



AQUATIC PLANT NEWS

A newsletter of The Aquatic Plant Management Society, Inc., Issue No. 67 June 2001
Mike Stewart, Editor, CEERD-EE-A, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199

It's Time to Make Reservations for Minneapolis

It's time to make your reservations for the 41st Annual Meeting of the Aquatic Plant Management Society. This year our meeting is being held in Minneapolis, Minnesota. The Marriott City Center, located in the heart of downtown Minneapolis, is the site for our meeting, July 15-18, 2001. Our committee's have been very busy developing a program of diverse and interesting technical presentations, exhibits featuring the latest products and services, and entertaining and exciting social events. See the enclosed Draft Program. For your leisure time Minneapolis offers an abundance of activities, including museums, historic attractions, major league sports, recreation, live theater, shopping, and exciting nightlife.



We have two functions planned off site. On Monday, a guided tour for registered spouses and guests will highlight Minneapolis and St. Paul's major points of interest and beautiful sights. The tour will include stops at the Minneapolis Sculpture Garden, Minnehaha Falls, and the Cathedral of St. Paul. The tour will conclude with lunch at Forepaugh's restaurant, a restored Victorian home serving traditional French and American cuisine. The annual APMS Banquet on Wednesday evening will

recapture the thrill of a river cruise on a stern wheel paddleboat. Our cruise on the Upper Mississippi River will travel through the Upper St. Anthony Falls lock, and we will enjoy spectacular views of the Minneapolis skyline, St. Anthony Falls, and the Old Stone Arch Bridge.

Your hotel reservation must be made on or before June 25, 2001. For reservations, call the Marriott City Center directly at 612-349-4000 or Marriott Reservations at 800-228-9290 (in the US and Canada), and be sure to mention that you are part of the Aquatic Plant Management Society. Special guest room rates are \$110.00 single or double, \$120.00 triple, and \$130.00 quad occupancy per night plus applicable taxes, currently 12%. All reservations must be accompanied by a first night room deposit or guaranteed with a major credit card. The Marriott City Center will not hold any reservation unless secured by one of the above methods.

Meeting registration fees received before June 30, 2001 are \$150.00 for delegates and \$65.00 for guests (spouse, partner, child over 12 years of age). After this date, registration fees at the door will be \$175.00 for delegates and \$80.00 for guests. You can save some money and help us in planning for meeting functions when you use the enclosed Pre-Registration Form. For more meeting information, please visit the APMS Web Site at "<http://www.apms.org>". This will be a great meeting, so plan to attend and bring the family. And remember. Make your reservations today!

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<i>(Good thru June 30, 2001)</i>	

APMS Officer/Director Nominees Biographical Information

Vice President: Ken L. Manuel

With degrees from both University of Alabama and Auburn University, Ken Manuel has been a professional entomologist for 30 years. For the last 21 years, Ken has been employed by Duke Power Company and is currently Program Leader for the company's Reservoir Aquatic Plant Management and Mosquito Control programs. Ken has served on the executive boards of several professional societies, including the APMS, the South Carolina APMS, the North Carolina Mosquito and Vector Control Association, and the North American Benthological Society. He has published in the scientific literature on insects and plants, and he has given presentations to many professional, outdoor, and civic groups. He currently chairs the APMS ad hoc Web Site committee.

Editor: John D. Madsen

Dr. John D. Madsen is an Assistant Professor in the Department of Biological Sciences at Minnesota State University in Mankato, Minnesota. In addition to his teaching responsibilities, John conducts research on the ecology, management, and restoration of aquatic plants across the United States. John has a Bachelor of Science degree from Wheaton College, and Master of Science and Doctor of Philosophy degrees in Botany from the University of Wisconsin-Madison. John has been the Editor of the Journal of Aquatic Plant Management since 1997. Before that, he was Associate Editor of the Journal of Aquatic Plant Management (1996-1997), Chair of the Student Affairs Committee (1996-1997), and member of the Finance Committee. He was also on the Board of Directors for the Texas Aquatic Plant Management Society (1993-1994), and served as Chair of the Scholarship and Awards Committee of Texas APMS (1993-1996). He has been a member of APMS since 1988.

Secretary: Linda S. Nelson

Dr. Linda S. Nelson is a Research Biologist for the Environmental Laboratory of the U.S. Army Corps of Engineers Research and Development Center, located in Vicksburg, Mississippi. Linda's research focuses on evaluating chemical techniques for managing nuisance aquatic and wetland vegetation. Linda has a Bachelor of Science degree in Biology from University of South Dakota, a Master of Science degree from Iowa State University in Crop Production and Physiology, and a PhD in Weed Science from Purdue University. Linda has been an APMS member since 1992, and currently serves as a member of the Publications Committee and as Chair of the Student Affairs Committee.

