



AQUATIC PLANT NEWS

A newsletter of The Aquatic Plant Management Society, Inc. No. 61 June 1999
Mike Stewart, Editor, CEWES-ES-P, 3909 Halls Ferry Road, Vicksburg, MS 39180

Asheville Welcomes APMS

Our 39th Annual Meeting will be held in Asheville, North Carolina, during July 11 - 14, 1999, at the Asheville Radisson Hotel. Asheville, the largest city in western North Carolina, offers a variety of unique attractions for our enjoyment. Local arrangements that incorporate the style and charm of Asheville into the meeting activities have been coordinated by Eric Barkemeyer, Ken Manuel, and numerous members from the South Carolina Aquatic Plant Management Society.

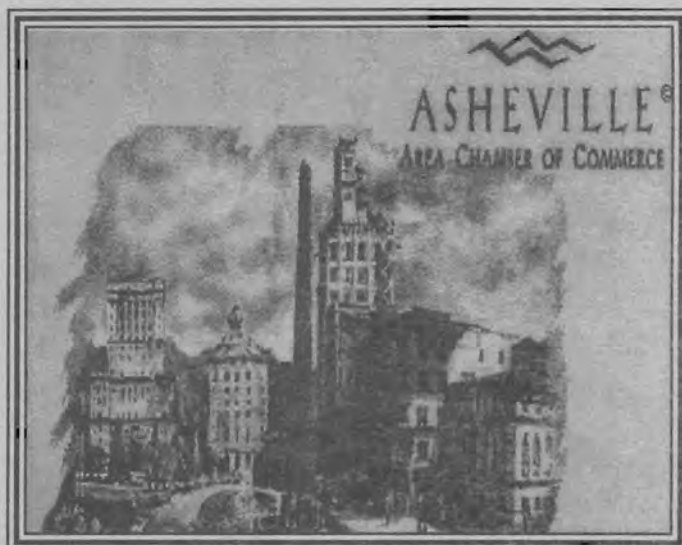
The 39th Annual Meeting will officially kick off with the President's Reception in the Radisson Hotel on Sunday evening. All delegates and registered guests are encouraged to attend this reception. Though many participants have elected to wear semi-formal attire for this event in recent years, the primary goal is to provide a relaxed atmosphere for us to catch up with good friends and to welcome new participants.

Participants in the Spouse's Tour on Monday will enjoy first-hand exposure to the Asheville style and charm. The group will tour the Folk Art Center on the Blue Ridge Parkway and the Arboretum and Quilt Garden. A luncheon at the famous Grove Park Inn will complement these site-seeing activities.

Monday evening will be highlighted by a reception sponsored by SePRO Corporation. This event will provide a great atmosphere for folks to group up and head out on Asheville for dinner and revelry. Downtown Asheville has a wide range of restaurants, bars, clubs, and brew pubs capable of satisfying most preferences in walking distance from the Radisson.

The banquet and awards Ceremony on Tuesday evening will be at the Biltmore House, one of the most unique places in the country. The evening will begin with a guided "candlelight" tour of the 255 room mansion, which was built by George Vanderbilt in the 19th century. Dinner will follow in the Deer Park Inn, a four-star restaurant operated by the Biltmore Estate. This most luxurious setting will provide a second opportunity for semi-formal attire, if you find that style desirable.

**Begin Making Your Final Plans To Attend
the 39th Annual Meeting**



A variety of attractions in downtown Asheville are within walking distance to the Radisson.

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Meeting Registration Information

The meeting registration fees are \$85.00 for delegates and \$65.00 for guests (spouse, partner, children over age 12), if received before June 30, 1999. (See Pre-registration Form, page 10). After this date, registration fees at the door will be \$100.00 for delegates and \$80.00 for guests.

Registration fees for students participating in the Student Paper competition will be waived. For non-participating students, registration fees will be \$15.00. Additional tickets for specific meeting functions can be purchased at the registration desk.

Asheville Radisson Lodging Information

Lodging rates at the Asheville Radisson have been negotiated at \$72.00 per night. Reservations at this special group rate can be made through June 10, 1999, by calling 1-800-438-3960 (out-of-state) or 1-800-222-0859 (in-state). Toll calls should be made to 828-252-8211. When making reservations, specify the Aquatic Plant Management Society to receive the group rate. After June 10, reservations will be taken on a space available basis only, and the special group rate will probably not apply.

