

Program

TWENTY-SIXTH
ANNUAL MEETING

THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.



HYATT SARASOTA HOTEL
Sarasota, Florida, U.S.A.
July 13-16, 1986
Sunday through Wednesday

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THE PROGRAM

TWENTY-SIXTH ANNUAL MEETING OF THE AQUATIC PLANT MANAGEMENT SOCIETY, INC. July 13-16, 1986 Hyatt Sarasota Hotel Sarasota, Florida, USA

SUNDAY, JULY 13, 1986

- 12:00 Noon **Board Luncheon**
Convention Center*
- 1:00 p.m. **Meeting of the Board of Directors**
Convention Center
- 3:00 p.m.-
6:00 p.m. **Registration**
Lower Lobby
- 6:30 p.m.-
7:30 p.m. **President's Reception**
Convention Center Gallery
Exhibits on Display

MONDAY, JULY 14, 1986

- 8:00 A.M. - 5:00 P.M.
Registration - Lower Lobby
- 9:00 A.M. - 5:00 P.M.
Exhibits on Display - Convention Center Gallery

GENERAL SESSION I

- 8:30 A.M. - 12:00 Noon
Convention Center
- Presiding: Lars W. J. Anderson, President

- 8:30 a.m. **Call to Order**
8:35 a.m. **Invocation**
8:40 a.m. **Announcements - Dean F. Martin**
President-Elect and Program Chairman

* Room assignments for each function in the Convention Center will be posted.

- 8:45 a.m. **Presidential Address: Aquatic Plant Control in the 21st Century.**
Lars W. J. Anderson
- 9:00 a.m. **Keynote Address: The Printed Word, A Mirror for Evaluation**
J. L. Decell, Manager, Aquatic Plant Control Research Program, USAE Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180
- 9:45 a.m. **APMS Chapter Reports**
Florida APMS, David Tarver, President
Midsouth APMS, David Franks, President
Midwest APMS, Carole Lembi, President
South Carolina APMS, Harold Ornes, President
Western APMS, Winn Winkyaw, President
Canada (update), Scott Painter, Coordinator
- 10:00 a.m. **Aquatic Applicator's Financial Disaster- Liability Insurance**
Robert D. Blackburn, Joyce Environmental Consultants, Inc. 414 Live Oak Blvd., Casselberry, FL 32707 and John T. Williamson, Sihle & Williamson Insurance, Inc., 1051 Douglas Avenue, Altamonte Springs, FL 32701.
- 10:15 a.m. **Sonar - Fully Labeled**
David P. Tarver, Elanco - Eli Lilly, 2416 McWest Street, Tallahassee, FL 32303
- 10:30 a.m. **BREAK**
- 10:45 a.m. **Roundup: Chemical Mowing on Ditchbanks**
C. G. Erickson, Monsanto Chemical Company, Altamonte Springs, FL 32701.
- 11:00 a.m. **Aquatic Plants in Florida: Population Assessment and Management**
Jeffrey D. Schardt, Department of Natural Resources, 3900 Commonwealth Blvd., Tallahassee, FL 32303 (Summary paper).
- 11:30 a.m. **Annual Business Meeting**
11:30 a.m. - 12:00 Noon
Presiding: Lars W. J. Anderson, President
- 12:00-1:30 p.m. **LUNCH**

MONDAY, JULY 14, 1986

GENERAL SESSION II

Chairperson: Richard Comes
USDA, ARS, Prosser, Washington

- 1:30 p.m. **Seed Germination and Seedling Establishment of *Myriophyllum spicatum* (Haloragaceae)**
B. Dwain Vance and Timothy Coble, North Texas State University, Department of Biological Sciences, Denton, TX 76203.
- 1:45 p.m. **Regrowth of *Myriophyllum spicatum* L. Harvested to Several Depths in a Texas Reservoir**
Philip A. Clifford and John H. Rodgers Jr., Department of Biological Sciences, North Texas State University, Denton, TX 76203.
STUDENT CONTEST PAPER.
- 2:00 p.m. **Long-Term Effect of Harvesting on Eurasian Watermilfoil**
D. S. Painter, Environment Canada, AED, NWRI, P.O. Box 5050, Burlington, Ontario, Canada L7R 4A6.

