

Program

TWENTY-SEVENTH
ANNUAL MEETING

THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.



HYATT REGENCY HOTEL
Savannah, Georgia
July 12-15, 1987
Sunday through Wednesday

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THE PROGRAM

TWENTY-SEVENTH ANNUAL MEETING OF

THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

July 12-15, 1987

Hyatt Regency Hotel
Savannah, Georgia, USA

SUNDAY, JULY 12, 1987

- 12:00 Noon **Board Luncheon**
Percival/Vernon Rooms
- 1:00 p.m. **Meeting of the Board of Directors**
Sloane Room
- 3:00 p.m. - **Registration**
6:00 p.m. **Mezzanine Booth**
- 6:30 p.m. - **President's Reception**
7:30 p.m. **Mezzanine**
Exhibits on Display

MONDAY, JULY 13, 1987

8:00 a.m. - 5:00 p.m.

Registration
Mezzanine Booth

9:00 a.m. - 5:00 p.m.
Exhibits on Display
Mezzanine

GENERAL SESSION I

8:30 a.m. - 12:00 Noon
Regency Ballroom North

Presiding: Dean F. Martin, President

- 8:30 a.m. **Call to Order**
8:35 a.m. **Invocation** - Richard Couch
8:40 a.m. **Announcements** - Richard Comes
President-Elect and Program Chairman
8:45 a.m. **Presidential Address**
Dean F. Martin
9:00 a.m. **Keynote Address: "A Watery Jungle" - or Why**
There Is An Aquatic Plant Management Society
Today
Herbert J. Friedman, Tampa, FL 33601

- 9:20 a.m. **Potential Interactions Between the Aquatic Plant Management Society and the Weed Science Society of America**
Homer LeBaron, Vice President, WSSA, CIBA-Geigy Corporation, Greensboro, NC 27419
- 9:40 a.m. **APMS CHAPTER REPORTS**
Florida APMS, Michael Mahler, President
Midsouth APMS, Joe Stephenson, President
Midwest APMS, James Schmidt, President
South Carolina APMS, Steven de Kozlowski, President
Western APMS, Fred Nibling, Jr., President
Canada (update), Scott Painter, Coordinator
- 10:00 a.m. **BREAK**
- Regulations and Procedures to Limit the Spread of Noxious Aquatic Plants**
- 10:15 a.m. **Results of the Federal Working Group Survey**
J. L. Decell, Corps of Engineers, WES, Vicksburg, MS 39180
- 10:30 a.m. **Exclusion of Aquatic Federal Noxious Weeds by USDA APHIS PPQ**
Randy G. Westbrooks* and Daniel Fieselmann, USDA, APHIS, PPQ, Whiteville, NC 28472
- 10:50 a.m. **Prevention and Management of New Aquatic Plant Infestations in Florida**
Larry E. Nall, Florida Department of Natural Resources, Tallahassee, FL 32303
- 11:05 a.m. **California Laws and Regulations as They Relate to Hydrilla**
Leslie W. Sonder, California Department of Food and Agriculture, Sacramento, CA 95814
- 11:20 a.m. **Annual Business Meeting**
Presiding: Dean F. Martin, President
- 12:00 - **LUNCH**

MONDAY, JULY 13, 1987

GENERAL SESSION II

1:15 p.m. - 5:00 p.m.

Regency Ballroom North

Wetlands - Classification, Regulation, Utilization, and Revegetation

Chairperson and Moderator: Richard Couch
Natural Sciences Department, Oral Roberts University
Tulsa, Oklahoma

- 1:15 p.m. **The Wetland Classification System and the Associated Lists of Wetland Plants and Hydric Soils**
Porter B. Reed, Jr., Inland Freshwater Ecology Section, National Ecology Center, St. Petersburg, FL 33702
- 1:30 p.m. **Wetland Identification Under the "Swampbuster" Provision of the 1985 Food Security Act**
Edward R. Smith, USDA - Soil Conservation Service, Fort Worth, TX 76115
- 1:45 p.m. **Wetlands Regulations and Overview of Section 404 of the Clean Water Act**
Beverly Ethridge, U.S. Environmental Protection Agency, Region 4, Atlanta, GA 30365