Shuttle Service from Asheville Airport

Travel Professionals, Inc., is offering APMS meeting attendees a discount rate of \$15.00 for one-way transportation from the Asheville airport to the Radisson on July 11, 1999. Reservations must be made by June 11, 1999, by contacting Travel Professionals, Inc. (TPI), at 828-298-3438. Alternatively, a TPI reservation form can be downloaded from the APMS website (see below) and faxed to TPI prior to the June 11 deadline. Individual rates will be determined for service arranged after this cut-off.

Door Prizes: As with previous APMS meetings, door prize donations will be gladly accepted from all. Contact Dan Thayer at 561-687-6129 if you'd like to make a donation. **Cygnnet Enterprises, Inc.**, has again graciously donated a vacation trip for two. This year's trip is for four nights at a five star hotel resort in Cancun, Mexico. Airfare from a major U.S. departure point is included.

The official APMS website is:

<http://www.apms.org>

Useful information on a variety of topics related to aquatic plant management are posted. APMS members can access an online membership directory and other restricted areas by supplying the following information to site queries:

username: apms
password: duckweed

APMS Sustaining Members 1998-99

APPLIED AQUATIC MANAGEMENT, INC.
Eagle Lake, Florida

APPLIED BIOCHEMISTS, INC.
Germantown, Wisconsin

AQUARIUS SYSTEMS
North Prairie, Wisconsin

AQUATIC CONTROL, INC.
Seymour, Indiana

AQUATIC MANAGEMENT SERVICES, INC.
Novi, Michigan

AQUATICS UNLIMITED
Martinez, California

BREWER INTERNATIONAL
Vero Beach, Florida

CHELTEC, INC.
Sarasota, Florida

CYGNET ENTERPRISES, INC.
Flint, Michigan

DOW AGROSCIENCE
Indianapolis, Indiana

ELF ATOCHEM
Charlotte, North Carolina

GRIFFIN CORPORATION
Valdosta, Georgia

MONSANTO AGRICULTURAL CO.
St. Louis, Missouri

NUFARM AMERICAS, INC.
St. Joseph, Missouri

PROFESSIONAL LAKE MANAGEMENT, INC.
Alto, Michigan

RESOURCE MANAGEMENT, INC.
Tumwater, Washington

SEPRO CORPORATION
Carmel, Indiana

TEXAS AQUATIC HARVESTING
Lake Wales, Florida

**Draft Agenda
39th Annual Meeting
Aquatic Plant Management Society, Inc.
Asheville, NC
July 11-14, 1999**

Kozlowski, South Carolina Department of Natural Resources

SUNDAY, JULY 11, 1999

- 8:30am-3:00 pm APMS Board of Directors Meeting - Victoria
- 12:00 noon -5:00 pm Exhibitor Display/Poster Display Set up - Kenilworth
- 3:00-6:00pm Registration - Foyer
- 7:00-9:00pm President's Reception - Manor - All Delegates Invited

- 10:05 am BREAK
- 10:20 am Aquatic Plant Management in Minnesota: The Past 10 Years: **Wendy Crowell** and **Steve Enger**, Minnesota Department of Natural Resources, St. Paul, MN.
- 10:35 am Washington Report
Robert Hedberg, Director of Science Policy, Weed Science Society of America

MONDAY, JULY 12, 1998

- 8:00am-5:00 pm Registration - Foyer
- 8:00am-5:00 pm Exhibits - Kenilworth
- 8:00am-5:00 pm Posters - Kenilworth
- 8:00am-5:00 pm Presenters' Slide Viewing - Berkley
- 10:00am-2:00 pm Spouses' Tour

- 10:50 am Aquatic Ecosystem Restoration Foundation ... Three Years of Progress, **Michael Moore**, Executive Director, Aquatic Ecosystem restoration Foundation
- 11:05 am ANNUAL APMS BUSINESS MEETING, President David Spencer Presiding
- 11:45 am LUNCH
- 11:45 am-12:45 pm Aquatic Ecosystem Restoration Foundation (AERF) Lunch and Board of Directors Meeting - Victoria

SESSION I - Manor - Plenary

Presiding: **David Spencer**, President APMS

- 8:00 am Call to order
- 8:05 am Announcements: **Lewis Decell**, Program Chair, President-Elect, APMS, Inc.
- 8:15 am Presidential Address: **David Spencer**, President, APMS, Inc.
- 8:35 am APMS Regional Chapter Reports: Florida - Mid West - MidSouth - Nile Basin - South Carolina, Texas - Western
- 9:20 am Aquatic Vegetation Management and Anglers: Funding Concerns
Bruce Shupp, Conservation Director, B.A.S.S.
- 9:35 am Navigating the 90's - Aquatic Plant Control in Florida, **J. Schardt**, Florida Department of Environmental Protection
- 9:50 am The Santee Cooper Lakes: Lessons Learned After 10 years, **Steve de**