Director: Gerald Adrian

Gerald Adrian has been Aquatics Sales Manager for Cerexagri (formerly Atochem North America) since 1996. Prior to this, Gerald was Marketing Manager for Atochem North America from 1992-1996, and Sales Representative in Arkansas and Oklahoma from 1984-1992. Gerald graduated from Texas Tech University in 1979. A long-time member of APMS, Gerald is currently Vice President of the Northeast APMS chapter, where he also serves on the Site Selection Committee. Gerald is a board member of the AERF, and represents Cerexagri on the RISE Aquatic Herbicide Working Group.

Director: John W. Barko

Dr. John W. Barko is currently assigned to the Environmental Laboratory of the U.S. Army Corps of Engineers Research and Development Center, located in Vicksburg, Mississippi, as the Technical Director for Environmental Sciences (Civil Works). In this capacity, he has oversight responsibility for all environmental research conducted by the Corps' seven research laboratories. John is also Program Manager for the CE Aquatic Plant Control Research Program and the CE Water Quality Research Program. John received his PhD in Limnology and Aquatic Botany in 1975 from Michigan State University. Outside the CE, he is an adjunct professor at both the University of Mississippi and the University of Wisconsin. His current research interests include aquatic ecology, wetland ecology, ecosystem dynamics, reservoir and riverine hydrodynamics, geochemistry, aquatic chemistry, and ecological modeling. As a member of APMS since 1979, John has been active on several committees and has previously served as the APMS

SUSTAINING MEMBERS 2000 - 2001

Applied Aquatic Management, Inc.
Eagle Lake, FL

Allen Instruments/Supplies, Inc.
San Marcos, CA

Applied Biochemists, Inc.
Milwaukee, WI

Aquarius Systems
North Prairie, WI

Aquatic Nuisance Plant Control
Oxford, NC

Becker Underwood
Ames, IA

Biosonics, Inc.
Seattle, WA

Brewer International
Vero Beach, FL

Cerexagri
Philadelphia, PA

Clean Lakes, Inc.
Martinez, CA

Cygnnet Enterprises, Inc.
Flint, MI

Diversified Waterscapes, Inc.
Laguna Niguel, CA

Electronic Data Solutions
Jerome, ID

Griffin, LLC
Valdosta, GA

ReMetrix
Carmel, IN

Resource Management, Inc.
Tumwater, WA

SePRO Corporation
Carmel, IN

Zeneca Professional Products
Wilmington, DE

Proposed changes to the APMS Bylaws

The Board of Directors has approved changes to the Society's Bylaws to facilitate continued growth of the Society's highly successful Scholastic Endowment Fund and to strengthen activities of the Education Outreach Committee. These changes were submitted by the Bylaws Committee for Board approval, which was granted by vote at the February 2001 mid-winter Board of Directors meeting.

As required under Article IX of the Bylaws, this announcement has been prepared to notify voting members of the Society of these proposed changes. All voting members (i.e. Active, Student, Honorary, and Sustaining) should familiarize themselves with these proposed changes as they will be put before the full membership for vote during the 2001 Business Meeting held during this summer's annual meeting. The Bylaws were last amended July 1999.

The proposed changes are in **bold type**. In short, they deal with oversight of funds raised by the Scholastic Endowment Committee, and clarify that it is appropriate to expend some of these funds for education and outreach activities.

Article IV, Section F. Treasurer. The Treasurer shall collect and receipt all dues assessments and other income. The Treasurer shall deposit promptly all funds, **including funds received for the Scholastic Endowment Fund**, of the Society in such depository as shall be approved and designated by the Board of Directors. Checks in payment of obligations of this Society shall be signed by the Treasurer, who shall under the direction of the Board of Directors, pay all bills of this Society and make such other disbursements as are necessary and incidental to the operation of the Society. The Treasurer shall at the annual meeting of the Society, and if directed by the Board of Directors at special meetings, make full and true report of the financial condition of this Society. The Treasurer shall provide for an annual audit of all books, vouchers, and necessary documents of the Society prior to each annual meeting of the Society, the cost of said audit to be borne by the Society. This audit shall be conducted by a Certified Public Accountant (CPA), and shall include an Opinion rendered by same CPA as to the condition of the Society's financial books and records. The financial statements as prepared during the audit shall be included as part of the annual proceedings of the Society. This officer shall perform such other duties as are usually incident to the office of Treasurer and as may be assigned by the Board of Directors. The Treasurer shall before assuming office be required to make and execute a good and sufficient surety bond in an amount of not less than the total assets of the Society, conditioned on the faithful performance of the duties of this office, the expense of said bond to be borne by the Society.