- 2:00 p.m. **Overview of the Corps of Engineers Wetland Research Program**
Russell F. Theriot, USAE Waterways Experiment Station, Vicksburg, MS 39180-0631
ratory, Vicksburg, MS 39180-0631
- 2:15 p.m. **Revegetation of a Southeastern U.S. Floodplain Following Disturbance by Thermal Pollution**
Rebecca R. Sharitz* and Christopher P. Dunn, University of Georgia, Savannah River Ecology Laboratory, Aiken, SC 29801
- 2:30 p.m. **Lacustrine Vegetation Establishment Within a Cooling Reservoir**
Gary R. Wein*, Gary J. Pierce and Steven R. Kroeger, Savannah River Ecology Laboratory, Aiken, SC 29801
- 2:45 p.m. **A Successful Wetland Restoration and Management Program**
Robert D. Blackburn* and Gerald E. Fensch, Joyce Environmental Consultants, Inc., Lake Worth, FL 33461
- 3:05 p.m. **Coastal Plain Wetlands for Waste Water Management**
Robert L. Knight, Environmental Sciences, Gainesville, FL 32605
- 3:20 p.m. **OPEN DISCUSSION**
- 3:30 p.m. **BREAK**
- 3:45 p.m. **A Perspective on Pesticides and Water Pollution**
Dan Shankland, Center for Environmental Toxicology, University of Florida, Alachua, FL 32615
- 4:00 p.m. **Herbicide Scares Before the Fact**
Richard Hinterman, Aquatic Nuisance Plant Control, Inc., Linden, MI 48451
- 4:15 p.m. **What's On Down Under**
Kathleen H. Bowmer, CSIRO Centre for Irrigation and Freshwater Research, Griffith, New South Wales, 2680, Australia
- 4:30 p.m. **Aquatic Weed Problems and Control Methods in Malaysia**
Mashhor Mansor, School of Biological Sciences, Universiti Sains Malaysia, Penang, 11800, Malaysia
- 4:45 p.m. **DISCUSSION AND ADJOURN**
- 5:00 p.m. **Federal Aquatic Plant Management Working Group**
Westbrook Room

TUESDAY, JULY 14, 1987

6:45 a.m. – 8:15 a.m.

Local Chapter President's Breakfast

Savannah Room

8:00 a.m. – 5:00 p.m.

Registration

Mezzanine Booth

8:30 a.m. – 5:00 p.m.

Exhibits on Display

Mezzanine

GENERAL SESSION III

8:30 a.m. – 12 Noon

Regency Ballroom North

Weed and Water Resource Management Under Operational Conditions

Chairperson and Moderator: Dan Gorman
Hillsboro County Mosquito and
Aquatic Weed Control Department
Tampa, FL

- 8:30 a.m. **Aquatic Plant Management: The South Carolina Approach**
Steven J. de Kozlowski, South Carolina Water Resources Commission, Columbia, SC 29240
- 8:45 a.m. **Aquatic Plant Management on the Santee Cooper Lakes**
John R. Inabinet, South Carolina Public Service Authority, Moncks Corner, SC 29461
- 9:00 a.m. **Aquatic Weed Control in North Carolina**
David J. DeMont, North Carolina Department of Natural Resources and Community Development, Division of Water Resources, Raleigh, NC 27611
- 9:15 a.m. **Large Scale Aquatic Plant Management at Lake Seminole**
Joe Kight, U.S. Army Corps of Engineers, Chhattahoochee, FL 32324
- 9:30 a.m. **Aquatic Plant Management in TVA Reservoirs**
Earl Burns*, A Leon Bates and David H. Webb, Tennessee Valley Authority, Muscle Shoals, AL 35660
- 9:45 a.m. **Eradication of Hydrilla from Spring Lake in Sonoma County, California**
Leslie W. Sonder, California Department of Food and Agriculture, Sacramento, CA 95814
- 10:00 a.m. BREAK
- 10:15 a.m. **Surface and Aquatic Weed Control Methods in The Salt River Project, Phoenix, Arizona**
Winn Winkyaw, Salt River Project, Phoenix, AZ 85001