- 2:15 p.m. **The Relative Effectiveness of 2,4-D and Endothall on *Myriophyllum heterophyllum***
Patricia M. Rocchio and John H. Rodgers Jr., Department of Biological Sciences, North Texas State University, Denton, TX 76203-5218.
STUDENT CONTEST PAPER
- 2:30 p.m. **Biological Control of Water Lettuce**
Catherine Thompson and Dale H. Habeck, Department of Entomology, University of Florida, Gainesville, FL 32611.
- 2:45 p.m. **Duckweed Culture for Removal of NH₄ and for Reduction of TSS from Algal Rich Waters**
S. M. Koles, R. J. Petrell, and L. O. Bagnall, Agricultural Engineering, Rogers Hall, University of Florida, Gainesville, FL 32611.
STUDENT CONTEST PAPER
- 3:00 p.m. **BREAK**
- 3:30 p.m. **Potential Management of Filamentous Algae by Photodynamic Action**
Barbara B. Martin, Dean F. Martin, and M. J. Perez-Cruet, CHEMS Center, Department of Chemistry, University of South Florida, Tampa, FL 33620
STUDENT CONTEST PAPER
- 3:45 p.m. **Experimental Trials with Integrated Control of Waterhyacinth**
Kim H. Haag, Bldg. 399, Archer Road Lab, University of Florida, Gainesville, FL 32611.
- 4:00 p.m. **Deficiency Symptoms and Calcium Nutrition of Waterhyacinth**
S. Newman, Center for Aquatic Weeds, 7922 N.W. 71st Street, Gainesville, FL 32606
STUDENT CONTEST PAPER
- 4:15 p.m. **Proximate Oxygen Demand of Three Aquatic Macrophytes: Use in Management of Aquatic Systems**
J. H. Rodgers Jr., D. L. Robinson, C. L. Missimer, and J. F. Hall, Department of Biological Sciences, and Institute of Applied Science, P. O. Box 13078, North Texas State University, Denton, TX 76203
- 4:30 p.m. **Fate of Glyphosate in Alligatorweed (*Alternanthera philoxeroides*)**
Thomas A. Tucker, Department of Crop Science, North Carolina State University, Box 7627, Raleigh, NC 27695.
STUDENT CONTEST PAPER
- 4:45 p.m. **Announcements and Adjourn**
- 5:00 p.m. **Federal Aquatic Plant Management Working Group**
Convention Center (Room will be posted)

TUESDAY, JULY 15, 1986

8:00 A.M. - 5:00 P.M.

Registration - Lower Lobby

9:00 A.M. - 5:00 P.M.

