http://www.nawma.org/niwaw/niwaw_index.htm or contact Dr. Nelroy Jackson by phone (951) 279-7787 or by E-mail at nelroyjackson@sbcglobal.net.

The deadline date for NIWAW 8 meeting registration is February 1, 2007. The Four Points Sheraton Hotel on 1201 K Street NW, Washington, D.C., will be the Headquarters for NIWAW 8. Hotel reservations must be made by January 25, 2007.

USEPA Registration Updates

■ In August, 2006, the USEPA issued new tolerance limits for endothall in fish that allows for removal of the 3-day fishing restriction from all endothall aquatic herbicide labels. Submissions on this ruling are pending in New York and California. A Supplemental Label must be in possession of the applicator at the time of use. For more information, go to www.cerexagri.com.

■ In September, 2006, the USEPA amended the Section 18 label for continued use of the herbicide, penoxsulam, for controlling fluridone-tolerant hydrilla in Florida. For more information, contact SePRO Corporation or the Florida Department of Environmental Protection.

■ In July 2006, the re-registration eligibility decision document (RED) for copper products was issued by the USEPA. Several members of the APMS served on the Copper Task Force and played key roles in support of continued use of copper for controlling nuisance weeds and algae. In addition to the Task Force, the outpouring of end-use support and face-to-face follow-up with EPA by agency personnel, user groups, registrants and academics all assisted in getting recognition that copper algaecides/herbicides are necessary tools in aquatic plant management.

Welcome New APMS Members!

The Aquatic Plant Management Society welcomes the following new members since June 2006.

Amy Smagula, Concord, NH
Carlos Fernandes, Tampa, FL
Mark Mossler, Gainesville, FL

Think Newsletter

Deadline for March Issue:

February 14, 2007

Linda.S.Nelson@erdc.usace.army.mil

WSSA Undergraduate Research Award - 2007

The Weed Science Society of America has developed an Undergraduate Student Research Grant designed to encourage and involve exceptional undergraduates in agricultural research. Interested faculty members are encouraged to identify potential award candidates and discuss the possibility of sponsoring a research project. Awards may be used as a stipend, for research budget expenses (travel, supplies, etc.), to defer fees, to defray living expenses for summer research, or any combination of these items.

Award: Up to \$1000 for support of undergraduate research to be conducted over a minimum of one quarter/semester during 2007. This award may be used to defray the cost of research supplies or as a stipend. Support of a faculty sponsor is required. Awards will be made to the student, to be administered by the faculty sponsor's department.

Applicant: The applicant is an undergraduate student with a strong interest in Weed Science. Students in all related disciplines may apply.

To Apply: Applicants should prepare a 2-3 page research proposal including name, address, phone number, title, objective, experimental approach, discussion, budget and references. The discussion section of the proposal should describe the expected results and their possible significance to Weed Science. The student should provide a cover letter in which general academic and career goals are discussed. A copy of the student's academic transcripts must also be provided.

Faculty Sponsor: Any faculty member who is actively engaged in Weed Science research is qualified to be a sponsor. The faculty sponsor should review the research proposal with special attention to the budget; the distribution of funds should be approved by both the student and sponsor. In addition, the sponsor should provide a letter of reference including a statement of his/her willingness to supervise the proposed research and to provide needed space, equipment and supplies above those

requested in the proposal. The sponsor is encouraged to assist the student in presenting his/her results at a regional Weed Science Meeting.

How to Apply: The completed proposal, academic transcripts, cover letter and faculty letter of support should be forwarded to: Dr. John Jachetta, Dow AgroSciences, 9330 Zionsville Road, Indianapolis, IN 46268-1064; Phone: (317) 337-4686; Fax: (317) 337-4649; E-mail: jjjachetta@dow.com. Proposals should be received no later than November 10, 2006. Funding decisions will be made by January 26, 2007 and presented at the 2007 WSSA National Meeting General Session.

First APMS Student Representative Selected

Ryan Wersal, Mississippi State University, has been selected as the first student representative to serve on the APMS Board of Directors. Student members appointed Wersal based on his ideas regarding the role of a "student representative." The new position was approved by the Board during the post-conference Board meeting held August 19, 2006, in Portland, Oregon. The student representative will serve a 1-year term as a non-voting member on the Board and will attend and participate in all of the Board of Directors meetings during their term. Financial support to attend Board meetings will be provided by the APMS. Representation on the Board of Directors is the first step toward increasing student involvement in the Society.

