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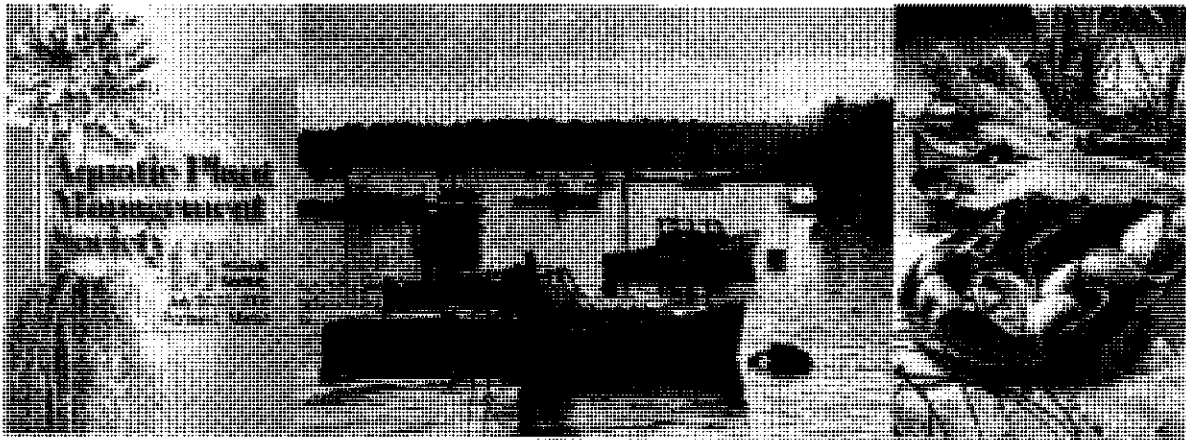
# AQUATIC PLANT NEWS

A Newsletter of The Aquatic Plant Management Society, Inc., Issue No. 73 June 2003  
Linda Nelson, Editor, USAERDC-EP-P, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199

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## Coming Soon - The 43<sup>rd</sup> Annual Meeting



Coming July 20<sup>th</sup> through 23<sup>rd</sup>, 2003 at the Holiday Inn by the Bay Hotel and Convention Center in Portland, Maine will be a very memorable 43<sup>rd</sup> Annual Meeting of the Aquatic Plant Management Society. So make your arrangements to attend now!

The Pre-Registration Form available in this newsletter can save you money and help us in planning for meeting functions. The meeting registration fees are \$200.00 for delegates and \$75.00 for guests (spouse, partner, child over 12 years of age), if received by July 1, 2003. After this date, registration fees at the door will be \$250.00 for delegates and \$100.00 for guests. Please complete the Pre-Registration Form and submit it to the APMS Treasurer prior to July 1, 2003.

The Pre-Final Program available in this newsletter reveals that our committees have been very busy developing a program of interesting technical presentations and exciting social events. The technical program will begin at 8:00 a.m. on Monday and end at 12:00 noon on Wednesday, and will include over 55 oral and poster presentations on aquatic plant research and management. Our social events will begin with the President's Reception in the New Hampshire Room on Sunday evening. As our official welcoming event, this reception is an excellent time to reacquaint with old friends, meet new friends, and just relax and enjoy great food and beverage. The Guest Tour will depart the hotel on Monday morning for a tour of historic Portland, a visit to Portland Head Light, Spring Point Light, Portland Museum of Art, and lunch at DiMillo's Floating Restaurant. The APMS Banquet on Tuesday evening will be a traditional New England clambake. The clambake will feature award winning clam

- Continued on next page...

### **43<sup>rd</sup> Annual Meeting - continued**

chowder, steamer clams and cultivated mussels, and Maine lobster caught by local fishermen. Barbequed chicken will be offered as an alternate to lobster and a children's menu will also be available. The APMS Awards Luncheon on Wednesday from 12:00 to 2:00 p.m. will wrap up our program. During the luncheon we will recognize those who have served and contributed to the Society, welcome new officers and directors, and present student paper and other awards. These special events are free to all registered delegates, registered guests, and to students participating in the student paper competition. Non-registered guests and students not participating in the paper competition may purchase individual tickets for these events at the registration desk.

Sleeping rooms are still available at the Holiday Inn by the Bay within the APMS room block from July 19 through July 23. To make your hotel reservation, call Holiday Inn by the Bay reservations at 207-775-2311 or 800-345-5050. You must make your reservation on or before June 18, 2003, and be sure to mention the Aquatic Plant Management Society, Inc. Special guest room rates are \$125.00 single or double per occupancy night plus applicable tax, currently 7%. All reservations must be guaranteed with a major credit card. Cancellation of reservation must be made by 6:00 p.m. on the day of arrival. Check in time is 4:00 p.m. and check out time is 12:00 noon.

For additional information check the APMS Web Site at [www.apms.org](http://www.apms.org)

This will be a great meeting, so plan to attend and bring the family!

**APMS Web Site: [www.apms.org](http://www.apms.org)  
For members only features use:**

**Username: APMS  
Password: Duckweed**

### **2002-2003 Sustaining Members**

Applied Biochemists, Inc.  
*Milwaukee, WI*

Aqua Solutions/Master's Dredging  
*Lawrence, KS*

Aquatic Control, Inc.  
*Seymour, IN*

Biosonics, Inc.  
*Seattle, WA*

Brewer International  
*Vero Beach, FL*

Cerexagri, Inc.  
*Philadelphia, PA*

Cygnat Enterprises, Inc.  
*Flint, MI*

Dow AgroSciences  
*Indianapolis, IN*

Electronic Data Solutions  
*Jerome, ID*

Griffin, LLC  
*Valdosta, GA*

Pump Systems/Solar Bee  
*Westminster, CO*

ReMetrix, LLC  
*Carmel, IN*

SePRO Corporation  
*Carmel, IN*

Syngenta Professional Products  
*Wilmington, DE*

UAP Timberland, LLC  
*Memphis, TN*

## **Get Ready For Portland ... A Message From The President**

As I write this letter, the war in Iraq is coming to an end. We hope and wish for all of our military personnel to arrive home safely and start leading a normal life and hopefully the same for the people of Iraq.

Ken Manuel has put together an excellent program for the upcoming meeting including Randall Stocker as the keynote speaker who will discuss where we are and what to look forward to in the future of aquatic plant management. I encourage all members and guests to find time to join us in Portland. I also encourage all of you to contact state and federal regulators and invite them to our meeting. This is the reason we move the meeting around the country, to make it easier for everyone in an area to attend that might not otherwise be able to participate.

I think one of our big concerns in this industry at this time, is that evil thing, "money." First, we saw the ACOE budget cut and the end of the Federal-State cost share program that was so successful for many years. Now, states are experiencing budget deficits and monies set aside for management of aquatic nuisance species, are being moved to the general fund and used for other projects. A good example of this is Florida, so watch your backs.

Mike Netherland received an interesting letter from one of our last years' students who was displeased with one of our speakers referring to the word "environmentalist" as a bad person. I guess I have to agree, the speaker sent the wrong message. I consider myself an environmentalist. The dictionary says an environmentalist is a person who seeks to protect the natural environment. Isn't that us? I hope so. If our aquatic plant management industry is to survive, we must continue to spread the word about the environmental stewardship that we provide.

A couple of tid bits..... we don't inherit the earth from our parents, we borrow it from our children. We all need to do what we can to preserve what we have by responsible stewardship of the earth backed by good science, the responsible use of herbicides, algicides, biological controls, cultural controls, and harvesting.