Article XIII, Section A, Number 13. Scholastic Endowment Committee. This committee shall be responsible for coordinating fund raising activities **and managing funds** for the Society Scholastic Endowment Fund. The committee shall consist of not less than four (4) members, one of whom shall be the Chair of the Student Affairs Committee.

Article XVII, Society Scholastic Endowment, Section B. The Aquatic Plant Management Society Scholastic Endowment Fund shall be maintained in a separate account administrated by the Board of Directors and shall **only** be used to support scholarships, student activities and outreach programs to further the goals of in the Society. Expenditures shall be made following recommendation by the Student Affairs Committee and/or the **Education and Outreach Committee** with the approval of the Board of Directors.

Pre-Final Program
FORTY-FIRST ANNUAL MEETING
THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.
 MARRIOTT CITY CENTER - MINNEAPOLIS, MINNESOTA, JULY 15-18, 2001

SUNDAY JULY 15, 2001		ROOM
8:00 am - 5:00 pm	APMS Board of Directors Meeting	Lake Nokomis
8:00 am - 6:00 pm	Exhibit Set-up	Ballroom 3
8:00 am - 6:00 pm	Poster Set-up	Deer Lake & Elk Lake
12:00 noon - 5:00 pm	Registration	Prefunction Area
8:00 am - 6:00 pm	Presenter's Slide Viewing	Silver Lake
7:00 pm - 9:00 pm	President's Reception - All Delegates and Guests Invited	St. Croix
MONDAY JULY 16, 2001		
8:00 am - 5:00 pm	Registration	Prefunction Area
8:00 am - 5:00 pm	Exhibits	Ballroom 3
8:00 am - 5:00 pm	Posters	Deer Lake & Elk Lake
8:00 am - 6:00 pm	Presenter's Slide Viewing	Silver Lake
9:00 am - 2:00 pm	Spouse/Guest Tour and Luncheon	Off Site
11:00 am - 11:45 am	APMS Annual Business Meeting	Ballroom 4
11:45 am - 1:00 pm	AERF Luncheon and Meeting - Members and Invited Guests	Lake Calhoun Room
Session I	PLENARY	Ballroom 4
Presiding	Jim Schmidt - President APMS	
8:00 am	Call to Order	
8:00 am	Opening Announcements: David Tarver , Program Chair/President-Elect APMS Bob Gunkel , Local Arrangements Chair APMS	
8:15 am	Presidential Address - The "Business" of Aquatic Plant Management - Why Do We Do What We Do? Jim Schmidt , President, APMS, Applied Biochemists, Germantown, WI	
8:40 am	APMS Regional Chapter Reports - Florida - Midwest - Mid-South - South Carolina - Texas - Western - Nile Basin - Northeast Selected Chapter Officer or Delegate	
9:45 am	National Invasive Species Management Plan - Roadmap to the Future? Randall Stocker , UF/IFAS Center for Aquatic Invasive Plants Gainesville, FL	
10:00 am	BREAK / REFRESHMENTS - EXHIBITS - POSTER VIEWING	
10:15 am	Update on Federal Liaison Activities, WSSA Rob Hedberg	
10:30 am	The Aquatic Ecosystem Restoration Foundation - Five Years of Progress Michael Moore , Executive Director, AERF, Lansing, MI	
10:45 am	BASS Representative	