Wersal is a native of Minnesota and completed both his B.S. and M.S. degrees in Biology from Minnesota State University, Mankato. He is currently pursuing a Ph.D. in Weed Science from the Plant and Soil Science Department at Mississippi State University and holds the position of Research Associate in the GeoResources Institute at Mississippi State.

Wersal said he appreciates the opportunity to serve the students of the APMS and is eager to play an active role in all decisions related to student affairs. Wersal also serves as the student representative from Mississippi State University with the Southern Weed Science Society.

46th Annual Meeting in Portland, Oregon

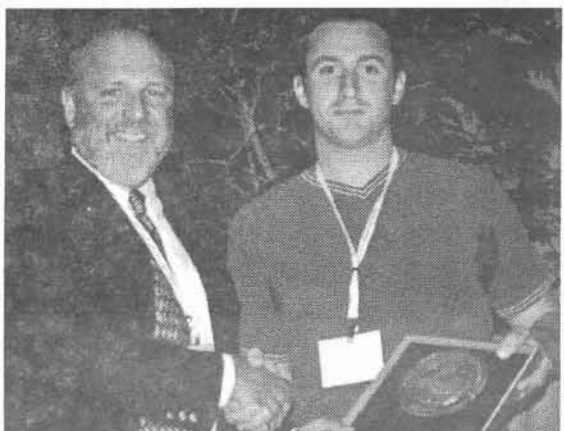
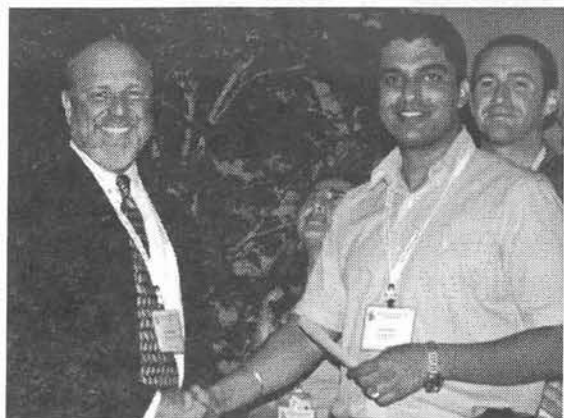


Don Doggett presented the Outgoing President award to Jeff Schardt (top left).

Steve Cockreham (top right) and John Rodgers (left) accept awards from Jeff Schardt for their service on the APMS Board of Directors.

The 2006-2007 APMS Officers and Board of Directors (below).





Jeff Schardt presents awards to Julie Nachtrieb (top left), Chris Mudge (top right), Atul Puri (2nd photo, left) and Mark Swinton (3rd photo, left). Nachtrieb, Mudge and Puri placed 1st, 2nd and 3rd in the paper contest, respectively. Steven Wells tied for 3rd place in the paper contest (photo not available). Mark Swinton accepted the honors for his win in the student poster contest.

Student Paper and Poster Contest participants (below). Front row left to right: Gina Suescun, Ryan Wersal, Chris Mudge, Brett Bultemeier, Annie Philip Jacob, and Julie Nachtrieb. Back row left to right: Josh Chesier, Mark Swinton, Wilfredo Robles, Atul Puri, Derek Guenther, Eileen Ketterer, and Heather Theel. Vanessa Howard and Steven Wells also participated in the contest but were not available for this photo. Well done, students!