The winter APMS Board Meeting in Jacksonville was well attended and much was accomplished. I want to thank all of the Board members for their efforts under my tenure and I want to thank Jim Schmidt for working so hard on the By-laws and Operating Manual.

I received a nice letter from CAST thanking the APMS for being a member and also thanking Kurt Getsinger for participating on the CAST Board as the APMS representative. Kurt was a real asset to the CAST Board. Thank you, Kurt.

I don't know where the time goes but my year is coming to a close as President of this Society. When I joined APMS some 28-29 years ago, I never thought I would have the honor of being President. I want to thank everyone for giving me this opportunity. I feel good about the status of our Society. Our books and all regulatory papers are in order. Our By-laws and Operating Manual are in the process of being overhauled so your Society will be squeaky clean. I feel the APMS has a bright future and encourage all members to keep up the good fight. We will prevail. Volunteer for some committees and stay active because you do make a difference.

Thanks again to everybody that helped me through this year.

**Richard Hinterman, APMS President**

## ***Cofrancesco Receives Award for Invasive Weeds Research***

The Invasive Weeds Awareness Coalition presented Dr. Al Cofrancesco their national award for an individual at an evening reception held at the Smithsonian Institute Castle during the National Invasive Weed Awareness Week on February 24, 2003. The citation read: "For exceptional efforts and dedication in the battle against invasive plants in the United States." The Coalition consists of over 20 societies and companies from throughout the United States that have problems with invasive plant species.

Congratulations, Al !!!

## PRE-FINAL PROGRAM

### Summary for Sunday, July 20

- 8:00 am - 5:00 pm APMS Board of Directors Meeting (*Oxford and Somerset Rooms*)  
2:00 pm - 5:00 pm Meeting Registration (*Lobby*)  
3:30 pm - 6:30 pm Field Trip to Hyland Lake: Demonstration of a Digital Hydroacoustic/GPS System for Mapping Submersed Aquatic Plants; Point of Contact, Bruce Sabol; Presented by U.S. Army Engineer Research and Development Center, Environmental Laboratory, BioSonics, Inc., and ReMetrix, LLC  
4:00 pm - 7:00 pm Exhibits Set-up (*Vermont, Connecticut, and Rhode Island Rooms*)  
4:00 pm - 7:00 pm Posters Set-up (*Vermont, Connecticut, and Rhode Island Rooms*)  
5:00 pm - 6:00 pm Presenter's Preview Room (*Board Room*)  
7:00 pm - 9:00 pm President's Reception (*New Hampshire Room*)  
*Sponsor: SePRO Corporation*

### Summary for Monday, July 21

- 6:15 am - 7:45 am Breakfast and Video Presentation "Breakthroughs in Management Technology," Presented by Syngenta Professional Products - Open to All Interested Meeting Delegates (*Casco Bay Exhibit Hall*)  
7:30 am - 8:00 am Continental Breakfast (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*  
7:30 am - 5:00 pm Meeting Registration (*Lobby*)  
7:30 am - 5:00 pm Presenter's Preview Room (*Board Room*)  
8:00 am - 5:00 pm Exhibits Open (*Vermont, Connecticut, and Rhode Island Rooms*)  
8:00 am - 5:00 pm Posters Open (*Vermont, Connecticut, and Rhode Island Rooms*)  
8:00 am - 11:55 am Session I: Plenary (*New Hampshire and Massachusetts Rooms*)  
9:00 am - 3:00 pm Guest Tour and Luncheon (*Meet in Lobby*)  
*Sponsor: Applied Biochemists*  
9:40 am - 10:05 am Refreshment Break (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*  
11:55 am - 1:15 pm Lunch  
11:45 am - 1:15 pm AERF Luncheon and Meeting - AERF Members and Invited Guests (*Cumberland, Kennebec, and Lincoln Rooms*)  
1:15 pm - 4:20 pm Session II: Corps of Engineers Invasive Species Research and Operations (*New Hampshire and Massachusetts Rooms*)  
2:55 pm - 3:20 pm Refreshment Break (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*  
4:20 pm - 5:00 pm APMS Annual Business Meeting (*New Hampshire and Massachusetts Rooms*)  
5:30 pm - 8:30 pm Field Trip to Hyland Lake: Demonstration of a Digital Hydroacoustic/GPS System for Mapping Submersed Aquatic Plants; Point of Contact, Bruce Sabol; Presented by U.S. Army Engineer Research and Development Center, Environmental Laboratory, BioSonics, Inc., and ReMetrix, LLC

### Session I: Plenary (*New Hampshire and Massachusetts Rooms*)

**Moderator: Richard Hinterman**, APMS President, Cygnet Enterprises, Inc., Flint, MI

- 8:00 am Opening Remarks  
**Richard Hinterman**, APMS President, Cygnet Enterprises, Inc., Flint, MI  
8:05 am Announcements  
**Ken Manuel**, APMS President Elect and Program Chair, Duke Power Company, Huntersville, NC  
8:10 am Presidential Address - Building on a Solid Foundation  
**Richard Hinterman**, APMS President, Cygnet Enterprises, Inc., Flint, MI

- 8:40 am Keynote Address - "So, You Do Aquatic Plant Management for a Living... Are You a Lawyer, a Lobbyist, or a Fund-Raiser?"  
**Randall Stocker**, Director, Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL
- 9:20 am Progress Through Innovative Management  
**Michael D. Moore**, Aquatic Ecosystem Restoration Foundation (AERF), Lansing, MI
- 9:40 am **Refreshment Break** (*Vermont, Connecticut, and Rhode Island Rooms*)
- 10:05 am Update on Federal Liaison Activities  
**Rob Hedberg**, National and Regional Weed Science Societies, Washington, DC
- 10:25 am Pest Alarm: Preparing for Early Detection and Rapid Response for Invasive Aquatic Plants  
**Lars W. J. Anderson**, USDA-ARS Exotic and Invasive Weed Research Unit, University of California-Davis, Davis, CA
- 10:45 am Expanding Functional Roles of Vascular Aquatic Plants: *Schoenoplectus californicus* as an Example  
**John H. Rodgers, Jr.**, Cynthia L. Murray-Gulde, and G. M. Huddleston III, Department of Environmental Toxicology, Clemson University, Pendleton, SC
- 11:05 am Hydrilla... "The Perfect Weed" Gets a Foot-Hold in New England  
**Gerald N. Smith** and Marc Bellaud, Aquatic Control Technology, Inc., Sutton, MA
- 11:25 am Linking Exotic Aquatic Plants and Epiphytic Cyanobacteria to Avian Vacuolar Myelinopathy (AVM)  
**Susan B. Wilde**, Alan J. Lewitus, Belle W. Baruch Institute for Coastal Research, University of South Carolina and SCDNR Marine Resources Research Institute, Charleston, SC, Thomas M. Murphy, Charlotte Hope, SCDNR Wildlife Diversity, Green Pond, SC, Anna H. Birrenkott, William W. Bowerman, Department of Forestry and Natural Resources, Faculty of Environmental Toxicology, Clemson University, Clemson, SC, and John Hains, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Calhoun Falls, SC
- 11:55 am **Lunch**

**Session II: Corps of Engineers Invasive Species Research and Operations** (*New Hampshire and Massachusetts Rooms*)  
**Moderator: TBA**