SESSION II: - Manor - Chemical

Moderator: **Kurt Getsinger**

- 1:00 pm Industry View of the Aquatic Market
M.C. McLeod, Griffin Inc., Valdosta, GA
- 1:15 pm Evolution of Fluridone for Hydrilla Control in New Zealand. **D. E. Hofstra** and **J. S. Clayton**, National Institute for Water and Atmospheric Research, Hillcrest, Hamilton, New Zealand.
- 1:30 pm Contact Herbicide Combination Efficacy Evaluations. (WU# 32437), **John G. Skogerboe**, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX; **K. D. Getsinger**, U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- 1:45 pm Phytotoxins in the Real World: Understanding the Role of Cattail Products in Aquatic Weed Management

(Student Paper) Maria Gallardo, and Dean F. Martin, Institute for Environmental Studies, University of South Florida.

- 2:00 pm Evaluations of Five Surfactants with Imazapyr for Control of Cattails. **S.T. Hoyle**, S. H. Kay, North Carolina State University, Raleigh, NC.
- 2:15 pm Magnitude of Residues of Endothall in Freshwater Fish and Shellfish. **Janice K. Sharpe**, Elf Atochem, N.A., King of Prussia, PA; Emily Dionne, Springborn Laboratories, Wareham, MA; Mike Grisham, ABC Laboratories, Columbia, MO and Timothy Formella, Elf Atochem, N.A.
- 2:30 pm New from Monsanto, "Quicksorb". **Lonnie M. Pell**, Monsanto, Merritt Island, FL.
- 2:45 pm An Evaluation of Microbial Products and Chemical Algaecides Used in surface Water Management (Student Paper) **Robert J. DuVall**, Lars W. J. Anderson, and Charles R. Goldman, USDA/ARS Aquatic Weed Research Laboratory, University of California, Davis, CA.
- 3:00 pm BREAK
- 3:15 pm Triclopyr Efficacy Evaluation Against Variable-Leaf Watermilfoil. (WU# 32841) **Susan L. Sprecher** and Kurt D. Getsinger, U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- 3:30 pm Impacts of Inorganic Turbidity on Diquat Efficacy versus *Egeria densa*. (WU# 32437) **A.G. Poovey**, ASci Corporation, K. D. Getsinger, U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- 3:45 pm Selective Use of Endothall to Manage Aquatic Vegetation. (WU# 32841) **K. D. Getsinger** U.S. Army Engineer Research and Development Center, Vicksburg, MS, and J.G. Skogerboe, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 4:00 pm Selectivity of Fluridone for Management of Eurasian Watermilfoil: Whole-lake, Low-dose Boost Application Technique. (WU# 32437) **K.D. Getsinger**, J. D. Madsen, U.S. Army Engineer Research and Development Center, Vicksburg, MS; T. J. Koschnick, M. D. Netherland, SePRO Corporation, Carmel, IN; R. M. Stewart, U.S. Army Engineer Research and

Development Center, Vicksburg, MS, D. R. Honnell, ASci Corporation, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX; A. G. Staddon, SePro Corporation, Carmel, IN.

- 4:15 pm Selectivity of Fluridone for Management of Eurasian Watermilfoil: Efficacy on Native Plants in Four Michigan Lakes. (WU# 32841) **John D. Madsen**, K. D. Getsinger, R. M. Stewart, U.S. Army Engineer Research and Development Center, Vicksburg, MS, C. S. Owens, ASci Corporation, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX; D. H. Smith, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX; T. J. Koschnick, SePro Corporation, Carmel, IN.
- 4:30 pm Diuron 24-c Registration for Florida Tropical Fish Production Ponds (Student Paper) **Chance W. Dubose**, and Ken A. Langland, University of Florida, Gainesville, FL.
- 4:45 pm Effects of 2,4-D Treatment on Eurasian Watermilfoil and Native Plant Communities in Loon Lake, WA. **Kathy Hamel** and Jenifer Parsons, Washington Department of Ecology; John Madsen, U.S. Army Research and Development Center, Vicksburg, MS.