10:30 a.m. **Triploid Grass Carp Management and Sterility Evaluation in Imperial Valley, California**
Randall K. Stocker* and Neal T. Hagstrom, Imperial Irrigation District, Imperial, CA 92251, and Richard G. Thiery, Coachella Valley Water District, Coachella, CA 92236

10:45 a.m. **Control of Brazilian Elodea in a Piedmont North Carolina Reservoir Using a Winter Drawdown**
Ken Manuel*, Robert T. Barden, and Tommy W. Bowen, Duke Power Company, Environmental Services, Huntersville, NC 28078

~~11:00 a.m. **Drawdowns and Hydrilla Control**
W. T. Haller and J. V. Shireman, Center for Aquatic Weeds, University of Florida, Gainesville, FL 32606~~

11:15 a.m. **Development of an Aquatic Plant Management Plan for Lake George, New York**
Carol Desmormeau Collins, Biological Survey, New York Museum, Cultural Education Center, Albany, NY 12230

11:30 a.m. **Utilization of Aquatic Macrophytes for Phosphorus and Nitrogen Removal in Lake Okeechobee**
Ed Terczak, South Florida Water Management District, West Palm Beach, FL 33416-4680

11:45 a.m. OPEN DISCUSSION
12:00 LUNCH

TUESDAY, JULY 14, 1987

CONTRIBUTED PAPERS

1:15 p.m. – 5:00 p.m.

Section I

Regency Ballroom A

- Chariperson and Moderator: Steve Klaine,
Department of Biology, Memphis State University, Memphis, TN
- 1:15 p.m. **Plant Growth Regulators for Aquatic Plant Control**
Carole A. Lembi, Purdue University, Department of Botany and Plant Pathology, West Lafayette, IN 47907
- 1:30 p.m. **Influence of Natural and Synthetic Plant Growth Regulators on *Hydrilla verticillata* Royle**
Barbara J. Knowles* and Steve Klaine, Department of Biology, Memphis State University, Memphis, TN 38152
STUDENT CONTEST PAPER
- 1:45 p.m. **Allelopathy in Threesquare Burrreed and American Eelgrass**
Tai-Sheng Cheng* and Dorald N. Reimer, Department of Soils and Crops, Rutgers University, New Brunswick, NJ 08903
STUDENT CONTEST PAPER
- 2:00 p.m. **Physical Characteristics of Waterhyacinth Mats**
R. J. Petrell* and L. O. Bagnall, Agricultural Engineering Department, University of Florida, Gainesville, FL 32611
STUDENT CONTEST PAPER
- 2:15 p.m. **Environmental Fate and Persistence of the Herbicide Triclopyr (Garlon 3A) Applied to an Aquatic Environment: An EUP Field Study**
H. E. Westerdahl* and W. R. Green, USAE Waterways Experiment Station, Vicksburg, MS 39180 and J. C. Joyce, Center for Aquatic Weeds, University of Florida, Gainesville, FL 32606