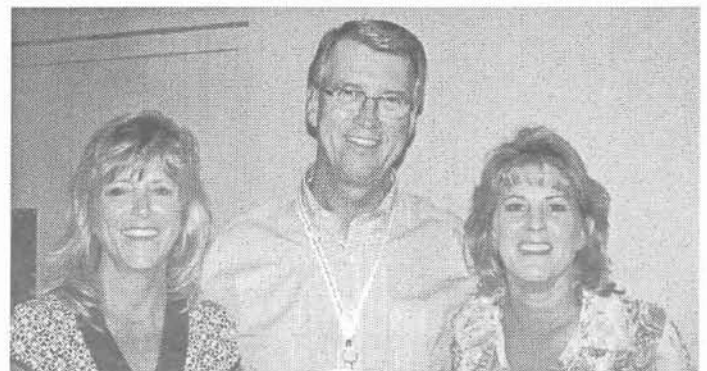


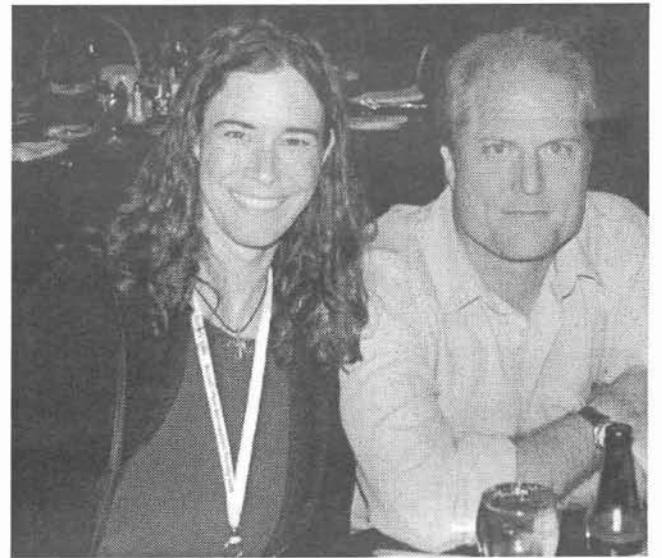
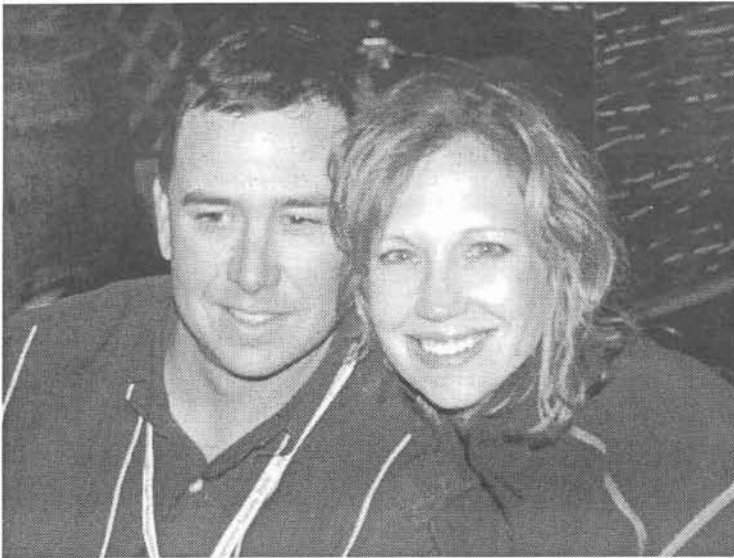
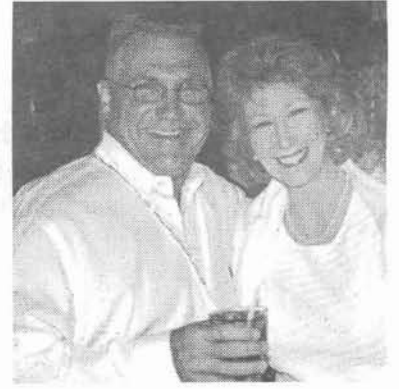
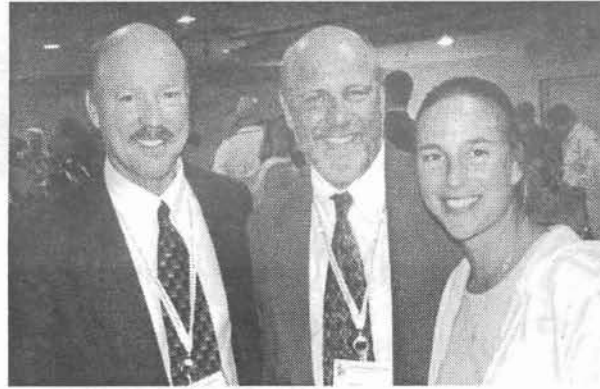
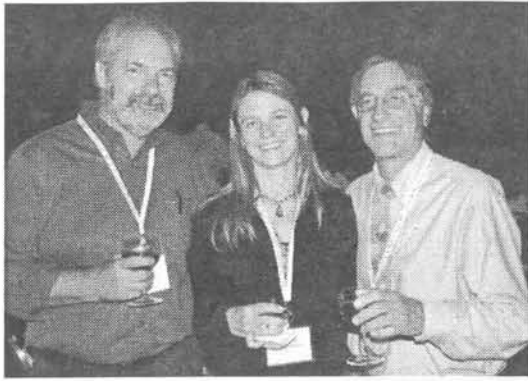
Dr. David Sutton received the Honorary Member Award for his many years of dedication and service to the Aquatic Plant Management Society and for his numerous contributions to the field of aquatics (top left). Dr. Sutton has been a member of the AMPS since 1969 and has served on the Board of Directors (1987-1991), as President (1990), and as Editor of the journal (1971-1978 and 2001-2004). He recently retired from the University of Florida after 35 years of service. Congratulations, David.