- 1:15 pm Overview of the Biological Control Technology Area Within the Aquatic Plant Control Research Program  
**Michael J. Grodowitz**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
- 1:35 pm APCRP Chemical Control Research: A National R&D Agenda  
**Kurt D. Getsinger**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
- 1:55 pm An Overview of Ecological Research Within the APCRP  
**R. Michael Smart**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX
- 2:15 pm The Corps of Engineers Aquatic Nuisance Species Research Program  
**Alfred F. Cofrancesco**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

- 2:35 pm Challenges in Controlling Floating Aquatic Plants Within the Jacksonville District  
**Charles E. Ashton**, U.S. Army Corps of Engineers, Jacksonville District, Jacksonville, FL
- 2:55 pm **Refreshment Break** (*Vermont, Connecticut, and Rhode Island Rooms*)
- 3:20 pm Manipulation of Sediment Nitrogen via Dewatering and Rehydration: Implications for Macrophyte Control and N Dissipation  
**William F. James**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Spring Valley, WI, **John W. Barko**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and **Harry L. Eakin**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Spring Valley, WI
- 3:40 pm Economic Impacts of Aquatic Plant Management on Recreational Angling: Results From Three South Carolina Reservoirs  
**Jim E. Henderson** and **James P. Kirk**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
- 4:00 pm Operational Technology for Rapid Detection and Mapping of Submersed Aquatic Plants  
**Bruce Sabol**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, **Ryan Moore**, ReMetrix, LLC, Carmel, IN, and **Robert McClure**, BioSonics, Inc., Seattle, WA
- 4:20 pm **APMS Annual Business Meeting**
- 5:00 pm **Adjourn**

#### Summary for Tuesday, July 22

- 6:30 am - 8:00 am APMS Regional Chapters Presidents' Breakfast (*Oxford and Somerset Rooms*)
- 6:30 am - 8:00 am APMS Past President's Breakfast (*York Room*)
- 7:30 am - 8:00 am Continental Breakfast (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*
- 7:30 am - 5:00 pm Meeting Registration (*Lobby*)
- 7:30 am - 5:00 pm Presenter's Preview Room (*Board Room*)
- 8:00 am - 5:00 pm Exhibits Open (*Vermont, Connecticut, and Rhode Island Rooms*)
- 8:00 am - 5:00 pm Posters Open (*Vermont, Connecticut, and Rhode Island Rooms*)
- 8:00 am - 11:45 am Session III: Aquatic Plant Biology, Ecology, Restoration, and Biocontrol (*New Hampshire and Massachusetts Rooms*)
- 9:40 am - 10:05 am Refreshment Break (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*
- 11:45 am - 1:15 pm Lunch
- 1:15 pm - 5:00 pm Session IV: Aquatic Plant Biology, Ecology, Restoration, and Biocontrol (*New Hampshire and Massachusetts Rooms*)
- 2:55 pm - 3:20 pm Refreshment Break (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*
- 5:30 pm - 10:00 pm APMS Banquet - New England Clambake (*Meet in Lobby*)  
*Sponsor: Griffin, LLC*

#### Session III: Aquatic Plant Biology, Ecology, Restoration and Biocontrol (*New Hampshire and Massachusetts Rooms*)

**Moderator: TBA**

- 8:00 am Trace Element Translocation in the Body of *Equisetum fluviatile*. Growing in Submerged Sulfide Tailings  
**Elena I. Hozhina**, Department of Geological Sciences, University of Manitoba, Winnipeg, MB, and **M.Y. Kropatcheva**, United Institute of Geology, Geophysics and Mineralogy, Novosibirsk, Russia

- 8:20 am Phosphate and Nitrate Uptake Using Duckweed (*Lemna minor* L.) (Student Presentation)  
**Matt E. McKenzie**, Dean F. Martin, Institute for Environmental Studies, Department of Chemistry, University of South Florida, Tampa, FL, and Daniel P. Smith, Department of Civil and Environmental Engineering, University of South Florida, Tampa, FL
- 8:40 am Evolution and Success of Cooperative Revegetation Projects in Central Florida Lakes  
**David R. Douglas**, Rue S. Hestand III, Boyd Z. Thompson, Bruce V. Jagers, Florida Fish and Wildlife Conservation Commission, Eustis Fisheries Research Laboratory, Eustis, FL, and Craig T. Mallison, Florida Fish and Wildlife Conservation Commission, Southwest Regional Office, Lakeland, FL
- 9:00 am Longevity of Triploid Grass Carp in the Santee Cooper Reservoirs, South Carolina  
**James P. Kirk**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and Robin Collier-Sochia, U.S. Army Corps of Engineers, Charleston District, Charleston, SC
- 9:20 am Hybrid Watermilfoil (*Myriophyllum spicatum* X *M. sibiricum*; Haloragaceae) Distribution and Population Structure in Minnesota and Wisconsin (Student Presentation)  
**Michael L. Moody** and Donald H. Les, Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT
- 9:40 am **Refreshment Break** (Vermont, Connecticut, and Rhode Island Rooms)
- 10:05 am Declines and Lack of Declines of Eurasian Watermilfoil Associated With the Milfoil Weevil  
**Raymond M. Newman**, Department of Fisheries, Wildlife and Conservation Biology, University of Minnesota, St. Paul, MN, Darren M. Ward, Department of Biological Sciences, Dartmouth College, Hanover, NH, and Michelle D. Marko, Water Resources Science, Department of Fisheries, Wildlife and Conservation Biology, University of Minnesota, St. Paul, MN
- 10:25 am Impact of Deltamethrin Spray on Adults of *Cyrtobagous salviniae*, the Biocontrol Agent of the Kariba Weed, *Salvinia molesta*  
**Chandrasekar Naidu Kurugundla**, Water Affairs, Maun Botswana and Baraedi Jay, Water Affairs, Gaborone, Botswana
- 10:45 am Use of Real-Time PCR for the Rapid, Specific Detection of *Hapalosiphon* sp. From AVM-Affected Reservoirs (Student Presentation)  
**Sarah K. Habrun**, College of Charleston and Belle W. Baruch Institute for Coastal Research, University of South Carolina, Charleston, SC, Susan B. Wilde and Alan J. Lewitus, Belle W. Baruch Institute for Coastal Research, University of South Carolina and SCDNR Marine Resources Research Institute, Charleston, SC, Jason W. Kempton, SCDNR Marine Resources Research Institute, Charleston, SC, and Alan Strand, Grice Marine Laboratory, Charleston, SC
- 11:05 am Estimating Shoot Emergence for *Arundo donax*  
**David F. Spencer**, G. G. Ksander, and D. Thornby, USDA-ARS Exotic and Invasive Weeds Research Unit, University of California-Davis, Davis, CA
- 11:25 am Constructed Wetlands in Detention Ponds; Improving Water Quality and Preventing Harmful Algal Blooms (Student Presentation)  
**Larissa J. Mason**, Environmental Studies Program, College of Charleston and SCDNR Marine Resources Research Institute, Charleston, SC, Alan J. Lewitus, Susan B. Wilde, Belle W. Baruch Institute for Coastal Research, University of South Carolina and SCDNR Marine Resources Research Institute, Charleston, SC, and Marianne K. Burke, USDA Forest Service, Southern Research Station, Center for Forested Wetlands Research, Charleston, SC.
- 11:45 am **Lunch**

