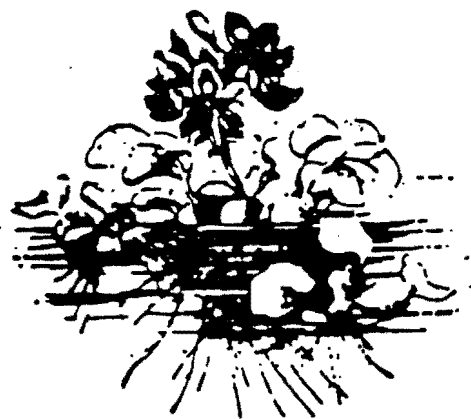


# **PROGRAM**

THIRTIETH  
ANNUAL MEETING

**THE  
AQUATIC PLANT  
MANAGEMENT  
SOCIETY, INC.**



**RADISSON ADMIRAL SEMMES  
Mobile, Alabama  
July 15-18, 1990  
Sunday Through Wednesday**

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# THE PROGRAM

## THIRTIETH ANNUAL MEETING OF THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

July 15-18, 1990

RADISSON ADMIRAL SEMMES  
Mobile, Alabama

### SUNDAY, JULY 15, 1990

- 10:00 a.m. **COMMITTEE MEETINGS**  
Board Rooms — To Be Announced
- 12:00 Noon **BOARD LUNCHEON**  
Ballroom A
- 1:00 p.m. **BOARD OF DIRECTORS MEETING**  
Cove Room
- 3:00 p.m.- **REGISTRATION**  
6:00 p.m. Mezzanine
- 6:30 p.m.- **PRESIDENT'S RECEPTION**  
7:30 p.m. Ballroom C and Mezzanine  
Exhibits on Display

### MONDAY, JULY 16, 1990

- REGISTRATION**  
8:00 a.m. — 5:00 p.m.  
Mezzanine
- EXHIBITS ON DISPLAY**  
9:00 a.m. — 5:00 p.m.  
Mezzanine

### SESSION I

8:30 a.m. — 5:00 p.m.  
Crystal Ballroom

Presiding: David Sutton, President

- 8:30 a.m. **CALL TO ORDER**
- 8:30 a.m. **INVOCATION:** G. Douglas Pullman
- 8:35 a.m. **WELCOME:** Honorable Michael C. Dow, Mayor,  
City of Mobile, Alabama
- 8:45 a.m. **ANNOUNCEMENTS:** Joseph C. Joyce,  
Program Chairman

**IMPACTS OF AQUATIC WEEDS OR  
WHY WE DO WHAT WE DO**

- 8:50 a.m. **APMS CHAPTER REPORTS**  
Florida APMS: Brian Nelson  
South Carolina APMS: Ken Manuel  
Midsouth APMS: Barry Smith  
Midwest APMS: G. Douglas Pullman  
Texas APMS: Joyce Johnson  
Western APMS: David Spencer
- 9:20 a.m. **PRESIDENTIAL ADDRESS:** David Sutton
- 9:35 a.m. **ANNUAL BUSINESS MEETING**  
Presiding, David Sutton, President
- 10:15 a.m. **BREAK**
- 10:45 a.m. **KEYNOTE ADDRESS: "Aquatic Plant Management  
— Where have we come from and where are we  
going?"**  
Alva Burkhalter, Monsanto Corporation, 1515  
Johnson Ferry Rd. Suite 20, Marietta, GA 30062.
- 11:15 a.m. **HISTORY AND DEVELOPMENT OF AQUATIC  
WEED CONTROL IN THE UNITED STATES.**  
William T. Haller and John Gallagher. University  
of Florida, Center for Aquatic Plants, 7922 NW  
71st St., Gainesville, FL 32606 and 6301 Winthrop  
Dr., Raleigh, NC 27612.
- 11:45 a.m. **ADJOURN FOR LUNCH**

Presiding: Bill Zattau  
Operations Support Center, Jacksonville District  
Corps of Engineers, Jacksonville, Florida

