

PROGRAM

THIRTY-NINTH
ANNUAL MEETING

THE AQUATIC
PLANT MANAGEMENT
SOCIETY, INC.



RADISSON HOTEL ASHEVILLE
ASHEVILLE NORTH CAROLINA
JULY 11-14, 1999

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6120 W. Douglas Ave.
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Michael R. Stewart
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US Army Engineer Research
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3909 Halls Ferry Road
Vicksburg, MS 39180-6199

John D. Madsen
Editor

US Army Engineer Research
and Development Center
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

Directors

Eric Barkemeyer

Cygnat Enterprises, Inc.
P O Box 543
Oxford, NC 27565

William Haller

Center For Aquatic Plants
University of Florida
7922 NW 71st St. Street
Gainesville, FL 32653

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Aquatic Technologies, Inc.
3421 James Phillips Drive
Okemos, MI 48864

Stratford Kay

NC State University
Crop Science
P O Box 7620
Raleigh, NC 27695

Ken Manual

Duke Power Company
Applied Sciences Center
13339 Hagers Ferry Road
Huntersville, NC 28078

Tom McNabb

Aquatics Unlimited
827 Arnold Drive
Ste. 80
Martinez, CA 94553

SUNDAY, JULY 11, 1999

- 8:30am-3:00pm APMS Board of Directors Meeting - Cherokee
- 12:00 noon - 5:00pm Exhibitor Display Set Up - Asheville Community Theater
- 12:00 noon - 5:00pm Poster Display Set Up - Swannanoa
- 3:00-6:00pm Registration - Lobby
- 7:00-9:00pm President's Reception - Top of the Plaza - All Delegates Invited

MONDAY, JULY 12, 1998

- 8:00am-5:00pm Registration - Lobby
- 8:00am-5:00pm Exhibits - Asheville Community Theater
- 8:00am-5:00pm Posters - Swannanoa
- 8:00am-5:00pm Presenters' Slide Viewing - Berkley
- 8:45am-3:30pm Spouses' Tour

Spouses Tour

Monday, July 12, 1999

Sponsored by Applied Biochemists

8:45 am - 3:30 pm

Join Applied Biochemists as a participant on the Spouse's Tour and you will enjoy first hand exposure to Asheville's 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.

SESSION I - Asheville Community Theater -

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: Finding Consensus.
Bruce Shupp, Conservation
Director, B.A.S.S.

9:35 am Navigating the 90's - Aquatic Plant
Control in Florida
Jeff Schardt, Florida Department
of Environmental Protection

9:50 am The Santee Cooper Lakes: Lessons
Learned After 10 years
Steve de Kozlowski, South
Carolina Department of Natural
Resources

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, Washington,
DC

10:50 am Aquatic Ecosystem Restoration
Foundation ... Three Years of
Progress
Michael Moore, Executive
Director, Aquatic Ecosystem
Restoration Foundation, Lansing,
MI

11:05 am ANNUAL APMS BUSINESS
MEETING, President David
Spencer Presiding

11:45 am LUNCH

11:45am Aquatic Ecosystem Restoration
Foundation (AERF) Lunch and
Board of Directors Meeting
Cherokee

SESSION II: - Asheville Community Theater-

Chemical

Moderator:

Dr. 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, Stratford H. Kay, North
Carolina State University, Raleigh,
NC.

2:15 pm

Magnitude of Residues of Endothal
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
Getsinger, U.S. Army Engineer
Research and Development
Center, Vicksburg, MS.

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

6:30-9:00 PM **RECEPTION - Taylor
Ranch - Board Buses in
front of hotel at 5:30pm**

RECEPTION

Monday, July 12, 1999

Sponsored
by
SePRO Corporation

Join SePRO Corporation for a North Carolina Pig Pickin'! The festivities will be held at the Taylor Ranch, a 500 acre working Paint horse and Texas Longhorn cattle ranch located in the mountains just 30 minutes from downtown Asheville. Buses will board in front of the hotel at 5:30pm for the scenic ride to the ranch. Upon arrival, enjoy a North Carolina Pig Pickin', consisting of barbecue pork, grilled boneless chicken breast, ranch style beans, potato salad, cole slaw, rolls and assorted desserts, along with soft drinks, sweet tea, coffee, beer and wine. The evening wouldn't be complete without the traditional campfire marshmallow roast. SePro is happy to offer a taste of North Carolina heritage at the Taylor Ranch during this year's meeting. **Buses will board in front of the hotel beginning at 5:30 pm.**

TUESDAY, JULY 13, 1999

6:30-8:00 am APMS Regional Chapter Presidents' Breakfast - Cherokee

8:00 am-5:00 PM Registration - Lobby

8:00 am-5:00 PM Exhibits - Asheville Community Theater

8:00 am-5:00 PM Posters - Swannanoa

8:00 am-5:00 PM Presenters' Slide Viewing - Berkley

SESSION III - Asheville Community Theater-

Ecology

Moderator: **Dr. John Madsen**

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 Molecular Markers: Useful for Decision Making in Biocontrol Weed Management **Paul T. Maderia**, Thai K. Van and Ted D. Center, USDA-ARS, Aquatic Weed Control Research, Ft. Lauderdale, FL