- 2:30 p.m. **Use of Environmental Fate Information in Selection of Herbicides for Aquatic Plant Management**
J. F. Hall* and J. R. Rodgers, Jr., Institute of Applied Sciences, North Texas State University, Denton, TX 76203
STUDENT CONTEST PAPER
- 2:45 p.m. **Application and Validation of the COE-WES Harvest Model in Pat Mayse Lake, Texas**
Philip A. Clifford* and John H. Rodgers, Jr., Institute of Applied Sciences, North Texas State University, Denton, TX 76203
STUDENT CONTEST PAPER
- 3:00 BREAK
- 3:15 p.m. **Persistence of the Aquatic Herbicide Dichlobenil in the Field: A Pilot Study**
W. R. Green, H. E. Westerdahl, and K. D. Getsinger*, USAE Waterways Experiment Station, Vicksburg, MS 39180
- 3:30 p.m. **Comparative Study of the Fate and Effects of Diquat and 2, 4-D**
Patricia M. Rocchio* and John H. Rodgers, Jr., Institute of Applied Sciences, North Texas State University, Denton, TX 76203
STUDENT CONTEST PAPER
- 3:45 p.m. **Relationship Between Tissue Burden and Response of Hydrilla to Diquat.**
Kelly Michela Cassidy* and John H. Rodgers, Jr., Institute of Applied Sciences, Department of Biology, North Texas State University, Denton, TX 76203
STUDENT CONTEST PAPER
- 4:00 p.m. **The Use of Diquat-Alginate in Flowing Water**
Alison Fox* and Kevin Murphy, Botany Department, University of Glasgow, Glasgow, Scotland
- 4:15 p.m. **Species Abundance and Distribution in Seasonal Grass-Sedge Marshes in West-Central Florida**
Pamela S. Botts, University of South Florida, Tampa, FL 33620
STUDENT CONTEST PAPER
- 4:30 p.m. **Aquatic Macrophyte Change Detection: A Remote Sensing Methodology**
Bruce A. Davis* and John R. Jensen, Department of Geography, University of South Carolina, Columbia, SC 29208
STUDENT CONTEST PAPER
- 4:45 p.m. **Investigations into the Disappearance of Milfoil in the Kawartha Lakes, Ontario**
D. S. Painter, Environment Canada, NWRI, Burlington, Ontario, Canada
- 5:00 p.m. ADJOURN

TUESDAY, JULY 14, 1987

CONTRIBUTED PAPERS

1:15 p.m. - 5:00 p.m.

Section II

Regency Ballroom B

Chairperson and Moderator: Fred Nibling, Jr.
U. S. Bureau of Reclamation, Denver, CO

- 1:15 p.m. **The Characteristics of an Ideal Benthic Barrier**
G. Douglas Pullman, The Dow Gardens, Midland, MI 48640

- 1:30 p.m. **The Hi-Line Sprayer for Rodeo™ Herbicide**
Nelroy E. Jackson, Monsanto Company, El Toro, CA 92630
- 1:45 p.m. **Purple Loosestrife Control with Rodeo™ Herbicide**
Domingo C. Riego, Monsanto Company, Indianapolis, IN 46032
- 2:00 p.m. **The Effect of Water Hardness on Use of Glyphosate for Control of Torpedograss**
Donn Schilling*, W. T. Haller, and D. D. Thayer, Center for Aquatic Weeds, University of Florida, Gainesville, FL 32606
- 2:15 p.m. **The Physiology and Development of Lyngbya Mats**
B. J. Speziale, E. G. Turner, and L. A. Dyck, Department of Biological Sciences, Clemson University, Clemson, SC 29634-1903
- 2:30 p.m. **A Simple Method for Estimating the Biomass of Filamentous Algae**
James Evans, Department of Natural Resources, Game & Fish Division, Fort Valley, GA 31030
- 2:45 p.m. **Effect of Selected Dyes on Short-Term Growth of the Filamentous Blue-Green Algae, *Lyngbya majescula***
Barbara B. Martin, Dean F. Martin, and M. J. Perez-Cruet, CHEMS Center, Department of Chemistry, University of South Florida, Tampa, FL 33620
- 3:00 p.m. BREAK
- 3:15 p.m. **Sonar--One Year After EPA Registration**
David P. Tarver, Elanco-Eli Lilly, Tallahassee, FL 32312
- 3:30 p.m. **Responses of Five Aquatic Plant Species to Combinations of Fluridone and Copper**
Lars W. J. Anderson and Nathan Dechoretz, USDA Aquatic Weed Control Laboratory, Botany Department, University of California, Davis, CA 95616
- 3:45 p.m. **Does External Iron Influence Recovery From Fluridone Treatment?**
David Spencer*, Greg Ksander, and Nate Dechoretz, USDA Aquatic Weed Control Laboratory, Botany Department, University of California, Davis, CA 95616
- 4:00 p.m. **Greenhouse and Field Efficacy Studies on a New Aquatic Herbicide, Bensulfuron-methyl (Londax®)**
Lars W. J. Anderson, Nathan Dechoretz, and Doreen Gee, USDA Aquatic Weed Control Laboratory, Botany Department, University of California, Davis, CA 95616
- 4:15 p.m. **Laboratory Evaluations of the Relationships Between Herbicide Concentration and Exposure Time for the Control of Aquatic Plants**
W. R. Green* and H. E. Westerdahl, USAE Waterways Experiment Station, Vicksburg, MS 39180
- 4:30 p.m. **Rice Floodwater Ecology and Safe Acrolein Re-Use**
Kathleen H. Bowmer and Warren A. Muirhead, CSIRO Centre for Irrigation and Freshwater Research, Griffith, New South Wales 2680 Australia
- 4:45 p.m. **Melaleuca Control in Aquatic Sites - Loxahatchee National Wildlife Refuge, Florida**
Donald P. Schultz, U. S. Fish and Wildlife Service, Atlanta, GA 30303
- 5:00 p.m. ADJOURN