- 1:00 p.m. **Maintaining Navigation: One Aspect of the U.S.  
Army Corps of Engineers Role in Aquatic Plant  
Management.**  
Bill Zattau and A. Galloway. Aquatic Plant  
Operations Support Center, Corps of Engineers,  
P.O. Box 4970, Jacksonville, FL 32232.
- 1:15 p.m. **Aquatic Plants and Public Health Insects.**  
Charlie Morris. Florida Medical Entomological  
Lab, Institute of Food and Agricultural Sciences,  
University of Florida, 200 9th Street SE, Vero  
Beach, FL 32962-4657.
- 1:30 p.m. **Economic Effects of Aquatic Weeds on Sport  
Fishing.**  
Wally Milon. Department of Food and Resource  
Economics, Institute of Food and Agricultural  
Sciences, University of Florida, Gainesville, FL  
32611.
- 1:45 p.m. **Integrated Aquatic Plant Management in Flood  
Control Canals of South Florida.**  
Joe Schweigart. Division of Resource Operations,  
South Florida Water Management District, P.O.  
Box 24680, West Palm Beach, FL 33416-4680.
- 2:00 p.m. **Aquatic Weeds and Irrigated Agriculture in the  
Southwestern U.S.**  
Randall Stocker. Technical Manager, Technical  
Services Department, Imperial Drainage District,  
Imperial, CA 92251.
- 2:15 p.m. **Relationship of Aquatic Plants to Water Quality and  
Sportfish Populations.**  
Daniel Canfield. Department of Fisheries and  
Aquaculture, Institute of Food and Agricultural  
Sciences, University of Florida, 7922 N.W. 71st St.,  
Gainesville, FL 32606.
- 2:45 p.m. **BREAK**

**SPOUSES' BRUNCH**

Guest Speaker — History and Sites of Mobile

10:30 A.M. Monday, July 16, 1990

Cove Room

**TUESDAY, JULY 17, 1990**

**GENERAL SESSION**

- 3:00 p.m. **Towards Improving Herbicide Application and Detection in Moving Water.**  
Alison M. Fox and W. T. Haller. Center for Aquatic Plants, University of Florida, 7922 N.W. 71st St., Gainesville, FL 32606.
- 3:15 p.m. **The Use of Herbicides to Control Nuisance Aquatic Species in the Maintenance of Mitigation Areas.**  
Jay R. Heidt. President Aqua-Terra Services, P.O. Box 6698, Seffner, FL 33584-6698.
- 3:30 p.m. **Herbicide Concentration and Exposure Time Relationships for the Control of Hydrilla and Eurasian Watermilfoil.**  
Mike Netherland and K. D. Getsinger. U.S. Army Corps of Engineers, Waterways Experiment Station, 3909 Halls Ferry Road, Vicksburg, MS 39180.
- 3:45 p.m. **Eradication of Hydrilla from Eastman Lake and the Chowchilla River**  
Nate Dechoretz. California Department of Food and Agriculture, Sacramento, CA.
- 4:00 p.m. **Sonar Update — Flowing Water Experimental Use Permit.**  
David P. Tarver. DowElanco, 1499 Morning Dove Rd., Tallahassee, FL 32312.
- 4:15 p.m. **Greenhouse Studies for Torpedograss Control with Fluridone.**  
Paul L. Thayer, W. T. Haller, D. G. Shilling and C. G. Hanlon. Center for Aquatic Plants, Institute of Food and Agricultural Sciences, University of Florida, 7922 NW 71st St., Gainesville, FL 32606.
- 4:30 p.m. **Optimizing Diquat Treatment of Benthic Mats of *Lyngbya wollei*: A Field Study.**  
Lawrence A. Dyck and B. J. Speziale. Department of Biological Sciences, Clemson University, Clemson, SC 29634-1903.
- 4:45 p.m. **Polyploidy in *Hydrilla verticillata*.**  
Kenneth A. Langeland, D. G. Shilling and K. K. Steward. Center for Aquatic Plants, University of Florida, Gainesville and USDA/ARS Aquatic Weed Control Lab, Ft. Lauderdale, FL.
- 5:00 p.m. **ADJOURN**
- 5:15 p.m. **Federal Aquatic Plant Management Working Group**  
Mardi Gras Queens Room

**Local Chapter President's Breakfast**

6:45 — 8:00 a.m.

Stateroom C

Sponsor: Valent USA, Inc.

**REGISTRATION**

8:00 a.m. — 3:00 p.m.

**EXHIBITS ON DISPLAY**

8:00 a.m. — 3:00 p.m.

**SESSION II**

8:30 a.m. — 3:30 p.m.