Exhibits on Display - Convention Center Gallery

GENERAL SESSION III

Convention Center

Chairperson: Randall Stocker
USDA, Brawley, California

- 9:00 a.m. **Seed Production by Monoecious Hydrilla**
K. A. Langeland and C. B. Smith, North Carolina State University, Crop Science Department, Box 7627, Raleigh, NC 27695
- 9:15 a.m. **Field Test of Granular Aquathol on Hydrilla in Gatun Lake, Republic of Panama**
Ricardo M. Guterrez and Cesar Von Chong, Aquatic Vegetation and Pollution Management, Panama Canal Commission, APO Miami 34011-5000.
- 9:30 a.m. **The Response of Hydrilla to Various Concentrations and Exposure Periods of Selected Aquatic Herbicides**
Thai K. Van and Richard D. Conant Jr., USDA, ARS, 3205 College Avenue, Fort Lauderdale, FL 33314.
- 9:45 a.m. **Effects of Certain Chemical Herbicides and Growth Retardants on *Cercospora rodmanii***
R. Charudattan, Department of Plant Pathology, University of Florida, Gainesville, FL 32601
- 10:00 a.m. **The Application of Genetic Engineering Technology for Aquatic Plant Management**
Edwin A. Theriot, USAE Waterways Experiment Station, P. O. Box 631, Vicksburg, MS 39180
- 10:15 a.m. BREAK
- 10:45 a.m. **A Method for Evaluating Growth of Hydrilla in Lake Sediments**
David L. Sutton, University of Florida, 3205 College Avenue, Fort Lauderdale, FL 33314
- 11:00 a.m. **Experimental Analysis of Interference Between Monoecious Hydrilla and Sago Pondweed**
David F. Spencer, USDA Aquatic Weed Laboratory, University of California, Davis, CA 95616
- 11:15 a.m. **Use of Synthetic Cytoklins to Inhibit Tuber and Turion Production in *Hydrilla verticillata* Royle**
S. J. Klaine and B. J. Knowles, Department of Biology, Memphis State University, Memphis, TN 38152
- 11:30 a.m. **Herbicide Residue Monitoring in Potable Waters Following Applications of Sonar and Diquat**
D. C. Schmitz, A. J. Leslie, L. E. Nall, and R. M. Kipker, Florida Department of Natural Resources, 3917 Commonwealth Blvd., Tallahassee, FL 32303
- 11:45 a.m. **Announcements**
- 12:00-1:30 p.m. LUNCH

TUESDAY, JULY 15, 1986

GENERAL SESSION IV

Chairperson: David Spencer
USDA, Davis, California

- 1:30 p.m. **The Triploid Grass Carp - A Tool for Aquatic Plant Management**
John A. Osborne and Eric A. Cotsenmoyer, Department of Biological Sciences, University of Central Florida, P. O. 25000, Orlando, FL 32816
- 1:45 p.m. **Efficacy of Triploid Grass Carp in Central Florida Lakes**
Rue S. Hestand III, Jeffrey L. Underwood, Boyd Z. Thompson, Florida Game and Fresh Water Fish Commission, P. O. Box 1903, Eustis, FL 32727
- 2:00 p.m. **Utilization of Triploid Grass Carp for Control of Floating Vegetation in Waste Water Retention Ponds**
Jeffrey L. Underwood, Rue S. Hestand III, Boyd Z. Thompson, Florida Game and Fresh Water Fish Commission, P. O. Box 1903, Eustis, FL 32727
- 2:15 p.m. **Production of Triploid Grass Carp**
Boyd Z. Thompson, Rue S. Hestand II, Jeffrey L. Underwood, Robert J. Wattendorf, Florida Game and Fresh Water Fish Commission, P. O. Box 1903, Eustis, FL 32727
- 2:30 p.m. **The Use of Hormone Induced Spawning Techniques to Test the Sterility of Triploid Grass Carp**
Neal T. Hagstrom and Randall K. Stocker, Imperial Irrigation District, USDA Irrigated Desert Research Station, 4151 Highway 86, Brawley, CA 92227 and Riochard G. Thiery and Paul R. Beaty, Coachella Valley Water District, P. O. Box 1058, Coachella, CA 92236
- 2:45 p.m. **Preferential Feeding by the White Amur in a Reservoir Embayment**
David H. Webb, A. Leon Bates, and Earl Burns, Tennessee Valley Authority, E&D Building, Muscle Shoals, AL 25660
- 3:00 p.m. **Management of Hydrilla and Other Aquatic Weeds in Agricultural Canals with Triploid Grass Carp**
David L. Sutton and Vernon V. Vandiver Jr., University of Florida, 3205 College Avenue, Fort Lauderdale, FL 33314
- 3:15 p.m. BREAK
- 3:30 p.m. **Spring Production of Monoecious Hydrilla Tubers and Turions**
L. W. J. Anderson, N. Dechoretz, M. Ames, and D. Gee, U.S.D.A./A.R.S. Aquatic Weed Control Research Laboratory, Botany Department, University of California, Davis, CA 95616
- 3:45 p.m. **Current Status of Research on Naturally Occurring Hydrilla Inhibitors**
Barbara B. Martin and Dean F. Martin, CHEMS Center, Department of Chemistry, University of South Florida, Tampa, FL 33620
- 4:00 p.m. **The Allelopathic Potential of *Brasenia schreberi***
Stella D. Elakovich, Department of Chemistry, University of Southern Mississippi, Hattiesburg, MS 39406-5043