11:00 am - 11:45 am	APMS Annual Business Meeting President Jim Schmidt Presiding	Ballroom #4
11:45 am - 1:00 pm	LUNCH (On Your Own)	
11:45 am - 1:00 pm	AERF Luncheon and Meeting - members and invited Guests	Lake Calhoun
Session II Moderator	MORE REGULATIONS ON THE WAY? Dr. Kurt Getsinger	Ballroom
1:00 pm	Keynote: EPA Speaker	
1:30 pm	RISE REPORT Allen James	
1:45 pm	California's Waterhyacinth and <i>Egeria densa</i> Control Programs: Compliance with the National Pollution Discharge Elimination System (NPDES) Permit Requirements and U.S. Fish and Wildlife "Section Seven" Lars W.J. Anderson, USDA-ARS Exotic and Invasive Weed Research, UC-Davis, CA & Patrick Thalken, California Dept. of Boating and Waterways	
2:00 pm	State Regulatory Report Paul Liemandt	
2:15 pm - 3:00 pm	PANEL DISCUSSION - POTENTIAL IMPACT OF NEW FEDERAL REGULATIONS ON AQUATIC PLANT MANAGEMENT	
3:00 pm	BREAK / REFRESHMENTS - EXHIBITS - POSTER VIEWING	
Session III Moderator	EDUCATION AND OUTREACH - AQUATIC PLANT MANAGEMENT ENDEAVORS Heather Crawford	
3:15 pm	APMS Cooperative Elementary Education Project Jeffrey D. Schardt, Florida Dept. of Environmental Protection, Tallahassee, FL	
3:30 pm	Our Plants, Their Plants, These Plants, Those Plants Vic Ramey, Center for Aquatic and Invasive Plants, Gainesville, FL	
3:45 pm	MN DNR Aquatic Plants Education and Outreach Michelle Bratager, MN DNR Ecological Services, St. Paul, MN	
4:00 pm	Invasive Aquatic and Wetland Weeds: The Educational Role of North Carolina Sea Grant Stratford H. Kay and Barbara A. Doll, Crop Science Dept., North Carolina State University, Raleigh, NC	
4:15 pm	AQUAPLANT: A Web-Based Outreach Program for Management of Aquatic Vegetation Michael P. Masser, Dept. of Wildlife and Fisheries Section, TAMUS, College Station, TX	
4:30 pm	Great Lakes Region's Information/Education Strategy for Nonindigenous Aquatic Nuisance Species William (Jay) Rendall, MN DNR, St. Paul, MN	

4:45 pm

No One Way: Reaching Diffuse Target Audiences to Reduce the Spread of Invasive Aquatic Plants
Heather Crawford, Connecticut Sea Grant Extension Program, New Haven, CT

5:00 pm

ADJOURN

TUESDAY, JULY 17, 2001

6:30 am - 8:00 am

APMS Regional Chapters Presidents' Breakfast

Lake Nokomis

8:00 am - 5:00 pm

General Session

Ballroom 4

8:00 am - 5:00 pm

Registration

Prefunction Area

8:00 am - 5:00 pm

Posters

Deer Lake & Elk Lake

8:00 am - 5:00 pm

Exhibits

Ballroom 3

8:00 am - 5:00 pm

Presenter's Slide Viewing

Silver Lake

12:00 pm - 1:45 pm

Awards and Installation of Officers Luncheon

Ballrooms 1 & 2

Session IV

Aquatic Ecological Studies

Ballroom 4

Moderator

R. Michael Smart

8:00 am

Does Fish Predation Limit Milfoil Weevil Populations?
Darren M. Ward and Raymond M. Newman, University of Minnesota, Fisheries and Wildlife Department

8:15 am

Distribution of Cape Ivy, a South African Vine Threatening Riparian Zones of Coastal California
Joe Balciunas, USDA-ABS Exotic Weed Research Unit, Western Regional Research Center, Albany, CA, Elizabeth Grobbelaar, Plant Protection Research Institute, Biosystematics Division, South Africa, Ramona Robison, University of California, Weed Science Program, Davis, CA and Stefan Naser

8:30 am

Euhrychiopsis lecontei Attraction to Watermilfoil Exudates
Michelle D. Marko, Water Resources Science, University of Minnesota, Dept. of Fisheries and Wildlife, St. Paul, MN, Florence K. Gleason, Dept. of Plant Biology, University of Minnesota, St. Paul, MN and Raymond M. Newman, Fisheries, Wildlife and Conservation Biology, University of Minnesota, St. Paul, MN

8:45 am

Restoration of Native Vegetation in Lake Bellwood, Texas (WU 33084)
Gary O. Dick, University of North Texas, Institute of Applied Science, Denton, TX, R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, and Richard Ott, Texas Parks and Wildlife Dept., Tyler, TX

9:00 am

Fish Population Recovery Following a Hydrilla Management Strategy in Lake Bellwood, Texas (WU 33186)
Richard Ott, Texas Parks and Wildlife Department, Tyler, TX

9:15 am

Shoreline Restoration in Minnesota - Advances and Challenges
Jennifer S. Winkelman and Michael G. Halverson, MN DNR, Division of Fisheries, St. Paul, MN

9:30 am

Allelopathic Studies Between the Red Tide Organism *Gymnodinium breve* and the Wild Green Alga *Nannochloris* spp.
Melissa L. Derby, Michael Galliano, Dean F. Martin, and Joseph J. Krzanowski, University of South Florida, Tampa, FL