Crystal Ballroom

**CONTRIBUTED PAPERS**

Chairperson & Moderator: G. Douglas Pullman  
Cygnat Enterprises, Inc.  
Linden, Michigan

- 8:00 a.m. **Influence of Spikerush Herbage on Growth of Hydrilla.**  
David L. Sutton and K. M. Portier. University of Florida, Institute of Food and Agricultural Sciences, Ft. Lauderdale Research and Agricultural Center, 3205 College Ave., Ft. Lauderdale, FL 33314.
- 8:15 a.m. **The Long Term Effect of 2,4-D on Non-Target Spatterdock.**  
Charles Hanlon and W. T. Haller. Center for Aquatic Plants, Institute of Food and Agricultural Sciences, University of Florida, 7922 NW 71st Street, Gainesville, FL 32606.
- ① 8:30 a.m. **Ecological Aspects of Redroot (*Lacnathes tinctoria* Ell.) and Its Control**  
F. E. Katz and D. N. Riemer. Rutgers University, Dept. of Crop Science. Cook College, Lipman Hall, P.O. Box 231 New Brunswick, NJ 08903-0231.  
**STUDENT PAPER**
- ② 8:45 a.m. **Uptake and Accumulation of Selenium by the Rooted Aquatic Macrophyte, *Ruppia maritima*.**  
Frank C. Bailey, S. J. Klaine and A. W. Knight. Memphis State University and Department of Land, Air and Water Resources, University of California, Davis.  
**STUDENT PAPER**
- ③ 9:00 a.m. **Effects of Fluridone Treated Irrigation Water on St. Augustine Grass.**  
Wendy Andrew. Center for Aquatic Plants, 7922 N.W. 71 St., Gainesville, FL 32606 and Southwest Florida Water Management District, Brooksville, FL 33512-9712.  
**STUDENT PAPER**
- ④ 9:15 a.m. **Comparative Effects of Antagonistic Ions on Glyphosate Efficacy on Torpedograss.**  
Greg McDonald, D. G. Shilling, W. T. Haller and M. A. Mossler. Department of Agronomy, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611.  
**STUDENT PAPER**

- 5 9:30 a.m. **The Role of Iron in the Growth of *Lyngbya majescula*.**  
Elsie Gross and D. F. Martin. Institute for Environmental Chemistry, University of South Florida, 4202 E. Fowler Ave. Tampa, FL 33620-5250.  
**STUDENT PAPER**
- 6 9:45 a.m. **Critical P Concentration and Seasonal Variation in Biomass Allocation and Productivity of *Myriophyllum aquaticum*.**  
Mark D. Sytsma and Lars W. J. Anderson. Department of Botany and USDA/ARS Aquatic Weed Research Laboratory, University of California, Davis, CA 95616.  
**STUDENT PAPER**
- 10:00 a.m. **COFFEE BREAK**
- 7 10:15 a.m. **Microbial Degradation of Fluridone.**  
Mark Mossler. Department of Agronomy, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611.  
**STUDENT PAPER**
- 10:30 a.m. **Novel Effects of the Herbicide, Mariner, on the Reproductive Biology of Aquatic Weeds: Implications for Long-Term Management Strategies.**  
Lars W. J. Anderson and Stuart Perry. USDA/ARS Aquatic Weed Control Research Lab, University of California, Davis, CA 95616.
- 8 10:45 a.m. **The Effects of Slow-Release Fertilizer Application on Wild Rice Production.**  
Jan Miller and P. F. Lee. Department of Biology, Lakehead University. Thunder Bay, Ontario, Canada P7B 5E1.  
**STUDENT PAPER**
- 11:00 a.m. **Grass Carp — All or Nothing for Submersed Weed Control in Southern Waters.**  
William T. Haller Center for Aquatic Plants, Institute of Food and Agricultural Sciences, University of Florida, 7922 NW 71st Street, Gainesville, FL 32606.
- 9 11:15 a.m. **Sediment Characteristics That May Influence Aquatic Plant Distributions in the United States.**  
Burton C. Suedal and J. H. Rodgers, Jr. Department of Biology, University of Mississippi, University, MS 38677.  
**STUDENT PAPER**
- 10 11:30 a.m. **Exotic Aquatic Plant Index.**  
M. Christine Flynn, D. F. Martin and C. D. Morris. Institute for Environmental Studies, Department of Chemistry, University of South Florida, 4202 E. Fowler Ave., Tampa, FL 33620-5250.  
**STUDENT PAPER**
- 11 11:45 a.m. **The Peroxidase Response of *Hydrilla verticillata*, (Royle) to Sublethal Concentrations of Heavy Metals and Sulfometuron Methyl.**  
Tom Byl and S. J. Klaine. Department of Biology, Memphis State University, Memphis, TN 38152.  
**STUDENT PAPER**