8:30 am Emergence of Vegetative Propagules of *Potamogeton nodosus*, *Potamogeton pectinatus*, *Vallisneria spiralis*, 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 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 Survivorship and Biomass Accumulation of North Carolina *Juncus effusus* and *Vallisneria americana* in Four North Carolina Lake Sediments.
Jon M. Stucky, and Stratford Kay, and Steve Hoyle, North Carolina State University

11:15 am Economics of Aquatic Plant Management: Looking at the Costs Side (WU#31557)
Jim E. 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 Potential Recruitment of Sunfishes in a Vegetated Reservoir Based on Larval and Juvenile Fish Abundance (WU# 32944)
K. Jack Killgore, U.S. Army Research and Development Center, Vicksburg MS; William D. Pearson, University of Louisville, Louisville, KY

12:00 noon LUNCH

SESSION IV - Asheville Community Theater-

Salvinia

Moderator: **Dr. Michael Smart**

1:00 pm The Spread and Spread of *Salvinia molesta*:
David Mitchell, Charles Sturt University, Albury, Australia.

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.

2:00pm Eradication of *Salvinia molesta* from a Small Pond in Colleton County, SC.
Jack M. Whetstone, Clemson University, Georgetown, SC; Steven de Kozlowski, SC Department of Natural Resources, Columbia, SC; Cynthia Aulbach, Botanical Services of South Carolina, Columbia, SC.

2:15 pm U.S. Distribution and Predicted Range of *Salvinia molesta*: Using Education to Prevent Spread
Colette Jacono, United States Geological Survey

2:30 pm BREAK

2:45 pm Biological Control and Integrated Management of *Salvinia molesta*.
Mic Julien Commonwealth Scientific and Industrial Research Organisation (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
- 3:45-5:00 pm Civil Works R & D Program Review for the APCRP. Corps of Engineers Representatives Only - Alexander
- 6:00-10:00 pm **APMS Banquet and Awards Ceremony - Off Site - Sponsored by Elf Atochem**

WEDNESDAY, JULY 14, 1999

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

Session V - Asheville Community Theater - Native Plant Restoration

Moderator: **Dr. 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)
R. 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 Restoring 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 Evaluation of Methods for Establishing Native Aquatic Vegetation in Seven Texas Reservoirs.
Mark Webb, Texas Parks and Wildlife Department, Bryan, TX
- 9:15 am An Integrated Approach to Managing Aquatic Plants at Lake Jacksonville Texas
Richard Ott, Texas Parks and Wildlife Department-Inland Fisheries, Tyler, TX

9:30 am Aquatic Plant Establishment as Restitution for a Fish Kill.
Ken Rice, Texas Parks and Wildlife Department, Corpus Christi, TX; Dr. 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 - Asheville Community Theater

General

Moderator TBA

10:15 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.

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

10:45 am Modeling Growth of Two Desirable Aquatic Macrophyte Species, Sag 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 Population Response of Triploid Grass Carp to Declining Levels of Hydrilla in the Santee Cooper Reservoirs, South Carolina.
James P. Kirk, J. V. Morrow and K.J. Killgore, U.S. Army Research and Development Center, Vicksburg MS; S. J. de Kozłowski, South Carolina Department of Natural Resources; J. W. Preacher, U.S. Army Engineer District, Charleston, SC.

11:30 am Aquatic Moth Stops Formation of Eurasian Watermilfoil Canopy
Robert L. Johnson, Cornell University, Ithaca, NY

11:45 am Aquatic Weed Problems in Reservoirs in Brazil.
Robinson Pitelli, Brazil Agricultural University, San Paulo, Brazil

12:00 noon FINAL BUSINESS MEETING AND
INSTALLATION OF 1999-2000
OFFICERS
President David Spencer,
Presiding
ADJOURN

12:00 noon APMS Board of Directors Meeting -
Cherokee

Posters Swannanoa

Distribution of *Salvinia molesta* (D. S. Mitchell) in the U.S., and the Status of *Cyrtobagous saivinia* (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 E. Cofrancesco and Michael Grodowitz, U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Naturalized Aquatic Insects Impacting Eurasian Watermilfoil (WU# 33189). Alfred E. 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 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 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 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, Caledonia, 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 Ecosystem Research Facility, Spring Valley, WI.

Influence of Water Temperature on the Efficacy of Diquat and Endothal versus Curlyleaf Pondweed (WU# 33187). John Madsen, U.S. Army Engineer Research and Development Center, Vicksburg, MS, Mike 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 Hygrophylla. 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

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