**Session IV: Aquatic Plant Biology, Ecology, Restoration, and Biocontrol** (*New Hampshire and Massachusetts Rooms*)

**Moderator: TBA**

- 1:15 pm      Role of Allelopathy in Determining Plant Community Composition in Ledbetter Embayment Mudflat of Kentucky Lake (*Student Presentation*)  
**Melissa Engleman** and William Spencer, Department of Biological Sciences and Hancock Biological Station, Murray State University, Murray, KY
- 1:35 pm      Blue-green Algal Problems in the Midwest  
**Carole A. Lembi**, Kathryn Wilkinson, and Alejandra Cota, Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN
- 1:55 pm      Evaluation of an Aquatic Bacterium as a Potential Microbial Algicide  
**H. Lynn Walker**, School of Biological Sciences, Louisiana Tech University, Ruston, LA
- 2:15 pm      Sensitivity of Mat-Forming Cyanobacteria to a Potential Biological Control Agent, Bacterium SG-3 (*Student Presentation*)  
**Kathryn Wilkinson**, Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN, H. Lynn Walker, School of Biological Sciences, Louisiana Tech University, Ruston, LA, and Carole A. Lembi, Department of Botany and Plant Pathology, Purdue University, West Lafayette, IN
- 2:35 pm      Development of *Mycoleptodiscus terrestris* as a Bioherbicide for Management of the Submersed Macrophyte, *Hydrilla verticillata*  
**Judy F. Shearer**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, Mark A. Jackson, USDA-ARS-NCAUR Crop Bioprotection Research Unit, Peoria, IL, and Mark A. Heilman, SePRO Corporation, Carmel, IN
- 2:55 pm      **Refreshment Break** (*Vermont, Connecticut, and Rhode Island Rooms*)
- 3:20 pm      Introduction of Exotic Vascular Plants (*Pistia stratiotes* and *Eichhornia crassipes*) in the West Nakdong River, South Korea (*Student Presentation*)  
**Kim Gu Yeon**, Department of Biology, Pusan National University, Busan, South Korea, Hae Soon Yoon, Department of Biology, Dong-A University, Busan, South Korea, and Gea Jae Joo, Department of Biology, Pusan National University, Busan, South Korea
- 3:40 pm      Interactions of *Egeria* (*Egeria densa*) and American Pondweed (*Potamogeton nodosus*) Grown Under Four Light Regimes  
**Lars W. J. Anderson**, Wailun Tan, and Aaron O'Callaghan, USDA-ARS Exotic and Invasive Weed Research Unit, University of California-Davis, Davis, CA
- 4:00 pm      Submersed Aquatic Plant Communities in Maryland Reservoirs: Management and Control (*Student Presentation*)  
**Todd Chadwell** and Katharina Engelhardt, Center for Environmental Science, Appalachian Laboratory, University of Maryland, Frostburg, MD
- 4:20 pm      Hydroperiod Influence on Competition Between *Panicum repens* and *Eleocharis cellulose*  
**Dian H. Smith**, University of North Texas, Denton, TX, and R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX
- 4:40 pm      Evaluation of Four Sonar Formulations: Influence of Sediment Type on Fluridone Residuals and Efficacy vs. *Hydrilla* (*Student Presentation*)  
**Tyler J. Koschnick** and William T. Haller, Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL, and Michael D. Netherland, SePRO Corporation, Carmel, IN
- 5:00 pm      **Adjourn**



### Summary for Wednesday, July 23

- 7:30 am - 8:00 am Continental Breakfast (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*
- 7:30 am - 12:00 pm Meeting Registration (*Lobby*)
- 7:30 am - 12:00 pm Presenter's Preview Room (*Board Room*)
- 8:00 am - 5:00 pm Exhibits Open and Tear-down (*Vermont, Connecticut, and Rhode Island Rooms*)
- 8:00 am - 5:00 pm Posters Open and Tear-down (*Vermont, Connecticut, and Rhode Island Rooms*)
- 8:00 am - 12:00 pm Session V: Mechanical Control and Chemical Control (*New Hampshire and Massachusetts Rooms*)
- 9:40 am - 10:05 am Refreshment Break (*Vermont, Connecticut, and Rhode Island Rooms*)  
*Sponsor: Cerexagri, Inc.*
- 12:00 pm - 2:00 pm Awards and Installation of Officers Luncheon (*Casco Bay Exhibit Hall*)  
*Sponsor: Syngenta Professional Products*
- 2:00 pm - 5:00 pm APMS Board of Directors Meeting (*Oxford and Somerset Rooms*)
- 2:00 pm - 5:00 pm APCRP Review, Corps of Engineer's Only (*York Room*)

### Session V: Mechanical Control and Chemical Control (*New Hampshire and Massachusetts Rooms*)

Moderator: TBA

- 8:00 am The Use of an Automated Weed Device as a Localized Control Method  
**Kevin Kretsch**, Lake Restoration Inc., Rogers, MN
- 8:20 am Carfentrazone ethyl: A Potential New Herbicide for Aquatic Plant Management  
**Tyler J. Koschnick** and Bill Haller, Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL
- 8:40 am Sensitivity of Dotted Duckweed (*Landoltia punctata*) to Diquat (Reward®) in Florida  
**Les Glasgow**, Syngenta Crop Protection Inc., Vero Beach, FL, **Tyler Koschnick**, and **Bill Haller**, Center for Aquatic and Invasive Plants, University of Florida, Gainesville, FL
- 9:00 am Selective Whole-Lake Management of *Myriophyllum spicatum* (Eurasian Watermilfoil) With Low-Dose Treatment of Fluridone Herbicide: Houghton Lake, Michigan  
**Mark A. Heilman**, Michael D. Netherland, SePRO Corporation, Carmel, IN, **Craig Smith**, South Florida Natural Resources Center, Everglades National Park, Homestead, FL, **Kurt D. Getsinger**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, **Douglas R. Henderson**, **Ryan Moore**, ReMetrix LLC, Carmel, IN, and **Paul Hausler**, Progressive AE, Grand Rapids, MI
- 9:20 am Parrot's Feather and Alligator Weed Versus Triclopyr Amine  
**Deborah E. Hofstra**, **P. D. Champion**, and **T. Dugdale**, National Institute of Water and Atmospheric Research (NIWA), Hamilton, New Zealand
- 9:40 am **Refreshment Break** (*Vermont, Connecticut, and Rhode Island Rooms*)
- 10:05 am The Reward Rapid Release™ Test: A Water Management Tool for Sensitive Use Sites Such as Reservoirs, Canals, and Lakes  
**James F. Brady**, Syngenta Crop Protection Inc., Greensboro, NC, and **Jim Petta**, Syngenta Professional Products, New Braunfels, TX
- 10:25 am Reward AccuGel™: A Precision Placement Formulation of Diquat for the Management of Invasive and Nuisance Plants in Both Static and Flowing Systems  
**Rence Keese**, Syngenta Crop Protection Inc., Carmel, IN, **Jim Petta**, Syngenta Professional Products, New Braunfels, TX, and **Les Glasgow**, Syngenta Crop Protection Inc., Vero Beach, FL
- 10:45 am Impact of Sonar Treatments on Turion Production of Hydrilla and Curlyleaf Pondweed  
**Michael D. Netherland**, SePRO Corporation, Carmel, IN

- 11:05 am      Hyperspectral Mapping of Submerged Aquatic Vegetation in Lake Rosalie, FL  
**Oliver Weatherbee**, 3Di Technologies, Easton, MD
- 11:25 am      APMS Regional Chapters Reports: Brazil, Florida, MidSouth, Midwest, Nile Basin, Northeast,  
South Carolina, Texas, Western  
**Chapter Officer or Delegate**
- 12:00 pm      **Adjourn 43<sup>rd</sup> Annual Meeting**