WEDNESDAY, JULY 15, 1987

8:00 a.m. – 12:00 Noon

Registration

Mezzanine Booth

9:00 a.m. – 11:00 a.m.

Exhibits on Display

Mezzanine

CONTRIBUTED PAPERS

9:00 a.m. – 11:30 a.m.

Section III

Regency Ballroom A

Chairperson and Moderator: Randall K. Stocker,
Imperial Irrigation District, Imperial, CA

TUESDAY EVENING

July 14, 1987

5:30 p.m.

**Harbor Tour and
Low Country Boil
Old Fort Jackson**

(Leave from Hotel dock)

- 9:00 a.m. **A Preliminary Evaluation of Low Density Grass Carp Stocking Rates on Aquatic Plant Biomass**
John Cassani, David Maloney, and Bill Caton, Lee County Hyacinth Control District, Fort Myers, FL 06005
- 9:15 a.m. **Tripliod Grass Carp Movement in a Large Hydrilla Infested Open System Lake in Central Florida**
Kenneth W. Phippen, Boyd Z. Thompson, and Rue S. Hestand, III, Florida Game and Freshwater Fish Commission, Eustis, FL 32727-1903
- 9:30 a.m. **Evaluation of Efficacy, Growth, Movement and Survival of Grass Carp in a Colorado Irrigation Canal**
Fred L. Nibling, Jr.*, and Joan S. Thullen, U. S. Bureau of Reclamation, Denver Federal Center, Denver, CO 80225-0007
- 9:45 a.m. **Efficacy of Triploid Grass Carp in Central Florida Lakes**
Rue S. Hestand, III, Boyd Z. Thompson, and Ken. W. Phippen, Florida Game and Fresh Water Fish Commission, Eustis, FL 32727-1903
- 10:00 a.m. **Enhancing Biological Control of Waterhyacinth Using Limited Herbicide Application**
Kim H. Haag, Department of Entomology and Nematology, University of Florida, Gainesville, FL 32611
- 10:15 a.m. **Growth and Survivorship for Sago Pondweed Grown from Different Size Tubers**
David Spencer, USDA Aquatic Weed Control Laboratory, Botany Department, University of California, Davis, CA 95616
- 10:30 a.m. **Winter Bud Germination in Response to Moisture and Its Implications for Aquatic Plant Management in Western Irrigation Canals**
David Spencer and Greg Ksander, USDA Aquatic Weed Control Laboratory, Botany Department, University of California, Davis, CA 95616
- 10:45 a.m. **BREAK**
- 11:00 a.m. **Final Business Meeting – Regency Ballroom A**
Installation of Officers for 1987-88
- 11:30 a.m. **Adjourn Twenty-seventh Annual Meeting**

WEDNESDAY, JULY 15, 1987

CONTRIBUTED PAPERS

9:00 a.m. – 11:30 a.m.

