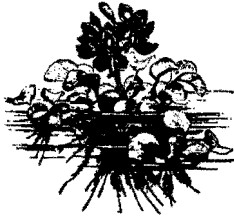


PROGRAM

THIRTY-THIRD
ANNUAL MEETING

THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.



AND

THE FIFTEENTH
ANNUAL MEETING

THE SOUTH CAROLINA AQUATIC PLANT MANAGEMENT SOCIETY, INC.



OMNI HOTEL
CHARLESTON, SOUTH CAROLINA
JULY 11-14, 1993
Sunday through Wednesday

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WELCOME TO CHARLESTON

On behalf of the Officers and Directors of the Aquatic Plant Management Society, I would like to welcome you to the thirty-third annual meeting of this organization. Its fitting that this meeting is being held in Historical Charleston because we to are making history. This is the first time the Society has held a joint annual meeting with one of our regional chapters. We're pleased to be here and excited about this special occasion. We have an excellent program planned and the South Carolina folks have worked hard to make our stay most enjoyable. So, soak up the knowledge, share in the fellowship, and savor the many delights of this beautiful city.

Clarke Hudson
President, APMS

Growing up in the rural South, we used to say, "Ya'll come, you hear?". Well you are here, and the South Carolina Aquatic Plant Management Society is most pleased to serve as your host. I think you will find Charleston and the "low country" of South Carolina one of the most enjoyable locations that you have ever visited. Relax, learn, and enjoy as you let yourself slip back into the lost years and charm of the old South. The members of the South Carolina Aquatic Plant Management Society are looking forward to assisting you in making this conference one of the best ever. We're glad you're here.

Jerry McSwain
President, SCAPMS

THE PROGRAM

THIRTY-THIRD ANNUAL MEETING OF THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

AND

FIFTEENTH ANNUAL MEETING OF THE SOUTH CAROLINA AQUATIC PLANT MANAGEMENT SOCIETY

JULY 11-14, 1993

OMNI HOTEL
CHARLESTON, SOUTH CAROLINA

SUNDAY, JULY 11, 1993

- 8:30 a.m. APMS Board of Directors Breakfast
Colleton Room
- 9:00 a.m. APMS Board of Directors Meeting
Colleton Room
- 1:00 p.m. SCAPMS Scholarship Golf Tournament
*Meet at Wild Dunes Harbor Course
on the Isle of Palms*
- 1:30 p.m. Carolina Bays Field Trip
*Meet in Main Lobby, Market St.
Entrance*
- 3:00 p.m. - 6:00 Registration
Grand Hall
- 6:00 p.m. SCAPMS Board of Directors Meeting
Beauregard Room
- 7:00 p.m. President's Reception
Grand Hall

MONDAY, JULY 12, 1993

REGISTRATION

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

EXHIBITS ON DISPLAY

9:00 a.m. - 5:00 p.m.
Grand Hall (Near Magnolia Ballroom)

SPOUSES' TOUR OF CHARLESTON AND LUNCHEON

10:30 a.m.-1:00 p.m.
Meet in Main Lobby, Market Street Entrance at 10:20 a.m.

Session I

Magnolia Ballroom

Presiding: Clarke Hudson, President

- 8:30 a.m. Call To Order
- 8:35 a.m. Welcome: **LT. Colonel Mark E. Vincent**,
District Engineer, U.S. Army Corps of
Engineers, Charleston District
- 8:45 a.m. Presidential Address: **Clarke Hudson**
- 9:05 a.m. Announcements: **Joe Zolczynski**,
Program Chairman
- 9:10 a.m. APMS Chapter Reports
South Carolina APMS Report and
Presidential Address: **Jerry McSwain**
Florida APMS: **Wayne Corbin**, President
MidSouth APMS: **Earl Burns**, President
Midwest APMS: **Greg Cheek**, President
Texas APMS: **Rhandy Helton**, President
Western APMS: **Paul Beaty**, President
- 9:45
9:50 a.m. **Break** *Rice Culture*
- 10:10 a.m. ~~Good News, Bad News from the Environ-
mental Protection Agency. **Carlton Layne**,
Chief of Pesticide Section, Environmental
Protection Agency, Atlanta, GA.~~
- 10:40 a.m. Carolina Bays and Their Vegetation
Communities. **Morgan McClure**, Carolina
Ecological Services Ltd., Charleston, SC.
- 11:10 a.m. Annual APMS Business Meeting
- 12:00 a.m. **Lunch**