WEDNESDAY, JULY 16, 1986

GENERAL SESSION V

Convention Center

Chairperson: Joseph C. Joyce
University of Florida, Gainesville, Florida

- 9:00 a.m. **The Effect of Salinity on *Hygrophilia polysperma***
Joseph C. Joyce, Center for Aquatic Weeds, University of Florida, Gainesville, FL 32606
- 9:15 a.m. **Control of Illinois Pondweed with Endothall Formulations**
W. T. Haller and D. D. Thayer, Center for Aquatic Weeds, University of Florida, Gainesville, FL 32606
- 9:30 a.m. **The Effects of Anaerobiosis and Waterhyacinth on the Growth of Bullrush**
D. F. Thayer, Florida Department of Natural Resources, 7922 N.W. 71st Street, Gainesville, FL 32606
- 9:45 a.m. **Effects of Nutrient Additions from Wastewater Treatment Plants on Selected Florida Streams**
D. E. Canfield and M. Hoyer, Department of Fisheries and Aquaculture, University of Florida, Gainesville, FL 32606
- 10:00 a.m. **Influence of Hydrilla on Angler Utilization, Fish Harvest and Monetary Expenditures on Orange Lake, Florida**
D. E. Colle, Department of Fisheries and Aquaculture, University of Florida, Gainesville, FL 32606
- 10:15 a.m. **Methods for Producing Triploid Grass and Blg-head Carp**
J. V. Shireman, S. J. Oldridge, and R. O. Marston, Department of Fisheries and Aquaculture, University of Florida, Gainesville, FL 32606
- 10:30 a.m. **BREAK**
- 10:45 a.m. **Final Business Meeting**
Installation of Officers for 1986-87

TUESDAY EVENING

July 15, 1986

6:30 P.M.
Cocktail Hour
and
Barbecue

Poolside Hyatt Sarasota
(Weather permitting)

FINAL BUSINESS MEETING

10:45 A.M. – 11:30 A.M.

Presiding: Lars W. J. Anderson, President

BOARD OF DIRECTORS

1:00 p.m. **Meeting of Board of Directors**
Convention Center

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

Post Office Box 16, Vicksburg, MS 39180

APPLICATION FOR MEMBERSHIP

There are three regular classes of membership available upon application made in accordance with the Charter. These classes are: (A) ACTIVE MEMBERSHIP (\$25.00); (B) STUDENT MEMBERSHIP (\$5.00); and COMMERCIAL SUSTAINING MEMBERSHIP (\$200.00).

Applicant's Name _____

Spouse's Name _____

Home Address _____

City, State, Zip _____

Home Telephone _____

Present Title _____

Present Employer _____

Business Address _____

City, State, Zip _____

Business Telephone _____

Membership Class Desired _____

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)

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Bethany, Connecticut

SPOUSES' PROGRAM

SUNDAY, JULY 13, 1986

6:30 P.M. – 7:30 P.M.
President's Reception
Convention Center Gallery

MONDAY, JULY 14, 1986

12:00 Noon
Ladies' Luncheon
(To be announced)

2:00 P.M.
Shopping Tour
Leave From Hotel Lobby

TUESDAY, JULY 15, 1986

6:30 P.M.
Cocktail Hour
and
Barbecue
Poolside (Weather permitting)

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

**1987 – Hyatt Regency Savannah
Savannah, Georgia, U.S.A.
July 12-15**

**1988 – Fairmont Hotel
New Orleans, Louisiana, U.S.A.
July 10-13**

1989 - To be determined