**Posters** (*Vermont, Connecticut, and Rhode Island Rooms*)

U.S. Army Corps of Engineers Aquatic Plant Control Research Program

**Robert C. Gunkel, Jr.**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

APCRP Chemical Control Research: A National R&D Agenda

**Kurt D. Getsinger** and Angela Poovey, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Ecological Attributes of Exotic and Native Aquatic Plant Communities

**Gary O. Dick**, Joe R. Snow, and David R. Honnell, University of North Texas, Denton, TX, and R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX, and Dian H. Smith, University of North Texas, Denton, TX

An Overview of Ecological Research Within the APCRP

**R. Michael Smart**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX

New Advancements and Understandings in the Use of Insect Biological Control for the Management of Aquatic Plants

**Michael J. Grodowitz**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Major Blockages in the Okavango Delta, Botswana

**Chandrasekar Naidu Kurugundla**, Water Affairs, Maun, Botswana and Baraedi Jay, Water Affairs, Gaborne, Botswana

Herbicides and Prescribed Burning for Control of *Phragmites australis* at St. Johns Marsh, Michigan

**Linda Nelson**, Kurt Getsinger, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, Lee Ann Glomski, Purdue University, West Lafayette, IN, Ernie Kafcas, Michigan Department of Natural Resources, Mt. Clemens, MI, Stuart Kogge and Michael Nurse, Wetland and Coastal Resources, Inc., Lansing, MI

Does the Alien *Potamogeton crispus* Hybridise With the Native *P. ochreatus* In New Zealand?

**Deborah E. Hofstra**, National Institute of Water and Atmospheric Research (NIWA), Hamilton, New Zealand, and C. E. C. Gemmill, Centre for Biodiversity and Ecological Research (CBER), Department of Biological Sciences, University of Waikato, Hamilton, New Zealand

Tissue C and N for Water Hyacinth in the Sacramento Delta: Implications for Biological Control

**David F. Spencer** and G. G. Ksander, USDA-ARS Exotic and Invasive Weeds Research Unit, University of California-Davis, Davis, CA

Pathogen Research on Aquatic Plants

**Judy F. Shearer**, Linda Nelson, and Dwilette McFarland, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Fragment Production of *Hydrilla verticillata* by a Boat Motor

**Chetta S. Owens**, Analytical Services, Inc., U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX, John Madsen, Minnesota State University, Mankato, MN, and R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville, TX

Modeling Competition Between Submersed Macrophyte Species

**Elly P. H. Best**, Gregory A Kiker, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and William F. James, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Spring Valley, WI

Impact of Waterfowl Foraging on *Scirpus triqueter* in the Nakdong River Estuary, South Korea

**Kim Gu Yeon**, Jang Mi Yun, Young Sang Kim, and Gea Jae Joo, Department of Biology, Pusan National University, Busan, South Korea

Evaluation of Two Methods for Applying Dilute Acetic Acid for American Pondweed Winter Bud Control in the Nevada Irrigation District, California

**David F. Spencer**, USDA-ARS Exotic and Invasive Weeds Research Unit, University of California-Davis, Davis, CA, C. L. Elnore, Weed Science Program, Department of Vegetable Crops, University of California-Davis, Davis, CA, G. G. Ksander, USDA-ARS Exotic and Invasive Weeds Research Unit, University of California-Davis, Davis, CA, and J. A. Roncoroni, Weed Science Program, Department of Vegetable Crops, University of California-Davis, Davis, CA

Role of Flooding Stress Tolerance in Determining Plant Community Composition in Ledbetter Embayment Mudflat of Kentucky Lake

**Joell Hill** and William Spencer, Department of Biological Sciences and Hancock Biological Station, Murray State University, Murray KY

Role of Competition in Determining Plant Community Composition in Ledbetter Embayment Mudflat of Kentucky Lake

**Dava McCann** and William Spencer, Department of Biological Sciences and Hancock Biological Station, Murray State University, Murray KY

Effects of Soils and Hydrology in Determining Plant Community Composition in Ledbetter Embayment Mudflat of Kentucky Lake

**Ronald L. Elder** and William Spencerr, Department of Biological Sciences and Hancock Biological Station, Murray State University, Murray KY

## **2003 APMS Officer/Director Nominees**

### **Biographical Information**

#### **Vice President: Jeffrey D. Schardt**

Jeffrey Schardt received his B.S. in Biology from Penn State University in 1976. He is currently the Environmental Administrator of the Aquatic Plant Management Section for the Florida Department of Environmental Protection (FDEP), Bureau of Invasive Plant Management. Mr. Schardt's career with the FDEP spans 27 years. During this time he worked on grass carp research, served as the aquatic plant permitting administrator, and currently administers the aquatic plant control operations for Florida public waters (460 waters - 1.25 million acres; \$25 million annual expenditures). Mr. Schardt has served as President (2000) and Director (1995-1997) for the Florida Aquatic Plant Management Society and currently serves as Director (2001-2003) and Chair of the Education and Outreach Committee for the APMS.

#### **Treasurer: Robert C. Gunkel, Jr.**

Robert Gunkel received his Bachelor of Science degree in Limnology and Biology from the University of Central Florida in 1978. He completed graduate courses in ecology, environmental toxicology, statistics, and computer science at the University of Central Florida, Mississippi State University, and Louisiana State University. Mr. Gunkel began his career in 1978 as a Biologist with the U.S. Army Engineer Research and Development Center, Environmental Laboratory, Aquatic Processes and Effects Group, conducting investigations in reservoir limnology, physical and chemical processes in reservoirs and tailwaters, water quality field techniques and monitoring procedures, reservoir sediment quality, and reservoir water quality management. Presently, he is the Program Manager for the Corps of Engineers Aquatic Plant Control Research Program (APCRP) and Water Operations Technical Support (WOTS) Program. In addition, he is the Associate Technical Director for Environmental Sciences and Associate Director for the Center for Invasive Species Research and Restoration Technology (CISRRT). Mr. Gunkel currently serves as an APMS Director (2001-2003) and Chair of the Local Arrangements and Site Selection Committees.

#### **Director: John H. Rodgers, Jr.**

John Rodgers is currently a professor in the Department of Forestry and Natural Resources at Clemson University and serves as Co-Director of the Clemson Environmental Institute. He earned his Ph.D. degree at Virginia Polytechnic Institute and State University in 1977 and M.S. and B.S. from Clemson University in 1974 and 1972, respectively. He worked for two years at East Tennessee State University, ten years at the University of North Texas, nine years at the University of Mississippi, and has been at Clemson University for six years. Dr. John Rodgers has participated in APMS for almost 25 years and he is also currently active in the South Carolina Aquatic Plant Management Society. He has organized technical sessions at APMS meetings, assisted with recruitment of members, and assisted with local arrangements for APMS meetings. His students have presented papers at numerous APMS meetings. Throughout his career, Dr. Rodgers has been actively involved in service activities as well as in research on vascular and nonvascular aquatic plants and management of nuisance aquatic vegetation. For example, he currently chairs the science advisory committee for the state of California and U.S. EPA Aquatic Plant Monitoring Program in response to the Talent Decision. He would appreciate an opportunity to serve the APMS and its members to expand the scope of the Society and increase participation of students in the APMS.