9:45 am	Between a Dark and a Dry Place: Establishing Native Aquatic Plants in Turbid Reservoirs with Fluctuating Water Levels (WU 33084) R. Michael Smart , U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, Gary O. Dick, University of North Texas, Institute of Applied Science, Denton, TX, Mark Webb and Richard Ott, Texas Parks and Wildlife Dept., Tyler, TX	
10:00 am	BREAK / REFRESHMENTS - EXHIBITS - POSTER VIEWING	
Session V	FEDERAL / STATE AND LOCAL AQUATIC PLANT MANAGEMENT EFFORTS	Ballroom 4
Moderator	Nancy Allen	
10:15 am	Aquatic Plant Management on the St. Johns River Nancy Allen , U.S. Corps of Engineers, Jacksonville District, Jacksonville, FL	
10:30 am	The Oregon Aquatic Nuisance Species Management Plan Erik D. Hanson and Mark Sytsma, Center for Lakes and Reservoirs, Environmental Sciences and Resources, Portland State University, Portland, OR	
10:45 am	Aquatic Plant Management Regulation in Michigan Laura A. Esman , Dept. of Environmental Quality, Land and Water Management Division, Lansing, MI	
11:00 am	Aquatic Plant Management in Minnesota Steve Enger , MN DNR, St. Paul, MN	
11:15 am	Aquatic Plant Management in Iowa, 1993 to 2000 Gary S. Philipps , Iowa Lakes Community College, Estherville, IA	
11:30 am	Aquatic Plant Management and Protection in Wisconsin Frank J. Koshore , Aquatic Plant Management Statewide Coordinator, WI DNR, Superior, WI	
11:45 am	Eurasian Watermilfoil in Minnesota: Where We've Been and Where We're Going Chip Welling , Coordinator, Eurasian Watermilfoil, Program MD DNR, St. Paul, MN	
12:00 noon to 1:45 pm	Awards and Installation of Officers Luncheon	Ballrooms 1 & 2
Session VI	ALL ABOUT AQUATIC PLANTS IN THE MIDWEST	Ballroom 4
Moderator	Chip Welling	
1:45 pm	Biological Control of Purple Loose Strife in North America - An Emerging Success Story Luke Skinner , MN DNR, Division of Ecological Services, St. Paul, MN	
2:00 pm	Control of Eurasian Watermilfoil Using Sonar Herbicide: Effects on Littoral and Pelagic Zone Foodwebs Mary T. Bremigan , K.S. Cheruvellil, S.M. Hanson, V.O. Moore, K.L. Rogers, P.A. Soranno, R.D. Valley, Michigan State University, Dept. of Fisheries and Wildlife, East Lansing, MI & John D. Madsen, Minnesota State University, Dept. of Biological Sciences, Mankato, MN	

2:15 pm	Fluridone Herbicide Use in Minnesota for the Control of Eurasian Watermilfoil Wendy Crowell , Aquatic Biologist, Exotic Species Program, MN DNR, Ecological Services, St. Paul, MN
2:30 pm	Causes of Invasion and the Development of Management Strategies for Hydrophytes in Minnesota Susan M. Galatowitsch , University of Minnesota, Dept. of Horticultural Science, St. Paul, MN
2:45 pm	Managing Shallow Lakes and Deep-Lake Expectations Dick Osgood , Ecosystem Strategies, Shorewood, MN
3:00 pm	BREAK / REFRESHMENTS - EXHIBITS - POSTER VIEWING
Session VII Moderator	SELECT BIOLOGICAL CASE STUDIES Dr. David Spencer
3:15 pm	Mangrove Restoration for Sustainable Fish Pond Production: A Case Study in the Northern Coast of Java Island T. Taufikurahman , Dept. of Biology, Institut Teknologi Bandung, Indonesia
3:30 pm	The Response of Largemouth Bass to Applications of Aquathol K in Lake Seminole, Georgia Michael J. Macelina , Auburn University, Dept. of Fisheries, Auburn University, AL
3:45 pm	Economic Value of Aquatic Vegetation to Fisheries: Economic Impact of Increased Aquatic Plants at Two Lakes (WU 33307) Jim E. Henderson and James P. Kirk, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
4:00 pm	Shear Stress and Sediment Resuspension in Canopy- and Meadow-Forming Submersed Macrophyte Communities (WU 33128) William F. James , U.S. Army Engineer Research and Development Center, Environmental Laboratory, Eau Galle Aquatic Ecosystem Research Facility, Spring Valley, WI, and John W. Barko, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS
4:30 pm	An Update on the Status of <i>Salvinia molesta</i> in North Carolina Stratford H. Kay , David DeMont, David T. Patterson, and Steve T. Hoyle, North Carolina State University, Crop Science Department, Raleigh, NC
4:45 pm	Barley and Bacteria: What Have We Learned? Carole A. Lembi and Paul Wigginton, Purdue University, Dept. of Botany and Plant Pathology, W. Lafayette, IN