Section IV

Regency Ballroom B

Chairperson and Moderator: Carole A. Lembi,
Purdue University, Department of Botany and Plant Pathology,
West Lafayette, IN

- 9:00 a.m. **Use of Antibodies to Distinguish Biotypes of *Hydrilla verticillata***
Frederick J. Ryan, USDA Aquatic Weed Control Laboratory, Botany Department, University of California, Davis, CA 95616
- 9:15 a.m. **Can Native Aquatic Plants Coexist with Monoecious *Hydrilla*?**
David Spencer, USDA Aquatic Weed Control Laboratory, Botany Department, University of California, Davis, CA 95616
- 9:30 a.m. **Growth of *Hydrilla* From a Single Tuber**
David L. Sutton* and Thai K. Van, University of Florida and USDA, respectively, Fort Lauderdale, FL
- 9:45 a.m. **Effects of Temperature and Sediment Type on Growth and Morphology of Monoecious and Dioecious *Hydrilla***
D. G. McFarland and J. W. Barko, USAE Waterways Experiment Station, Vicksburg, MS 39180-0631
- 10:00 a.m. **Growth Response to pH's 5, 7, and 9 of 16 Separate Races of *Hydrilla (Hydrilla verticillata)***
K. K. Steward* and P. T. Madeira, USDA-ARS, Fort Lauderdale, FL 33314
- 10:15 a.m. **Use of Loran-C for Aquatic Surveys**
Lowell L. Trent, Florida Game and Fresh Water Fish Commission, Eustis, FL 32726
- 10:30 a.m. **Vegetative Regeneration of *Azolla pinnata* R. Br. from Lateral Shoots**
Dinesh Kumar Saxena and Sushil Kumar, Department of Botany, Bareilly College, Bareilly, U.P., India
- 10:45 **BREAK**
- 11:00 a.m. **Final Business Meeting – Regency Ballroom A**
Installation of Officers for 1987-88
- 11:30 a.m. **Adjourn Twenty-Seventh Annual Meeting**

FINAL BUSINESS MEETING

11:00 a.m. – 11:30 a.m.

Presiding: Dean F. Martin, President

BOARD OF DIRECTORS

- 12:00 Noon **LUNCH**
Savannah Room
- 1:00 p.m. **Meeting of Board of Directors**
Westbrook Room

SPOUSES' PROGRAM

SUNDAY, JULY 12, 1987

6:30 p.m. – 7:30 p.m.
President's Reception
Mezzanine

MONDAY, JULY 13, 1987

12:00 Noon
Luncheon
Sloane Room

HISTORICAL TOURS
(To be announced)

TUESDAY, JULY 14, 1987

5:30 p.m.
Harbor Tour and
Low Country Boil
Old Fort Jackson
(Leave from Hotel dock)

**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 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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AMERICAN LAKE AND CANAL
Concord, California

APPLIED BIOCHEMISTS, INC.
Mequon, Wisconsin

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Eldred, New York

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Kent, Washington

CHEVRON CHEMICAL CO.
Tucker, Georgia

ELANCO PRODUCTS COMPANY
Indianapolis, Indiana

J.L.B. INTERNATIONAL CHEMICALS, INC.
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**MONSANTO AGRICULTURAL
PRODUCTS COMPANY**
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NALCO CHEMICAL COMPANY
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UNIROYAL CHEMICAL COMPANY
Bethany, Connecticut

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

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

**1989 – Phoenix, Arizona, U.S.A.
July 16-19**

1990 – Florida