5:00 pm ADJOURN

6:30-8:30 PM **RECEPTION - Off Site**

TUESDAY, JULY 14, 1999

- 6:30-8:00 am APMS Regional Chapter Presidents' Breakfast - Victoria
- 8:00 am-5:00 PM Registration - Foyer
- 8:00 am-5:00 PM Exhibits - Kenilworth
- 8:00 am-5:00 PM Posters - Kenilworth
- 8:00 am-5:00 PM Presenters' Slide Viewing - Berkley

SESSION III - Manor

Moderator: TBA

- 8:00 am Sediment Resuspension Dynamics in Canopy- and Meadow-Forming

- Submersed Macrophyte Communities. (WU# 33128) **William F. James**, U.S. Army Research and Development Center, Eau Galle Aquatic Ecosystem Research Facility, Spring Valley, WI; **John W. Barko**, U.S. Army Research and Development Center, Vicksburg, MS; **Eva-Maria Koch**, University of Maryland at Horn Point, Cambridge, MD; and **David P. Hamilton**, Centre for Water Research, The University of Western Australia, Nedlands, Australia.
- 8:15 am Examination of the Effects of Barley Straw on Freshwater Algae in the Field and Laboratory (**Student Paper**) **Bryan Butler**, University of Maryland Extension, Westminster, MD; **Daniel Terlizzi**, University of Maryland sea Grant, Westminster, MD; **Drew Ferrier**, Hood College, Fredrick, MD; and **Richard Lacouture**, The Academy of Natural Sciences, St. Leonard, MD.
- 8:30 am Emergence of Vegetative Propagules of *Potamogeton nodosus*, *Potamogeton pectinatus*, *Vallisneria americana*, and *Hydrilla verticillata* based on accumulated degree-days in Texas and California. **David F. Spencer**, **John S. Ksander**, USDA-ARS, UC Davis, Davis, CA; **John D. Madsen**, U.S. Army Engineer Research and Development Center, Vicksburg, MS, and **Chetta S. Owens**, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 8:45 am Vegetative Propagation of Aquatic Plants by Leaf Cuttings (**Student Paper**) **Danielle Pierandozza** and **David L. Sutton**, University of Florida - IFAS, Research & Education Center, Ft. Lauderdale, FL.
- 9:00 am *Spartina alterniflora* invades San Francisco Bay/Delta: Impacts and control Strategies. **Lars W.J. Anderson**, USDA Agricultural Research Service, UC Davis, Davis, CA; **Kathy Zaremba**, California State University, San Francisco, CA; **Debra Smith**, Bodega Marine Laboratory, Alameda/Contra Counties, CA; and **Don Strong**, University of California Davis, Davis, CA.
- 9:15 am Effects of an Altered Hydrological Regime on a Bottomland Hardwood Forest in Sampson County, North Carolina (**Student Paper**) **Heather D. Patti**, and **Jon M. Stucky**, Department of Botany, North Carolina State University, Raleigh, NC.
- 9:30 am Formulation of a Fungal Pathogen for Biological Control of Hydrilla: a Challenging Task (WU# 32863) **Judy F. Shearer**, U.S. Army Research and Development Center, Vicksburg MS.
- 9:45 am BREAK
- 10:00 am Management of Impacts on Tuber Sprouting and Population Dynamics of Dioecious Hydrilla. **Michael D. Netherland**, SePRO Corporation, Carmel, IN.
- 10:15 am Flowering, Seed Production, and Germination of Seed of Hygrophila (**Student Paper**) **Peter M. Dingler**, and **David L. Sutton**, University of Florida - IFAS, Research & Education Center, Ft. Lauderdale, FL.
- 10:30 am Allelopathic Effects of Common Reed on the Growth of Waterhyacinth and Some Economic Plants. **Sayed A. Ahmed** and **M. M. Khalifa**, Faculty of Agriculture, Assiut University and Plant Protection Research Institute, Assiut, Egypt.
- 10:45 am Integrated Endothall and MT Treatments for Control of Hydrilla. (WU# 32953) **L. S. Nelson** and **J. F. Shearer**, U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- 11:00 am Using Remote Sensing and Mapping Technologies to Manage Large Scale Aquatic Plant Management Programs **Terry McNabb** and **Steve Farone**, Resource Management, Inc., Tumwater, WA.
- 11:15 am Economics of Aquatic Plant Management: Looking at the Costs Side (WU#31557). **Jim Henderson**, U.S. Army Research and Development Center, Vicksburg, MS.
- 11:30 am Influence of Flooding on Growth of Pond Apple (**Student Paper**) **Lyn A. Gettys**, North Carolina State University, Raleigh, NC; **David L. Sutton**, University of Florida-IFAS, Research & Education Center, Ft. Lauderdale, FL.
- 11:45 am Aquatic Plant Problems in Reservoirs in Brazil. **Robinson Pitelli**, Brazil Agricultural University, San Paulo, Brazil
- 12:00 noon LUNCH