5:00 pm

ADJOURN

WEDNESDAY, JULY 18, 2001

8:00 am - 4:00 pm	Registration	Prefunction Area
8:00 am - 4:15 pm	General Session	Ballroom 4
8:00 am - 5:00 pm	Exhibits	Ballroom 3
8:00 am - 5:00 pm	Posters	Deer Lake & Elk Lake
8:00 am - 4:00 pm	Presenter's Slide Viewing	Silver Lake
4:15 pm - 5:30 pm	APCRP Review	Lake Nokomis
5:30 pm - 10:00 pm	Banquet / Mississippi River Cruise	Off Site

Session VIII

AQUATIC HERBICIDES AND SURFACTANTS - CHEMICAL STUDIES

Moderator

Dr. Bill Haller

8:00 am

New Approach to Long-Term Control of Curlyleaf Pondweed
John G. Skogerboe, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, and Angela G. Poovey, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

8:15 am

Use of Plant Assay Techniques to Screen for Tolerance and to Improve Selection of Fluridone Use Rates
Michael D. Netherland and Brad Kiefer, SePro Corporation, Carmel, IN, and Carole A. Lembi, Purdue University, W. Lafayette, IN

8:30 am

Renovate: Finally in the EPA Cue and Under Review
Shaun Hyde and David Tarver, SePro Corporation, Sacramento, CA and Tallahassee, FL

8:45 am

Herbicide Evaluation Against Giant Salvinia
Linda S. Nelson, U.S. Army Engineer Research and Development Environmental Laboratory, Vicksburg, MS, and John G. Skogerboe, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX

9:00 am

Herbicide Evaluation for Control of *Cabomba caroliniana* and Subsequent Impact on the Non-Target Species, *Megalodonta beckii* (WU 33199)
Linda S. Nelson, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, Anne B. Stewart, Dyntel Corporation, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and Kurt D. Getsinger, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

9:15 am

Polymers 2001
Stephen P. Brewer, Brewer International, Vero Beach, FL

9:30 am

Surfactant Effects on Copper Herbicide Uptake in Submersed Weeds
Tyler Koschnick, University of Florida, Center for Aquatic Plants, Gainesville, FL

9:45 am

Herbicide Combinations and Interactions (WU 33304)
John G. Skogerboe, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, Angela G. Poovey and Kurt D. Getsinger, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

10:00 am

BREAK / REFRESHMENTS - EXHIBITS - POSTER VIEWING

10:15 am

Concentration / Exposure Time Relationships for Fluridone to Control Eurasian Watermilfoil
Angela G. Poovey and Kurt D. Getsinger, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

10:30 am	Levels of Fluridone in Interstitial (pore) Water at Clear Lake, CA Following Applications for Eradication of Monoecious Hydrilla (<i>Hydrilla verticillata</i>) Lars W.J. Anderson and Chris Piroosko, USDA-ARS Exotic and Invasive Weed Research / Weed Science Program, Davis, CA	
10:45 am	Selective Control of Eurasian Watermilfoil Using Fluridone (WU 32841) John G. Skogerboe, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, Angela Poovey, and Kurt D. Getsinger , U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS	
11:00 am	Endothall Field Trials for the Control of Hydrilla and <i>Ceratophyllum</i> In New Zealand Deborah E. Hofstra , P.D. Champion, and J.S. Clayton, National Institute of Water and Atmospheric Research, New Zealand	
11:15 am	Using Barrier Curtains to Isolate Eurasian Milfoil Treatment Areas During a Sonar Herbicide Application Terry McNabb , Aquatechnex, Inc., Olympia, WA	
11:30 am - 12:30 pm	Lunch (On Your Own)	
Session IX Moderator	QUANTIFICATION AND MONITORING AQUATIC PLANTS Dr. John Madsen	Ballroom 4
12:30 pm	An Evaluation and Comparison of Methods for Estimating Whole Lake Submersed Macrophyte Occurrence and Abundance Raymond M. Newman , Kerry L. Holmberg, and John L. Foley Fisheries, Wildlife and Conservation Biology, University of Minnesota, St. Paul, MN	
12:45 pm	Upper Mississippi River Aquatic Plant Quantification for Natural Resource Management Megan J.C. Moore , Mississippi River Station - MD DNR, Lake City, MN	
1:00 pm	Submersed Aquatic Vegetation Early Warning System (SAVEWS): Technology and Operational Status (WU 33118) Bruce M. Sabol , U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS	
1:15 pm	Use of Remote Sensing and Hydroacoustic Approaches for Integrated Assessment of Submersed Aquatic Vegetation (WU 33127) Mark A. Heilman , ReMetrix, LLC, Carmel, IN, R. Michael Stewart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and D.M. Morgan, U.S. Army Corps of Engineers, Lake Seminole Resource Management Office, Chattahoochee, FL	
1:30 pm	Databases for Determining Long-Term Trends in Aquatic Plant Communities Stanley A. Nichols , Wisconsin Geological and Natural History Survey, Madison, WI	
1:45 pm	Plant Quantification for Minnesota's Statewide Lake Assessment Donna J. Perleberg , MN DNR, Division of Ecological Services, Brainerd, MN	