Mr. Bill Moore accepted the Max McCowen Friendship Award from Jeff Schardt (top right). Moore has been a member of the APMS since 1976 and has always been a good-will ambassador for the Society.



The President's Award was presented in honor of Vic Ramey during the Awards Banquet in Portland, Oregon. Vic passed away unexpectedly in November, 2005 after complications from heart surgery. Vic worked tirelessly on numerous education efforts related to aquatic plant management including: the APIRS database, Aquaphyte newsletter, training videos on aquatic plant management, photomurals and plant ID guides, to name a few. He was a friend to many of us in the Aquatic Plant Management Society and will be greatly missed.





Report on Biscayne Bay Restoration Available

Few reports have fully examined the economic value of removing exotic plants from natural ecosystems. A recent study by Donna J. Lee and Anafrida Bwenge at the University of Florida, revealed that since 1987, more than \$11 million has been spent on invasive plant removal and habitat restoration in Biscayne Bay, Florida. The study also examines the value of this restoration effort. Their results indicate a net gain or benefit from these restoration activities to be \$37 to \$41 million!

The report entitled "Estimating the benefits from restoring coastal ecosystems: a case study of Biscayne Bay" will be published as Chapter 7 in *Land Management Impacts on Coastal Watershed Hydrology*, Progress in Water Resources Series, A. Fares and a. El-Kadi, eds., WIT Press, Ashurst, UK, 2007.

A shortened version or Executive Summary of this paper can be accessed at the University of Florida IFAS website at: <http://edis.ifas.ufl.edu/FE662>
The full text version of the report can be accessed at: <http://invasive.ifas.ufl.edu>. Take a look...this is an excellent reference!

Got Journals?

Do you have missing issues of the *Journal of Aquatic Plant Management* that you want to replace? If so, you are in luck. To reduce our stock of stored journals, the APMS is offering to replace your missing journals for free. Some of the earlier issues are no longer available [Volumes 3, 4, 5, 26 (July), and 27 (Jan and July)], however most issues are on the shelf and can be readily shipped. Large orders (20 + journals) will require shipping costs to be paid by the recipient. The shipping cost to send a complete set of journals is typically \$16-20 if mailed in the U.S. Journals are subject to availability, so act now.

Send requests via E-mail to Linda Nelson at: Linda.S.Nelson@erdc.usace.army.mil. Indicate the

journal volume number(s), date of each issue, and your full mailing address.

As a reminder, Volumes 1 through 41 (1962 through 2003) are available as full-text articles in PDF format on the APMS website. Go to www.apms.org and click on "Publications." Articles are accessible via Tables of Contents or by using the search function. The APMS maintains a two-year lag between the current publication and online availability.

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FIRST CALL FOR PAPERS
THE AQUATIC PLANT MANAGEMENT SOCIETY

47th ANNUAL MEETING
NASHVILLE, TENNESSEE – JULY 15-18, 2007

You are invited to submit a title and abstract for the 47th Annual Meeting of the Aquatic Plant Management Society to be held July 15 – 18, 2007 at the Gaylord Orpyland Resort & Convention Center in Nashville, Tennessee. Presentations on all aspects of aquatic plant management, biology and ecology will be considered. Oral presentations are allotted a total of **15 minutes**. A special poster session is also scheduled.