SESSION IV - *Salvinia* Session

Moderator: **Michael Smart**

- 1:00 pm Overview of Biology and Ecology of *Salvinia molesta*: An International Perspective. **David Mitchell**, Charles Sturt University.
- 1:30 pm Chronology and Status of the Current Infestations in Texas. **Rhandy Helton** and Larry Hartmann, Texas Parks and Wildlife Department, Austin, TX.
- 1:45 pm The Status of Giant *Salvinia* (*Salvinia molesta*) in North Carolina. **Stratford H. Kay**, Steve T. Hoyle, North Carolina State University, Raleigh, NC; David T. Patterson, North Carolina Department of Agriculture and Consumer Services, Raleigh, NC.
- 2:00 pm Eradication of *Salvinia molesta* from a Small Pond in Colleton County, SC. **Jack M. Whetstone**, Clemson University, Georgetown, SC; Steven J. de Kozlowski, SC Department of Natural Resources, Columbia, SC; Cynthia Aulbach, Botanical Services of South Carolina, Columbia, SC.
- 2:15 pm Public Education Efforts and Methods of Spread of *Salvinia molesta*. **Colette Jacono**, USGS
- 2:30 pm BREAK
- 2:45 pm Integrated Pest Management/Biological Control of *Salvinia molesta*. **Mic Julien** CSIRO
- 3:15 pm Giant *Salvinia* Action Plan: a Multi-agency Integrated Approach. **Earl Chilton**, Texas Parks and Wildlife Department, Austin, TX
- 3:30 pm The Role of USDA Plant Protection & Quarantine. **Robert Spaide**, U.S.D. A.
- 3:45 – 5:30 pm Civil Works R & D Program Review for the APCRP. Corps of Engineers Representatives Only - TBA
- 5:15-5:30 pm **Board Buses to Awards Banquet**
- 6:00-10:00 pm: **APMS Banquet and Awards Ceremony - Off Site**

WEDNESDAY, JULY 14, 1999

8:00 am-12:00 noon Presenters' Slide Viewing - Berkley

Session V - Native Plant Restoration Session

Moderator: **Michael Smart**

- 8:00 am Establishment of Native Aquatic Plants for Habitat Enhancement, Mitigation for Aquatic Plant Management, and as a Deterrent to Exotic Species Invasions (WU# 33048). **Michael Smart** and Gary O. Dick, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 8:15 am Aquatic Plant Introduction Survey. **Michael Alexander**, U.S. Army Corps of Engineers, Richard B. Russell Project, Elberton, GA.
- 8:30 am Establishment of Native Vegetation in El Dorado Lake, Kansas. **Gary O. Dick**, University of North Texas, R. Michael Smart, Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX; Ron Marteney, Kansas Department of Wildlife and Parks, El Dorado, KS.
- 8:45 am Fish Habitat with Native Aquatic Plants in Arcadia Reservoir, OK. **Gene Gilliland**, Oklahoma Department of Wildlife Conservation, Norman, OK; R. Michael Smart, Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 9:00 am Texas Parks and Wildlife Department Habitat Enhancement Initiative **Mark Webb**
- 9:15 am Integrated Management. **Richard Ott**
- 9:30 am Aquatic Plant Establishment as Restitution for a Fish Kill. **Ken Rice**, Texas Parks and Wildlife Department, Corpus Christi, TX; R. Michael Smart, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX; Michael Reed, Texas Parks and Wildlife Department, Ingram, TX.

9:45 am Protecting the Native Aquatic Plant Communities of the Comal and San Marcos Rivers, TX. **Robert D. Doyle**, University of North Texas, Denton; Paula Power and Kathryn Kennedy, U.S. Fish and Wildlife Service.

10:00 am BREAK

Session VI - Manor

Moderator TBA

10:15 am Potential Recruitment of Sunfishes in a Vegetated Reservoir Based on Larval and Juvenile Fish Abundance (WU# 32944). **Jack Killgore**, U.S. Army Research and Development Center, Vicksburg MS and William D. Pearson, University of Louisville, Louisville, KY

10:30 am A Review of Nautique Laboratory and Field Efficacy Results. **Tyler Koschnick**, SePRO Corporation, Carmel, IN.

10:45 am Modeling Growth of Two Desirable Aquatic Macrophyte Species, Sago Pondweed and American Celery. **Elly P. H. Best** and William A. Boyd, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

11:00 am Photo-history of the Aquatic Plant Control Program in the Jacksonville District. **Charles E. Ashton**, U. S. Army Corps of Engineers, Jacksonville, FL.