2:00 pm	Quantification of Aquatic Plants in Two Vermont Lakes for Evaluation of Whole-Lake Treatments with Fluridone John D. Madsen , Minnesota State University, Dept. of Biological Sciences, Mankato, MN, R. Michael Stewart, Kurt D. Getsinger, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, Chetta S. Owens, Analytical Services, Inc., U.S. Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, and Holly A. Crosson, Vermont Dept. of Environmental Conservation, Waterbury, VT	
2:15 pm	BREAK / REFRESHMENTS - EXHIBITS - POSTER VIEWING	
Session X Moderator	BIOLOGICAL AQUATIC PLANT CONTROL Dr. Judy L. Shearer	Ballroom 4
2:30 pm	Population Management of Triploid Grass Carp (WU 33200) James P. Kirk , U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS	
2:45 pm	<i>Hydrellia pakistanae</i> and <i>H. balciunasi</i> - Insect Biological Control Agents of Hydrilla: Boom or Bust??? (WUs: 33028, 33117, 33305) Michael J. Grodowitz , U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS	
3:00 pm	Impacts of <i>Hydrellia pakistanae</i> on the Growth and Photosynthetic Potential of Hydrilla verticillata (WUs: 33028, 33117, 33305) Robert D. Doyle , University of North Texas, Denton, TX, Michael J. Grodowitz, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and Chetta S. Owens, Analytical Services, Inc., U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX	
3:15 pm	Impact of <i>Euhrychiopsis lecontei</i> on Eurasian Watermilfoil (WU 33189) Alfred F. Cofrancesco , Dwilette G. McFarland, Harvey L. Jones, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS and John D. Madsen, Minnesota State University, Dept. of Biological Sciences, Mankato, MN	
3:30 pm	Water Quality Impacts Following Hydrilla Control Using Triploid Grass Carp in the Santee Cooper Lakes, South Carolina Robin Socha , U.S. Army Corps of Engineers, Charleston District, Charles, SC, and Steven de Kozlowski, South Carolina Dept. of Natural Resources, Columbia, SC	
3:45 pm	Partnering to Develop an Endemic Fungal Pathogen as a Bioherbicide for Management of <i>Hydrilla verticillata</i> (WU 32863) Judy F. Shearer , U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and Mark A. Jackson, U.S. Dept. of Agriculture, Agricultural Research Service, National Center for Agricultural Utilization Research, Peoria, IL	

4:00 pm

ADJOURN

4:15 pm - 5:30 pm

APCRP Review - Corps of Engineers Representatives Only

5:30 pm - 10:00 pm

Banquet / Mississippi River Cruise

Off Site

THURSDAY, JULY 19, 2001

8:00 am - 12:00 noon

APMS Board of Directors Meeting

Posters
Deer Lake & Elk Lake Rooms

Genetic Diversity Among Brazilian Elodea Accessions From Sao Paulo State – Brazil by RAPD Analysis

Dagoberto Martins, Luciana R. Cardoso, Robson H. Tanaka, Edson S. Mori, Sao Paulo State University – UNESP, Brazil

Preliminary Investigations of Low Temperature Limits of *Salvinia molesta* in the United States

Chetta S. Owens, Analytical Services, Inc., U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, and R. Michael Stewart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Investigation of Aquatic Plant Fragment Dispersal in the San Marcos River below Spring Lake, Texas (WU 33188)

Chetta S. Owens, Analytical Services, Inc., U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, John D. Madsen, Department of Biological Sciences, Minnesota State University, Mankato, MN, R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, R. Michael Stewart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Concepts for Modeling Competition Between Submersed Macrophyte Species (WU 33308)

Elly P.H. Best, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Impacts of Sediment Dewatering and Reflooding on Emergence of Aquatic Plant Propagules (WU 33029, 33309)

Dwilette G. McFarland, 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, Eau Galle Aquatic Ecosystem Research Facility, Spring Valley, WI