12:00 Noon **RECESS FOR LUNCH**

## INVITED AND CONTRIBUTED PAPERS

- John Barko*  
Chairperson & Moderator: John Barko  
U. S. Army Corps of Engineers  
Waterways Experiment Station  
Vicksburg, Mississippi
- 1:00 p.m. **Factors Influencing the Distribution and Growth of *Lyngbya*.**  
Barbara J. Speziale and L. A. Dyck. Department of Biological Sciences, Clemson University, Clemson, SC 29634-1903.
- 1:15 p.m. **Effects of Sediment Fertility and Initial Plant Density on the Growth of *Hydrilla* and *Potamogeton*.**  
D. G. McFarland, J. W. Barko and N. J. McCreary. Environmental Laboratory, USAE Waterways Experiment Station, Vicksburg, MS 39180-6199.
- 1:30 p.m. **Regenerative Capacity of *Myriophyllum aquaticum* Cultured *in vitro*.**  
Michael E. Kane and D. McDonnell. Environmental Horticulture Department, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611.
- 1:45 p.m. **Interactions Between Two Pondweeds Across a Light Gradient.**  
David F. Spencer and G. G. Ksander. USDA/ARS Aquatic Weed Research Laboratory, University of California, Davis, CA 95616-8537.
- 2:00 p.m. **Competition Among Different Species of Aquatic Macrophytes: A New Zealand Example.**  
Mark R. Rattray. Department of Botany, University of Florida, 3157 McCarty Hall, Gainesville, FL 32611.
- 2:15 p.m. **Growth and Photosynthesis of *Hydrilla* as a Function of Temperature.**  
George Bowes and M. R. Rattray. Department of Botany and Center for Aquatic Plants, University of Florida, 3157 McCarty Hall, Gainesville, FL 32611.
- 2:30 p.m. **The Ecology and Management of Eurasian Watermillfoil in Lake George, New York.**  
John D. Madsen. Lewisville Aquatic Plant Research Facility, Lewisville, TX 75056.
- 2:45 p.m. **Revegetation of Northern Lucustrine Littoral Zones Dominated by *Myriophyllum spicatum*.**  
Glenn Guntenspergen, J. Keough and D. Les. U.S. Fish and Wildlife Service. 1010 Gause Blvd, Slidell, LA 70458 and U. of Wisconsin, Center for Great Lakes Studies.
- 3:00 p.m. **Ecology of Eurasian Watermillfoil Invasions and Declines.**  
Craig S. Smith. Environmental Lab, U.S. Army COE, 3909 Halls Ferry Rd., Vicksburg, MS 39180.
- 3:15 p.m. **Role of the Littoral Zone in Lucustrine Nutrient Dynamics.**  
John W. Barko. Waterways Experiment Station, Environmental Laboratory, Vicksburg, MS 39180.
- 3:30 p.m. **ADJOURN for evening activities at the Beach**
- 4:00 p.m. **Buses leave for Gulf Shores**

WEDNESDAY, JULY 18, 1990

SESSION III

8:00 a.m. — Noon

Crystal Ballroom

*Nethand*

CONTRIBUTED PAPERS

Chairperson & Moderator: Ken Langeland  
Assistant Professor, Center for Aquatic Plants  
University of Florida — IFAS  
Gainesville, Florida

TUESDAY EVENING PROGRAM

JULY 17, 1990

5:00 p.m. - 7:00 p.m.

**Fun on the Beach**

Showers and changing facilities are available at the beach  
so plan on swimming and volleyball.

7:00 p.m. - 7:45 p.m.

**Seafood Dinner**

Gulf Shores State Park Pavilion

7:45 p.m. - 8:15 p.m.

**Awards & Presentations**

President David Sutton

8:15 p.m. - 10:00 p.m.

**Special Entertainment  
Dance and Social**

10:00 p.m.