#### **Director: Michael D. Netherland**

Mike Netherland began working in the field of aquatics in 1987 on a project to determine the impact of plant growth regulators on hydrilla and Eurasian watermilfoil. He received a M.S. degree in Botany and Plant Pathology in 1989 from Purdue University and a Ph.D. in Agronomy in 1999 from the University of Florida Center for Aquatic and Invasive Plants. He worked at the U.S. Army Engineer Research and Development Center in Vicksburg, MS as a Research Biologist for the Chemical Control Technology Team from 1989 through 1998. His research focused on improving efficacy and selective use of herbicides for controlling invasive aquatic species with an emphasis on submersed plants. Recent research interests have involved determination of population and sprouting dynamics of plant propagules following various plant management strategies, development of new herbicide formulations and delivery systems, and development of pre- and post-treatment plant assays to monitor the progress of large-scale herbicide applications. Dr. Netherland has worked for the SePRO Corporation since 1999 and he is currently the Research Leader for Aquatics. He directs in-house company research activities and contract research for support of current EPA-registered aquatic herbicides and algicides. Dr. Netherland has presented technical papers at numerous APMS meetings and has recently served on the Board of Directors for the Midwest APMS. He currently serves as Chair of the APMS Student Affairs Committee.

## DEMONSTRATION OF A DIGITAL HYDROACOUSTIC/GPS SYSTEM FOR MAPPING SUBMERSED AQUATIC PLANTS

Participant spots are available for a field demonstration of a submersed aquatic plant detection and mapping system to be held during the 2003 APMS Conference in Portland, ME. Participants will see the equipment in operation, observe processing of data, and generation of maps.

Separate demonstrations are planned for Sunday, July 20 (3:30-6:30 p.m.) and Monday, July 21 (5:30-8:30 p.m.) at nearby Highland Lake. Shuttle bus transportation to and from the lake will be provided from the conference hotel. To reserve a spot contact Bruce Sabol, and please indicate your preferred day.

Bruce Sabol  
U.S. Army Engineer Research and Development Center  
Vicksburg, MS  
Phone: (601) 634-2297; FAX: (601) 634-3726  
Email: Bruce.M.Sabol@erdc.usace.army.mil

This demonstration is jointly sponsored by the U.S. Army Engineer Research and Development Center, BioSonics, Inc., and ReMetrix LLC. It is intended to highlight technology developed under the U.S. Army Aquatic Plant Control Research Program and successfully transitioned to industry and the aquatic plant management community.

### ● Exhibitor and Sustaining Member Notice ●

**Please Take Note:** Specific shipping documents will be required when sending exhibit display materials to the Holiday Inn by the Bay.

No deliveries of displays or materials will be accepted before July 17, 2003.

The necessary shipping documents will be sent with the exhibit booth space agreements. You may also visit the APMS web site at [www.apms.org](http://www.apms.org) or call Joe Bondra at (810) 744-0540 for more information. Exhibits will be located in the Vermont, Connecticut, and Rhode Island Rooms. Set-up will begin on Sunday, July 20, 2003, at 4:00 p.m. and must be completed by 7:00 p.m. Tear-down will be Wednesday, July 23, 2003, 8:00 a.m. - 5:00 p.m.

Please note a change in the fee/dues structure. A Sustaining Membership includes the option to exhibit and an annual membership but does not include a meeting registration. An exhibit fee includes a meeting registration but does not include an annual membership.

Joe Bondra, Exhibit Committee Chair

## Proposed 2003 APMS Bylaws Changes Announcement

### Background

Following a 2001/02 review of the APMS Operating Manual by the Past President's Advisory Committee, it was concluded that a number of procedures and practices had evolved within our organization requiring further clarification and/or justification in the Bylaws. These issues and concerns were brought to the attention of the Board of Directors at the July, 2002 Board Meeting. A thorough review and revision of this document was assigned to the Bylaws & Resolutions Committee.

Proposed changes were presented at the February, 2003 Board Meeting in Jacksonville, FL. Considerable time was spent discussing proposed changes to ensure clarity, accuracy, and intent. Items requiring a vote were taken up by the Board and voted upon at that meeting. The Board directed the Bylaws & Resolutions Committee to incorporate the changes as discussed into a final, proposed Bylaws re-write for publishing in or with the June 2003 Newsletter.

### Change Highlights

Many of the "changes" made were matters of clarifying duties and procedures. However, it was noted that a number of items of relative importance in the operation of the Society were actually missing or very poorly defined. These items required a formal vote by the Board. The enclosed Proposed Revisions to the APMS document tracks the changes to be voted upon at the July, 2003 Annual Meeting in Portland, ME. Additions are underlined and deletions have a line drawn through them. Vertical lines in the right-hand margins also identify the changes. A summary of significant changes follow:

- A surety bond for all Officers and Directors is required. This has been in practice for a number of years, yet the Bylaws only required it for the Treasurer and Secretary.

- Required Committee assignments per previous Bylaws directives are now also listed under Officer duties for clarification.

- New Officers and Directors begin their terms at the close of the Annual Meeting (rather than the "Business Meeting"). This is consistent with our new practice to conclude the meeting with a luncheon at which time the new Board is introduced and the departing Board members are honored.

- A provision has been included for procedures to approve a proxy assignment in the event that a Board Member is unable to attend a Board Meeting.

- The heading of ARTICLE XII has been changed from "Dues" to "Membership." The current Bylaws

simply list membership categories, dues amounts, and payment requirements. Proposed changes include the addition of a "Subscription Member" category; incorporates the Honorary Member category and qualifications (previously ARTICLE XVI) under this portion of the Bylaws; defines voting privileges (not previously covered); provides a payment schedule for dues; and allows dues changes to be made without a Bylaws change providing they are proposed and approved by the Board of Directors and voted upon by the membership at the Annual Meeting.

- Committee Chairs are to be appointed by the incoming President. Currently the President is responsible for appointing all committee members.

- The Bylaws & Resolutions Committee is charged with the responsibility of ensuring approved Bylaws changes are incorporated into the official document of the Society. Previously, some approved changes could have been missed due to Board and Committee transitions.

- The Exhibits Committee is now officially charged with the responsibility of recommending exhibit fees and providing recognition of contributors at the meeting.

- The Local Arrangements Committee and Site Selection Committee have been combined into one, and renamed the Meeting Planning Committee. Shared responsibilities of these two Committees of the same people, have become the rule rather than the exception in recent years. Their responsibilities have also been further clarified in the Bylaws.

- The Past President's Advisory Committee now specifies that it includes only those who are "members in good standing." They will no longer have involvement in approving Honorary Membership, as this task was ill defined and difficult to achieve.

- The Website Committee was added as voted upon by the membership in 2002.

- R.I.S.E. and B.A.S.S. have been added as examples of organizations to which Special Representatives might be appointed.

- The phrase "and public interest" has been added to ARTICLE XVI Section A of SOCIETY SCHOLASTIC ENDOWMENT as an added goal for these expenditures. Section B has also been amended whereby expenditures will no longer be limited to "only" supporting scholarships. This is consistent with our current practice of utilizing some funds for elementary education projects.

Continued on next page....

## **Proposed 2003 APMS Bylaws Changes Continued....**

- ARTICLE XVII DISSOLUTION has been added to the Bylaws. For whatever reason, there was no provision for the scenario whereby "what if" the APMS were to end its existence. The proposed wording is "borrowed" from several of our Regional Chapters.

- Finally, a record of Bylaws Amendment dates has been reconstructed and added to the closing of the document.