Session II
Aquatic Plant Management in The Carolinas
Magnolia Ballroom

Moderator: Danny Johnson
South Carolina Water Resources Commission
Columbia, SC

- 1:15 p.m. Aquatic Plant Management Problems and Solutions in South Carolina. **Steven de Kozlowski**, S.C. Water Resources Commission, Columbia, SC.
- 1:30 p.m. Aquatic Weed Infestations Impacting the St. Stephen Hydroelectric Power House. **Jerry McSwain**, U. S. Army Corps of Engineers, St. Stephen, SC.
- 1:45 p.m. Aquatic Plant Control Operations on the Santee Cooper Lakes. **John Inabinet**, S.C. Public Service Authority, Moncks Corner, SC.
- 2:00 p.m. Grass Carp Movements and Habitats in Lake Marion, SC, 1989-91. **Jeffrey Foltz**, Clemson University, Clemson, SC.
- 2:15 p.m. Collection, Age, and Growth of Triploid Grass Carp in the Santee Cooper System. **James P. Kirk**, K. Jack Killgore, Larry Sanders, and James V. Morrow, U. S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- 2:30 p.m. Santee Cooper Sterile Grass Carp Production Program. **Jim Tuten**, S.C. Public Service Authority, Moncks Corner, SC.
- 2:45 p.m. Break
- 3:05 p.m. North Carolina Aquatic Weed Control - History and Scope. **Dave DeMont**, DEHNR-Division of Water Resources, Raleigh, NC.
- 3:20 p.m. Preliminary Evidence for Overlap Between Field Populations of Monoecious and Dioecious Hydrilla. C. R. Coley, S. T. Hoyle, **S. H. Kay**, and F. J. Ryan, North Carolina State University, Raleigh, NC, and USDA-ARS, Davis, CA.
- 3:35 p.m. Distribution and Physicochemical Properties of Lake Gaston Hydrosoils. **S. T. Hoyle**, C. R. Coley, S. H. Kay, North Carolina State University, Raleigh, NC.

- 3:50 p.m. Influence of Varying Lake Gaston Hydrosoils on Monoecious Hydrilla Growth. **C. R. Coley**, S. H. Kay, S. T. Hoyle, North Carolina State University, Raleigh, NC.
STUDENT PAPER
- 4:05 p.m. Dynamics of Lyngbya Infestations in Southeastern Reservoirs. **Larry Dyck**, Department of Biological Sciences, Clemson University, Clemson, SC.
- 4:20 p.m. Revegetation Strategies after the Cleanup of Lost Lake, a Contaminated Carolina Bay at the Savannah River Site, Aiken, SC. **Tanya Youngblood** and Harold Ornes, Dept. of Biology, University of South Carolina, Aiken, SC; Halkard E. Mackey, Jr., and R. Steven Riley, Environmental Sciences Section, Savannah River Technology Center, Aiken, SC.
STUDENT PAPER
- 4:50 p.m. South Carolina Aquatic Plant Management Society Business Meeting
- 7:00 p.m. Reception Sponsored by Elf Atochem.
Live Oak Ballroom

SPOUSES' PROGRAM

Sunday, July 11, 1993
7:00 p.m.

Presidents Reception
Grand Hall

Monday, July 12, 1993
10:30 a.m.-1:00 p.m.

Carriage Tour of Historic Charleston and Luncheon

Meet in Main Lobby, Market Street Entrance at 10:20 a.m.

(Sponsored by Helena Chemical Company)

Tuesday, July 13, 1993
6:30-10:30 p.m.

Evening at Boone Hall Plantation and Gardens

Meet in Main Lobby, Market Street Entrance at 5:45 p.m. to board buses (Dress casual and cool)

TUESDAY, JULY 13, 1993

6:45 a.m. APMS LOCAL CHAPTERS PRESIDENTS'
BREAKFAST
Colleton Room

Session III
Fish and Aquatic Plant Interactions
Magnolia Ballroom

Moderator: Ken Langeland
Center for Aquatic Plants, University of Florida
Gainesville, FL

- 8:30 a.m. Opening Remarks. **Ken Langeland**,
Center for Aquatic Plants, University
of Florida, Gainesville, FL.
- 8:40 a.m. There's Good Reason Bass Anglers
Appreciate Aquatic Vegetation. **Al Mills**,
Environmental Director, B.A.S.S. Inc.,
Montgomery, AL.
- 8:55 a.m. An Overview of the Relationship of
Aquatic Macrophytes and Fish Populations
in South Carolina Reservoirs. **Ross L.
Self**, Val S. Nash, and Richard W. Christie,
South Carolina Wildlife and Marine
Resources, Columbia, SC.
- 9:10 a.m. Management of Aquatic Plants on Lake
Guntersville, Alabama: Implications for
Largemouth Bass. **Michael J. Maceina**,
Department of Fisheries and Allied Aquac-
ulture, Auburn University, AL; Donny R.
Lowery, Tennessee Valley Authority,
Muscle Shoals, AL; William C. Reeves,
Alabama Department of Conservation and
Natural Resources, Montgomery, AL.
- 9:25 a.m. Effects of Aquatic Macrophytes on Chicka-
mauga Reservoir Fish Communities.
Edwin M. Scott, Jr., Tennessee Valley
Authority, Water Resources, Norris, TN.
- 9:40 a.m. Aquatic Macrophytes and Their Relation to
Fish Populations of Florida. **Mark V.
Hoyer** and Danial E. Canfield Jr., Univer-
sity of Florida, Gainesville, FL.
- 10:00 a.m. **Break**