11:15 am TBA

11:30 am FINAL BUSINESS MEETING AND INSTALLATION OF 1999-2000 OFFICERS. President **David Spencer**, Presiding

12:00 Noon ADJOURN

1:00 PM APMS Board of Directors Meeting – Victoria

POSTERS (During Breaks) KENILWORTH

Distribution of *Salvinia molesta* (D. S. Mitchell) in the U.S., and the Status of *Cyrtobagous salvinia* (Calder and Sands), a Biocontrol Agent, for its Control (WU# 31557). Jan E. Freedman, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Insect Biological Control Agents of *Hydrilla verticillata* (WU# 33028). Alfred Cofrancesco and Michael J. Grodowitz, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Naturalized Aquatic Insects Impacting Eurasian Watermilfoil (WU# 33189). Alfred Cofrancesco and John Madsen, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Effects of Biocontrol Agents on the Competitive Interactions Between Nuisance Exotics and Desirable Native Aquatic Plants (WU# 33117). Michael J. Grodowitz, U.S. Army Engineer Research and Development Center, Vicksburg, MS, Robert Doyle, North Texas State University, Denton, TX, R. Michael Smart, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

Ecological Attributes of Exotic and Native Plant Communities (WU# 33186). R. Michael Smart and Gary O. Dick, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

Effects of Burial Depth and Sediment Type on Emergence and Growth of *Hydrilla verticillata* (WU# 33029). Dwilette G. McFarland, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Factors Contributing to the Dispersal of *Hydrilla* in Lakes and Reservoirs (WU# 33188). Chetta S. Owens, AScl Corporation, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, John D. Madsen, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Herbicide Evaluation for Control of Wild Taro (WU# 33199). L. S. Nelson and K. D. Getsinger, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Comparison of Four Sampling Techniques for Quantifying Submersed Aquatic Plants in L'Anse Creuse Bay, Lake St. Clair (WU# 33127). Mike Stewart, John Madsen, Bruce Sabol, U.S. Army Engineer Research and Development Center, Vicksburg, MS, and Robert Haas, Michigan Department of Natural Resources, Mt. Clemens, MI

Measurement Systems for Rapid Detection and Characterization of Aquatic Plants (WU# 33118). Bruce M. Sabol, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Macrophyte Influences on Hydrodynamics in Aquatic Systems (WU# 33201). William F. James, U.S. Army Engineer Research and Development Center, Eau Galle Aquatic Ecosystem Research Facility, Spring Valley, WI; Craig S. Smith, Professional Lake Management, Caladonia, MI; John W. Barko, U.S. Army Engineer Research and Development Center, Vicksburg, MS; Harry L. Eakin, U.S. Army Engineer Research and Development Center, Eau Galle Aquatic Ecosystem Research Facility, Spring Valley, WI.

Influence of Water Temperature on the Efficacy of Diquat and Endothall versus Curlyleaf Pondweed. (WU# 33187). John D. Madsen, U.S. Army Engineer Research and Development Center, Vicksburg, MS; Mike D. Netherland, SePro Corporation, Carmel, IN; J. D. Skogerboe, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX; and C. S. Owens, AScl Corporation, U.S. Army Engineer Research and Development Center, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

Population Management of Triploid Grass Carp (WU# 33200). James P. Kirk, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Residues of Copper in Water. William G. H. Latham and David L. Sutton, University of Florida - IFAS, Research & Education Center, Ft. Lauderdale, FL.

Influence of Sediment Nutrients on Growth of Hygrophila. David L. Sutton and Peter M. Dingler, University of Florida IFAS, Research & Education Center, Ft. Lauderdale, FL.

Application Potential of Simulation Models for Growth of Submersed Aquatic Macrophytes, Elly P.H. Best and William A. Boyd, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