### **Notice**

In accordance with ARTICLE XVII of the current Bylaws, a copy of the proposed Bylaws amendments are enclosed and notice is hereby given to the membership that a vote on these changes shall be conducted the morning of July 21, 2003 at the Annual Business Meeting of the Society.

Respectfully Submitted,

Jim Schmidt, Chair - Bylaw & Resolutions Committee

## **APMS - AERF Graduate Assistantships A Great Success!**

Several years ago, a group of concerned individuals recognized that declining R&D budgets were resulting in a paucity of students trained in aquatic plant management. Without at least a trickle of such trained professionals - for employment in operations, research, industry, and regulatory positions - the future of our field could be in jeopardy. The group decided that if our limited resources could be pooled to provide an adequate source of funds for graduate education - similar to what might be offered in the disciplines of agriculture or engineering - we might attract some interest from university faculty.

Therefore, in an effort to recruit promising students into the aquatic plant sciences, the APMS and the Aquatic Ecosystem Restoration Foundation (AERF) collaborated to offer two competitive graduate assistantships. Funds were provided by the AERF, the APMS - and its Regional Chapters (FAPMS, MSAPMS, MAPMS, NEAPMS, SCAPMS, TAPMS, and WAPMS) - to generate enough resources for substantial stipends - \$34,000 in 1999 and \$40,000 in 2001. These assistantships have been supporting full-time graduate students conducting research in aquatic herbicides, algicides, and aquatic ecology related to management of nuisance vegetation.

Investigators from eight institutions across the country (Auburn, Florida, Maryland, Michigan State, North Texas, Washington, Washington State, and Woods Hole) submitted proposals for consideration. All of the proposals were subjected to careful review and evaluation by an expert panel of judges

representing all aspects of aquatic plant management. From the outset, the goals of this project were to provide an adequate funding base to competitively recruit and train new students in aquatic plant sciences, with the desire of placing them in aquatic management related professional positions. We are pleased to report that through the cooperation of the funding partners and others, these goals are being met.

The first stipend was awarded to Dr. Mary Bremigan, Michigan State University, for her work entitled, *The indirect effects of Sonar application on lake food webs*. Two masters-level students were supported by this work: Ray Valley, currently with the Minnesota DNR Fisheries; and Steve Hanson, now employed with Professional Lake Management in Michigan. In addition, several manuscripts based on the results of their research have been published in peer-reviewed journals.

The second stipend was awarded to Dr. Katia Engelhardt, University of Maryland, for her work entitled, *Controlling non-native submersed aquatic macrophyte species in Maryland reservoirs: plant competition mediated by selective control*. Mr. Todd Chadwell is being supported by this stipend, as he works toward a M.S. degree.

Thanks and congratulations to the AERF, the APMS, the Regional Chapters, and the judges for making this project a great success!

## ***WSSA Undergraduate Research Award Available for 2004***

The Weed Science Society of America (WSSA) 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 2004. 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 majoring 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 should 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 46268-1054**  
**Phone: (317) 337-4686**  
**FAX: (317) 337-4649**  
**E-mail: [jjjachetta@dow.com](mailto:jjjachetta@dow.com)**

Proposals should be received no later than **November 17, 2003**. Funding decisions will be made by January 25, 2004 and presented at the 2004 WSSA National Meeting Awards Banquet.

### **Excerpts from *The Washington Report*, May 2003** **Rob Hedberg, Director of Science Policy**

There has been a diverse mix of weed science related activity recently in Washington that has ranged from announcements of new funding opportunities, to requests for public comments on federal actions, to the release of a new study documenting the economic importance of herbicides to U.S. agriculture.

**Grant Applications Requested for \$30 Million Integrated Program.** In mid-May the Cooperative State Research, Education, and Extension Service (CSREES) announced a request for applications for approximately \$30 million for fiscal year 2003 to be competitively awarded through the National Research Initiative (NRI) Integrated Program. The NRI Integrated Program is distinct from other NRI programs because of its emphasis on integration of research, education, and extension, and its goal of supporting relatively large projects that provide more intensive support to the research, extension, and education

system. Optional letters of intent are requested by June 30, 2003. Applications must be received by close of business on July 30, 2003.

In awarding these grants, priority will be given to projects that are: 1) multi-state, multi-institutional, or multi-disciplinary; or 2) projects that integrate agricultural research, extension, and education. Grants will be awarded for work focusing on: 1) Functional Genomics of Agriculturally Important Organisms (animals, insects and mites, microbes, and plants); 2) Air Quality; 3) Human Nutrition and Obesity; 4) Animal and Plant Biosecurity, and; 5) National Training Programs for Agricultural Homeland Security. For details go to: [http://www.recusda.gov/1700/funding/rfanri\\_integrated\\_program\\_03.htm](http://www.recusda.gov/1700/funding/rfanri_integrated_program_03.htm)

Continued on next page...



## *The Washington Report continued....*

Areas of the program that deserve special attention from weed scientists include the biosecurity and homeland security training areas. It is hoped that these two areas will provide funding to shore up some of the local expertise that is needed in all the pest management disciplines as well as outreach education.

**Economic Research Service Launches Initiative on Invasive Species Costs.** In early April, the United States Department of Agriculture-Economic Research Service (USDA-ERS) announced a new program to focus on the economic aspects of invasive species. In addition to holding a two-day workshop on the topic in mid-May, they also announced a new \$2 million extramural grant program that promises to jump start economic analysis of the invasive species issue. Details of the ERS initiative can be found at: <http://www.ers.usda.gov/briefing/invasivespecies/>

Although the deadline for the first round of applications is June 2003, it is very likely that there will be a similar call for proposals next year that will provide opportunity for follow through on several projects that are currently in process to examine the economic impacts of weeds. To date, well documented information on the costs of invasive weeds has been difficult to find although this information could have multiple uses. Public and private land managers need good economic information to guide management priorities, herbicide registrants need this information to support cost-benefit analysis as part of the registration process, and public policy makers want to know the severity of the problem before committing public funds to weed management.

**Comments on EPA Strategic Plan.** Earlier this year the EPA released a draft strategic plan for the next 5 years and asked for public comment. Overall the plan was a good, results-oriented plan that had tangible, obtainable objectives. We reviewed the plan and submitted comments on section 4 of the plan covering activities of the Office of Pesticide Programs.

Our comments stated that in general, the tone of the plan should do more to place the risks associated with pesticide use and genetically engineered plants within the context of fixing the very significant problems caused by a wide array of pests. Our comments also expressed concern that there was no mention of "invasive species" included in the plan. Although the plan discussed managing the effect of pesticide exposure on 15 high priority threatened and endangered (T&E) species, it made no mention of the effect of invasive species on T&E species. Invasive species are the second leading cause contributing to the "listing" of threatened and endangered species so this omission seemed to be a significant oversight. Consequently, the comments recommended several ways that the Office of Pesticide Programs and the Office of Research and Development

could plan to help mitigate the impact of invasive species, especially on endangered species. Copies of our comments are available by request.

**New Report on the Value of Herbicides.** On April 24, Leonard Giannessi and Sujatha Sankula of the National Center for Food and Agricultural Policy released a new study, "Value of Herbicides in U.S. Crop Production" at a press conference here in Washington. This study has a great deal of information that could be useful in public presentations and for students studying weed science and crop production. The report can be found at: <http://www.ncfap.org/benefits.htm>

**Recordkeeping Requirements for Certified Applicators Under Review.** The USDA Agricultural Marketing Service (USDA-AMS) has announced plans to review the recordkeeping requirements for certified pesticide applicators. Certified applicators currently must maintain records of restricted use pesticide applications for 2 years, provide Federal or State officials access to the records, and also make them available to licensed health care professionals when needed to treat pesticide exposure.