**Buses Leave for Hotel**

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- 8:00 a.m. **Response of Alligatorweed to Triclopyr Amine.**  
Stratford Kay. North Carolina State University,  
Box 7620, Raleigh, NC 27695-7620.
- 8:15 a.m. **Mechanical Control of Aquatic Plants via  
Rotovation.**  
Thomas J. McNabb. Aquatics Unlimited, 2150  
Franklin Canyon Rd., Martinez, CA 94553.
- 8:30 a.m. **Management of Waterhyacinths for Water Quality  
Improvement.**  
David L. Haselow, Amasek, Inc., 402 High Point  
Dr., Cocoa, FL 32926 and W. F. DeBusk,  
Department of Soil Science, University of Florida,  
Gainesville, FL.
- 8:45 a.m. **Diquat Residues Following Repetitive Treatments.**  
Joseph C. Joyce, K. A. Langeland and Francois  
LaRoche. Center for Aquatic Plants, Institute for  
Food and Agricultural Sciences, University of  
Florida, Gainesville, FL 32606.
- 9:00 a.m. **Effective Use of SONAR-SRP in Marginal  
Treatments for Control of *Myriophyllum spicatum*.**  
John H. Rodgers and Philip A. Clifford.  
Department of Biology, Biological Field Station,  
University of Mississippi, University, MS 38677.
- 9:15 a.m. **Herbicide Gravity Feeder.**  
A. F. Khattab and Z. A. El-Gharably. Research  
Institute of Weed Control and Channel  
Maintenance. 22 Galaa Street, Boulag, Cairo,  
Egypt.
- 9:30 a.m. **Effects of Application Rate and Exposure Time of  
Bensulfuron-methyl on *Hydrilla verticillata*.**  
Francois LaRoche and K. A. Langeland. Center for  
Aquatic Plants, Institute of Food and Agricultural  
Sciences, University of Florida, 7922 NW 71st  
Street, Gainesville, FL 32606.
- 9:45 a.m. **Establishing Grass Carp Stocking Rates for  
Southeastern Ponds.**  
Jay Shelton, Georgia Experimental Station, 1109  
Experimental Station, Griffin, GA 30223.
- 10:00 a.m. **Recent Advancements in Mechanical Means of  
Aquatic Plant Management.**  
Ronald W. Niznik and Brian D. Jackson.  
AquaDoc. 95 McNab Park Street, Brooks, Alberta,  
Canada T0J 0J0.
- 10:15 a.m. **The Florida Aquatic Plant Story: A Public Education  
Video.**  
Center for Aquatic Plants, University of Florida.  
7922 N.W. 71st Street, Gainesville, FL 32606.

10:45 a.m. **BREAK**  
 11:00 a.m. **BUSINESS MEETING AND INSTALLATION OF  
 1989-90 OFFICERS**  
 President David Sutton, Presiding  
 11:30 a.m. **ADJOURNMENT OF 30th ANNUAL MEETING**  
 12:00 Noon **BOARD OF DIRECTORS LUNCHEON AND  
 MEETING**  
 Cove Room

## 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 called 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, chemical, and other methods of aquatic plant management and aquatic plant sciences. The Society has grown to include several regional and state chapters; and 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 shall be to:

1. Encourage scientific research and assist in promoting the control and management of aquatic plants through scientifically sound procedures.
2. Recognize and promote scientific advancement of the members and facilitate the education of aquatic plant scientists through scholarships and other assistance programs.
3. Publish the results of meritorious research and other information of value that pertains to aquatic plants and their management.
4. Extend and develop public interest in, and understanding of, aquatic plant management problems and solutions.
5. Cooperate with local chapters and other societies and organizations with similar and related interests.

## APPLICATION FOR MEMBERSHIP IN: THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

**WILLIAM N. RUSHING, Secretary-Treasurer**  
 Post Office Box 2695  
 Washington, DC 20013-2695

There are four regular classes of membership available upon application made in accordance with the Charter. These classes are: (A) ACTIVE MEMBERSHIP (\$35.00); (B) STUDENT MEMBERSHIP (\$5.00); (C) SUSTAINING MEMBERSHIP (\$200.00); and (D) SUBSCRIPTION MEMBERSHIP (\$70.00).

Applicant's Name \_\_\_\_\_

Home Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Home Telephone \_\_\_\_\_

Title \_\_\_\_\_

Employer \_\_\_\_\_

Business Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Business Telephone \_\_\_\_\_

Membership Class Desired:

a. Active (\$35.00): \_\_\_\_\_

b. Student (\$5.00): \_\_\_\_\_

c. Sustaining (\$200.00): \_\_\_\_\_

d. Subscription (\$70.00): \_\_\_\_\_

Amount of Remittance Herewith \$ \_\_\_\_\_

Signature of Applicant \_\_\_\_\_

Date \_\_\_\_\_

\* Please indicate by asterisk which address you wish the Secretary-Treasurer's Office to use.

(Detach and Return)

**NOTES:**

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Orlando, Florida



**FUTURE MEETING SITES  
OF  
THE AQUATIC  
PLANT MANAGEMENT  
SOCIETY, INC.**

**1991 — Dearborn, Michigan  
July 14-17**

**1992 — Central Florida  
July 12-15**