—— CALENDAR OF UPCOMING MEETINGS AND EVENTS ——

<u>DATE</u>	<u>EVENT</u>	<u>LOCATION</u>	<u>CONTACT</u>
June 28-July 1, 1999	11 th European Weed Research Society (EWRS) Symposium	Basel, Switzerland	EWRS Symposium 1999 P.O. Box CH-4332 Stein Switzerland Phone: +41-62-868 60 63 E-mail: james.allen@cp.novartis.com
July 11-14, 1999	39 th Annual Meeting, Aquatic Plant Management Society	Radisson Hotel Asheville Asheville, NC (Reserv: 828-252-8211 or 1-800-333-3333)	J. Lewis Decell, Program Chair JLD Consulting, Inc. Phone: 601-638-7150 E-mail: jldcom@aol.com http://www.apms.org
August 11-14, 1999	21 st Annual Meeting, South Carolina APMS	Pine Island Conference Center Columbia, SC	Information to be posted on SCAPMS website: http://water.dnr.state.sc.us/water/envaff/aquatic/meetings99.html
August 29-September 2, 1999	129 th Annual Conference, American Fisheries Society	Charlotte Adams's Mark Charlotte, NC (Reserv: 704-372-4100)	C. Andrew "Andy" Dolloff, Program Chair Phone: 540-231-4864 E-mail: afs99@vt.edu
October 5-7, 1999	Annual Meeting, Florida Aquatic Plant Management Society	Daytona Beach Holiday Inn Daytona Beach, FL	John Rodgers Phone: 813-744-6163
October 12-14, 1999	"Aquatic Nuisance Species: A Focus on the Southeast." Southeast ANS Conference	Sheraton Charleston Hotel Charleston, SC (Reserv: 843-723-3000)	Janice Conner Meeting Coordinator Phone: 803-737-0800 or 1-800-325-3535
December 1-4, 1999	"Water: 21 st Century Gold NALMS '99." North American Lake Management Society	Reno Hilton Reno, NV	Terry Thiessen NALMS Phone: 608-233-2836 Fax: 608-233-3186 E-mail: thiessen@nalms.org
December 4-9, 1999	American Water Resources Assoc., Annual Conference (Watershed Management to Protect Declining Species)	Sheraton Seattle Hotel & Towers Seattle, WA (Reserv: 206-621-9000)	Rod Sakrison, Conf. Co-Chair Phone: 425-649-4447 Fax: 425-649-7098 E-mail: rsak461@ecy.wa.gov
June 5-9, 2000	"ASLO 2000. Aquatic Sciences: Research Across Boundaries." American Society of Limnology and Oceanography	Bella Center Copenhagen, Denmark	DIS Congress Service Copenhagen A/S Phone: (+45) 44 92 44 92 Fax: (+45) 44 92 50 50 E-mail: dis-con@inet.uni2.dk
July 2000	40 th Annual Meeting, Aquatic Plant Management Society	San Diego, CA	Updates at APMS Website http://www.apms.org

Pre-Registration Form

The Aquatic Plant Management Society, Inc.

39th Annual Meeting
Radisson Hotel Asheville
Asheville, North Carolina
July 11-14, 1999

Deadline for Receipt of Pre-registration Forms to
Qualify for Reduced Rates is June 30, 1999

LAST NAME: _____ FIRST NAME: _____ M.I. _____

ORGANIZATION: _____ TITLE: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

COUNTRY: _____ BUSINESS PHONE: (____) _____ FAX: (____) _____

Please use a photocopy of this form for submitting pre-registration information. Payment of all fees and costs indicated on your completed form should accompany your form when mailed to The Aquatic Plant Management Society, Inc., P. O. Box 1477, Lehigh, Florida 33970-1477, USA. Note that Full-Delegate registration includes coffee/tea breaks, President's reception, and Awards Banquet.

Description of Registration Categories (Please check those that apply) Itemized Cost

- | | | |
|---|--------------------------------------|-----------|
| <input type="checkbox"/> Advanced Full-Delegate Registration
<i>(Note: Full-Delegate Registration at the meeting will be \$100.00)</i> | \$ 85.00 | \$ _____ |
| <input type="checkbox"/> Guest Registration (Spouse, partner, or child over 12 years)
<i>(Includes Breaks, Social Functions, and Banquet)</i>
<i>(Note: Guest Registration at the meeting will be \$80.00)</i> | No. of guests _____ @ \$65.00 each = | \$ _____ |
| <input type="checkbox"/> Student Paper Competition Participant
<i>(Includes Breaks, Social Functions, and Banquet)</i> | NO CHARGE | NO CHARGE |
| <input type="checkbox"/> Regular Student Registration (Non-competing)
<i>(Includes Breaks only- no other Social Functions or Banquet)</i> | \$ 15.00 | \$ _____ |

Individual Function Tickets (for Regular Students or Non-registered Guests)

- | | | |
|---|---------------------------------------|----------|
| <input type="checkbox"/> President's Reception (Sunday evening) | No. of tickets _____ @ \$25.00 each = | \$ _____ |
| <input type="checkbox"/> Awards Banquet (Tuesday Evening) | No. of tickets _____ @ \$35.00 each = | \$ _____ |

APMS Membership Dues (Optional: Membership dues may be paid at the meeting)

- | | | |
|-------------------|----------|----------|
| Active | \$ 35.00 | |
| Student | \$ 5.00 | |
| Sustaining Member | \$500.00 | \$ _____ |

APMS Scholastic Endowment Fund \$ _____

TOTAL AMOUNT OF REMITTANCE

(If payment by check, make checks payable to APMS, Inc.)