Studies of Seed Germination in *Trapa natans* L. (Water Chestnut) with Emphasis on Impacts of Cold Stratification (WU 33029)

Dwilette G. McFarland, R. Michael Stewart, David J. Rutland, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and Annette M. Wessman, Mevatec Corporation, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Direct and Indirect Impacts of Submersed Aquatic Vegetation on the Nutrient Budget of an Urban Oxbow Lake

William F. James, Harry L. Eakin, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Eau Galle Aquatic Ecosystem Research Facility, Spring Valley, WI, John W. Barko, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Changes in Aquatic Sediment Characteristics due to Desiccation: Implications of Submersed Aquatic Macrophyte Growth and Water Quality Conditions in Shallow Lakes (WU 33309)

William F. James and Harry L. Eakin, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Eau Galle Aquatic Ecosystem Research facility, Spring Valley, WI, John W. Barko, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Suspended Sediment Dynamics and Light Attenuation Characteristics in Peoria Lake: Can Submersed Macrophytes Improve Water Quality in This Shallow System? (WU 33128)

William F. James, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Eau Galle Aquatic Ecosystem Research Facility, Spring Valley, WI, Elly P.H. Best and John W. Barko, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Preliminary Evaluation of the Ecological Effects of Giant Salvinia (WU 33186)

David R. Honnell, University of North Texas, Institute of Applied Science, Denton TX, R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, and Erin Tanski, University of North Texas, Institute of Applied Science, Denton, TX

U.S. Army Corps of Engineers Aquatic Plant Control Research Program (WU 31577)

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

Mass-Rearing *Hydrellia pakistanae* and *H. balciunasi*, Biological Control Agents of *Hydrilla verticillata*, Using Fish Hatchery Ponds (WU 33028)

Robin Bare, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, Jan E. Freedman, Michael J. Grodowitz, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS, and R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research facility, Lewisville, TX

Sensitive Area Survey – A Management Tool for Critical Habitat Protection

Carolyn Scholl, Frank J. Koshere, Wisconsin Department of Natural Resources, Superior, WI

Plant Quantification for Minnesota's Statewide Lake Assessment

Donna J. Perleberg, Minnesota Department of Natural Resources, Division of Ecological Services, St. Paul, MN

Current Status of Introduced *Hydrellia* spp. at Sixteen Southeast Field Sites Surveyed in 2000 (WU 33028)

Jan E. Freedman, Harvey L. Jones, Michael J. Grodowitz, and Alfred F. Cofrancesco, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Endophytic Fungi Associated with *Myriophyllum spicatum* (WU 33306)

Judy F. Shearer, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Assessing Wild Rice (*Zizania palustris*) Productivity and the Factors Responsible for Decreased Yields on Rice Lake, Rice Lake National Wildlife Refuge, McGregor, MN

Tara L. Carson, University of Minnesota, Water Resources Science graduate student, St. Paul, MN

Interactive Effects of Water Depth and Propagule Type on Short-Term Establishment of American Waterwillow, *Justicia americana* (WU 33084)

Joe R. Snow and Gary O. Dick, University of North Texas, Institute of Applied Science, Denton, TX, R. Michael Smart, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX

Integrating Fluridone with a Fungal Pathogen for Control of Eurasian Watermilfoil (WU 32953)

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

Preliminary Ecosystem Analysis of Experimental Ponds Vegetated with Native or Exotic Plant Species (WU 33186)

R. Michael Smart and JoEtta Smith, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, Gary O. Dick, David R. Honnell, and Joe R. Snow, University of North Texas, Institute of Applied Science, Denton, TX

Technology Transfer for Invasive Species via Computer-Based Information Systems (WU 31557)

Sherry G. Whitaker, Michael J. Grodowitz, Lavon Jeffers, Sonya F. Lewis, and Alfred F. Cofrancesco, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Use of Hydroacoustic Survey Techniques to Quantify SAV Changes Following an Upstream SONAR Injection Treatment in Spring Creek, Lake Seminole, Georgia (WU 33127)

R. Michael Stewart and Adam S. Way, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Vicksburg, MS

Changes in Plant Response to Aquatic Herbicides (WU 74001)

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

HELP: Habitat Enhancement Lake Project

Sharon A. Wood, Science Educator, Marcus High School, LISD, Flower Mound, TX

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:

The Aquatic Plant Management Society, Inc.

Post Office Box 1477

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ACTIVE MEMBERSHIP	\$ 35.00
STUDENT MEMBERSHIP	\$ 5.00
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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. This class does not include the newsletter, nor are members allowed to vote in Society elections.

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