The review will determine whether the rule should be kept as is, amended or rescinded (consistent with the objectives of applicable statutes) to minimize impacts on small businesses. A complete description of the program can be found at: <http://www.ams.usda.gov/science/sdpr.htm>

**EPA Seeks Comments on Special Emergency Use Pesticide Programs.** The Environmental Protection Agency is seeking public comments on two aspects of its Section 18, Emergency Use Pesticide Program. One aspect is a pilot project being launched this year to help the EPA evaluate the process for issuing emergency exemptions. The pilot is limited to "reduced-risk" pesticides and will allow applicants to re-certify that emergency conditions continue to exist in following years without reapplying for an exemption. It will also allow a new, tiered approach to document "significant economic loss" that should significantly reduce paperwork.

The second aspect is another potential improvement to provide exemptions for certain pest resistance management purposes. The EPA is considering these improvements to reduce the burden to both applicants and EPA, to help the Agency make decisions more quickly, and to facilitate resistance management. Comments are due by June 23, 2003. For details see: <http://www.epa.gov/fedrgstr/EPA-PEST/2003/April/Day-24/p10169.htm> or contact Joseph Hogue, Office of Pesticide Programs at (703) 308-9072 or [Hogue.Joe@EPA.gov](mailto:Hogue.Joe@EPA.gov)

*...To read the Washington Report in its entirety, go to the APMS web site and click on Washington Report...*

## 2003 APMS Officers, Directors, Committee Chairs and Special Representatives

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Director	Mark D. Sytsma	(503) 725-3833	sytsmam@pdx.edu
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<u>Committee</u>	<u>Chair</u>	<u>Telephone</u>	<u>E-Mail</u>
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Education and Outreach	Jeff Schardt	(850) 245-2815	jeff.schardt@dep.state.fl.us
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Site Selection	Greg Reynolds	(360) 607-6191	greg.reynolds@syngenta.com
Student Affairs	Robert Gunkel	(610) 634-3722	gunkelr@wes.army.mil
Web Site	Mike Netherland	(317) 580-8288	miken@sepro.com
	Mike Grodowitz	(601) 634-2972	grodowm@wes.army.mil

### Special Representatives

B.A.S.S. Representative	Michael Masser	(979) 845-7473	mmasser@wfscgate.tamu.edu
C.A.S.T. Representative	Kurt Getsinger	(601) 634-2498	getsink@wes.army.mil
N.A.L.M.S. Representative	R. Michael Smart	(972) 436-2215	smart@wes.army.mil
W.S.S.A. Representative	Greg MacDonald	(352) 392-1811	gemac@mail.ifas.ufl.edu

### THINK NEWSLETTER

**To submit articles, dates for upcoming events,  
letters to the Editor, or other newsworthy items, contact**

**Linda Nelson, Newsletter Editor**

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

**Phone: 601-634-2656**

**Deadline for next issue: September 15, 2003**

----- UPCOMING MEETINGS AND EVENTS - 2003 -----

<u>DATE</u>	<u>EVENT</u>	<u>LOCATION</u>	<u>CONTACT</u>
June 13-18	American Society of Limnology and Oceanography Summer Meeting	Savannah, GA	Dr. Denise Breitburg Phone: 410-586-9711 www.aslo.org
August 10-14	American Fisheries Society Annual Meeting	Quebec City, Quebec Canada	Betsy Fritz Phone: 301-897-8616, ext. 212 bfritz@fisheries.org www.fisheries.org
August 13-15	South Carolina Aquatic Plant Management Society	Cypress Gardens Moncks Corner, SC	Chris Page Phone: 803-755-2836 www.scapms.org
September 15-17	Texas Aquatic Plant Management Society	Bahia Mar Resort South Padre Island, TX	Larry Hartman larryh@sepro.com -or- Chetta Owens chetta@laerf.org www.tapms.org
October 14-16	Florida Aquatic Plant Management Society	Adams Mark Daytona Beach Resort	P. J. Myers Phone: 863-533-8882 pjmyers@tampabay.rr.com
October 22-23	MidSouth Aquatic Plant Management Society	Auburn University Hotel & Dixon Conference Center Auburn, AL	Eric Barkemeyer Phone: 800-661-7909 ebarkemeyer@cygnetenterprises.com
November 3-7	Invasive Plants in Natural and Managed Systems (IPINAMS): Linking Science and Management - AND - 7 <sup>th</sup> International Conference on the Ecology and Management of Alien Plant Invasions – a joint meeting	Wyndham Bonaventure Resort and Spa Ft. Lauderdale, FL	www.esa.org/ipinams-emapi7/
November 4-8	North American Lake Management Society (NALMS)	Foxwoods Resort & Casino Mashantucket, CT	Elizabeth Herron, Conference Chair emh@uri.edu www.nalms.org

## Welcome New Members.....

The Aquatic Plant Management Society is pleased to welcome the following new members. Welcome to APMS!

Gary D. Curl, Mendham, NJ  
Sheri Moor, Madison, WI  
Les Glasgow, Vero Beach, FL

Steve Tennant, Hilton Head Island, SC  
Melissa Gugliotti, Glastonbury, CT  
Robert M. Herrick, Philadelphia, PA

# 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.

Originally The Hyacinth Control Society, Inc. when founded in 1961, The Aquatic Plant Management Society, Inc., is a respected source of expertise in the field of biological, mechanical, and chemical aquatic plant management and aquatic plant sciences. The Society has grown to include several regional and state chapters. Through these affiliates, annual meetings, newsletters, and the *Journal of Aquatic Plant Management*, members keep abreast of the latest developments in the field.

The objectives of the Society are to assist in promoting the management of nuisance aquatic plants, to provide for the scientific advancement of members of the society, to encourage scientific research, to promote university scholarship, and to extend and develop public interest in the aquatic plant science discipline.

*Send this form to:*

*Aquatic Plant Management Society, Inc.  
Post Office Box 1477  
Lehigh, FL 33970-1477*

## Application for Membership

Name of Applicant \_\_\_\_\_

Current Title and Business or Institution Name & Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Zip Code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

*There are three regular classes of membership available to applicants, according to the Charter of our Society which was adopted in 1961. These membership classes are:*

ACTIVE MEMBERSHIP ..... \$ 50.00  
STUDENT MEMBERSHIP ..... \$ 20.00  
COMMERCIAL SUSTAINING MEMBERSHIP ..... \$ 500.00

*Each of these membership classes provides an individual (Active or Student) or an organization (Commercial Sustaining) a single vote in society elections, and single copies of both the Journal and the newsletter. Commercial sustaining membership also includes exhibit space at the annual meeting. In addition to these membership classes, the Society also provides a Subscription Membership class for those wanting to be added to the mailing list for the Journal only (i.e., Libraries). This class does not include the newsletter, nor are subscribers allowed to vote in Society elections.*

LIBRARY SUBSCRIPTION ..... \$ 70.00

AMOUNT OF REMITTANCE \$ \_\_\_\_\_ (Make checks to APMS, Inc.)

Please check the following to request additional information on APMS regional chapters!

Florida APMS     Mid-South APMS     Midwest APMS     Nile Basin APMS  
 South Carolina APMS     Western APMS     Texas APMS     Northeast APMS  
 Brazil APMS

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