\$ _____

If payment by Credit Card, you must provide the following information:

Check one: VISA _____ MASTERCARD _____ AMERICAN EXPRESS _____

Cardholder Name: _____ Card No.: _____ Expiration Date: _____

Signature: _____ Date: _____

1999 APMS Nominations

The APMS Nominations Committee believes that the following slate of individuals are well qualified and deserving of their nominations to serve on the Board of Directors (BOD) of APMS. In making these nominations careful consideration is made of the overall composition of the BOD in terms of representation from all APMS Chapters and from a diversity of agencies, industries, and areas of professional expertise.

Vice President - David Tarver

David has been an APMS member for 26 years and has served as a Director, Chair of the Education and Outreach Committee and has participated in the Placement, Exhibits, Bylaws and Resolutions, and B.A.S.S. liaison committees. He is a Past-President of the Florida APMS, and has been a Directors of that chapter as well as Editor of Aquatics magazine. David is a Charter member of the Texas APMS and a member of South Carolina APMS. David is currently employed as the National Aquatic Sales Manager for SePRO Corp. working from Tallahassee, FL.

Editor - John Madsen

John has been an APMS member for 12 years during which time he has served as Editor, Assistant Editor, Chair of the Student Affairs Committee and participated in the Nominating, Finance, and Publications committees. John has been a Director for the Texas APMS and was Chair of their Student Affairs Committee. He is also a member of the Western, Midwest, and Midsouth Chapters of APMS. John is a Research Biologist in the U.S. Army Engineer Research and Development Center at Waterways Experiment Station in Vicksburg, MS.

Director - Robert Gunkel

During the 10 years of his APMS membership, Bob has been Chair of the Local Arrangements and Site Selection Committees. Bob has been a Director and Chair of the Membership Committee for the Midsouth APMS, and he has also been a member of the Florida, South Carolina and Texas Chapters of APMS. In his position as Assistant Program Manager for the Aquatic Plant Control Research Program of the U.S. Army Engineer Research and Development Center at Waterways Experiment Station in Vicksburg, MS, Bob has been very active in organizing their annual review meetings, including coordinated sessions within the APMS annual meeting.

Director - Michael Smart

Michael has been a member of the Bylaws and Ad hoc Education and Extension Committees of APMS during his 15 year membership of the Society. He is a Past President of the Texas APMS and is currently their Vice President. Michael has also served as Director, chaired the Program, Public Education, Membership and Publicity, and Nominating Committees for TAPMS, and has been their representative on the Board of the Freshwater Anglers Association and on the APMS - Aquatic Ecosystem Restoration Foundation Scholarship Review Board. Michael has also been a member of the Midsouth APMS and various important working groups related to aquatic plants and fisheries. Michael is Research Ecologist with the U.S. Army Corps of Engineers, based at the Lewisville Aquatic Ecosystem Research Facility in Lewisville, TX.

Notice to all APMS members: Upcoming Vote on Proposed Bylaws Change

A vote will be taken at the next meeting in accordance with the bylaws concerning the dissolving of the International Contacts Committee.

In the past year, the APMS membership voted to establish a new committee named the Education and Outreach Committee. With the establishment of this committee it has become apparent that all of the duties of the International Contacts Committee are now covered either by other committees or by officers' duties (e.g., Membership Committee, Editor and Secretary). The Board of APMS is dedicated to maintaining and expanding the Society's reputation as an International Organization. It seems more appropriate that issues related to international contacts should be included in all APMS activities and not in an isolated committee. In years proceeding an International Symposium (as in 2000), an Ad Hoc committee will be formed to specifically deal with issues related to that event and the contacts that need to be developed for the most efficient dissemination of information about such events. This being the case, a vote will be taken to dissolve the International Contacts Committee. The vote will be at the annual meeting and will be in accordance with the APMS bylaws.

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
Lehigh, FL 33970-1477

Application for Membership

Name of Applicant _____
Home Address _____ Zip Code _____
Current Title and Business or Institution Name & Address _____

Phone _____ Fax _____ e-mail _____ Zip Code _____

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

SUBSCRIPTION MEMBERSHIP \$ 70.00

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

SIGNATURE OF APPLICANT: _____

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

The Aquatic Plant Management Society, Inc.
Post Office Box 1477
Lehigh, Florida 33970-1477