An LCD projector/computer, projection screen, and a laser pointer will be available for oral presentations. **Only PC-based PowerPoint presentations will be accepted.** You will not be allowed to set up a personal computer to run your presentation. Free-standing display boards (4' by 4') will be provided for velcro-backed posters.

Please type the title, author(s), organization(s) and address on the form below exactly as you wish them to appear in the program. Submit this sheet along with an attached abstract of up to 350 words. Abstracts will be printed and provided to meeting participants.

The Submission Deadline for Title and Abstract is April 20, 2007

Presentation Format: Oral Presentation ☐ or Poster ☐ (Please check one)

Student Paper Competition: Yes ☐ No ☐ (Please check one)

Title of Paper/Poster: _____

1st Author: Name: _____ Affiliation: _____

Address: _____

City, State, Postal Code, Country: _____

2nd Author: Name: _____ Affiliation: _____

Address: _____

City, State, Postal Code, Country: _____

3rd Author: Name: _____ Affiliation: _____

Address: _____

City, State, Postal Code, Country: _____

Presenter Contact Information:

Name: _____

Phone: _____

Fax: _____

E-mail: _____

Submit Completed Form & Abstract To:

Jim Petta, APMS Program Chair
Syngenta Professional Products
5221 River Oaks Drive
Corpus Christi, TX 78413
E-mail: jim.petta@syngenta.com
Phone: 361-986-0009 Fax: 361-906-0346

NOTE: You will be required to submit a CD or flash drive with your final PowerPoint presentation upon registration. All presentations that include externally run programs, models, or special animation must be reviewed and approved by the Program Chair **1 week** before the meeting. No Exceptions!

~ CALENDAR OF EVENTS ~

Date:	Event:	Contact/Go to:
October 24-26, 2006	25 th Annual Meeting of the MidSouth APMS Orange Beach, AL	http://www.msapms.org
October 30- November 2, 2006	Florida Aquatic Plant Management Society St. Petersburg, FL	http://www.fapms.org
November 5-8, 2006	Southeastern Association of Fish and Wildlife Agencies (SEAWA) Norfolk, VA	http://www.seafwa2006.org
November 8-10, 2006	NALMS 2006 International Symposium Indianapolis, IN	http://www.nalms.org
December 11-14, 2006	North Central Weed Science Society Milwaukee, WI	http://www.ncwss.org
January 15-17, 2007	Northeast Aquatic Plant Management Society West Dover, VT	http://www.neapms.org
January 20-25, 2007	Southern Weed Science Society Nashville, TN	Contact Robert Smith raschwssa@aol.com
February 5-10, 2007	Weed Science Society of America San Antonio, TX	http://www.wssa.net
February 25- March 2, 2007	National Invasive Weed Awareness Week Washington, D.C.	http://www.nawma.org/niwaw/niwaw_index.htm
March 3-5, 2007	Midwest Aquatic Plant Management Society Milwaukee, WI	http://www.mapms.org
March 25-27, 2007	Western Aquatic Plant Management Society Coeur d' Alene, ID	http://wapms.org
April 16-18, 2007	Resistance 2007 Conference Rothamsted Research, Hatpenden, Hertfordshire, UK	http://www.rothamsted.ac.uk/research/resistance2007.html
April 22-27, 2007	XII International Symposium on Biological Control of Weeds Montpellier, France	http://www.cilba.agropolis.fr/symposium2007.html Contact: Andy Sheppard andy.sheppard@csiro-europe.org
April 22-27, 2007	2 nd National Conference on Ecosystem Restoration, Kansas City, MO	http://conference.ifas.ufl.edu/NCER2007/
June 6-9, 2007	Fourth North American Reservoir Symposium Atlanta, GA	Contact: Vic DiCenzo Vic.Dicenzo@dgif.virginia.gov
July 15-18, 2007	47 th Annual Meeting of the Aquatic Plant Management Society Nashville, TN	http://www.apms.org
September 17-21, 2007	9 th International Conference on the Ecology and Management of Alien Plant Invasions Perth, Australia	http://www.congresswest.com.au/emapi9/

2006-2007 APMS Officers, Directors, Committee Chairs and Special Representatives

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