- 10:15 a.m. Response of a Reservoir Ecosystem to
Aquatic Vegetation Removal. **Phillip W.
Bettoli**, Tenn. Coop. Fishery Research
Unit, Tennessee Tech. University., Cooke-
ville, TN; Michael J. Maceina, Dept. of
Fisheries and Allied Aquaculture, Auburn
University, Auburn, AL; Richard L. Noble,
Dept. of Zoology, North Carolina State
University, Raleigh, NC.
- 10:35 a.m. Fish Productivity and Aquatic Vegetation in
Selected Duke Power Company Reservoirs.
Steve Johnson and Ken Manuel, Duke
Power Company, Huntersville, NC; and
Mary Rodriguez, JMR Associates, Greens-
boro, NC.
- 10:50 a.m. Relationship of Submerged Aquatic Plants
to Fish Production and Lake Trophic Status
in Florida. **Forrest J. Ware**, Florida Game
and Fresh Water Fish Commission, Talla-
hassee, FL.
- 11:05 a.m. The Effects of 2,4-D on Largemouth Bass
Feeding Behavior. **Marvin Boyer**, Dept. of
Fisheries and Aquatic Science, University
of Florida, Gainesville, FL.
STUDENT PAPER
- 11:20 a.m. Alabama Power's Reservoir Habitat
Enhancement Program. **Douglas Powell**,
Alabama Power Co., Birmingham, AL.
- 11:35 a.m. Fish Plant Interactions: Research by the
U.S. Army Engineer Waterways Experiment
Station. **Jan J. Hoover**, Jack Killgore, Eric
D. Dibble, and James P. Kirk, U.S. Army
Engineer Waterways Experiment Station,
Vicksburg, MS.
- 11:50 a.m. **Lunch**

Session IV
General Session
Magnolia Ballroom

Moderator: Joyce Johnson
Texas Parks and Wildlife
Austin, TX

- 1:00 p.m. Control of Hydrilla Utilizing Triploid Grass Carp and Herbicides While Maintaining Littoral Vegetation. **John A. Osborne**, Department of Biology, University of Central Florida; and Eric Cotsenmoyer, Lake County Mosquito and Aquatic Plant Management Division
- 1:15 p.m. Grass Carp Herbivory of Eurasian Watermilfoil and Several Native Aquatic Plants on a Large Reservoir in Alabama. **Keith McKnight**, Dept. of Zoology and Wildlife Science, Auburn University, Auburn, AL.
STUDENT PAPER
- 1:30 p.m. Giant Cutgrass—Perfect Revegetation Tool or Perfect Menace? **Alison Fox** and Bill Haller, Center for Aquatic Plants, University of Florida, Gainesville, FL.
- 1:45 p.m. Physiology of Hydrilla Reproduction: Role of Abscissic Acid. **G. E. MacDonald**, D. G. Shilling and M. E. Kane, Departments of Agronomy and Environmental Horticulture and Center for Aquatic Plants, University of Florida, Gainesville, FL.
STUDENT PAPER
- 2:00 p.m. Effects of Light on Hydrilla Canopy Structure. **Lars W. J. Anderson**, Aquatic Weed Control Research Laboratory, Botany Dept., University of California, Davis, CA.
- 2:15 p.m. Tissue Culture Propagation of Wetland Plants: *Pontederia cordata*. **Nancy Philman** and Michael Kane, Department of Environmental Horticulture, University of Florida, Gainesville, FL.
- 2:30 p.m. In Vitro Shoot Regeneration in *Hygrophila polysperma*. Nancy Philman and **Michael Kane**, Department of Environmental Horticulture, University of Florida, Gainesville, FL.
- 2:45 p.m. **Break**

Session V
General Session
Magnolia Ballroom

Moderator: David F. Spencer
USDA-ARS University of California Davis
Davis, CA

- 3:05 p.m. Selective Control of Eurasian Watermilfoil Using Triclopyr. **K. D. Getsinger**, E. G. Turner and J. D. Madsen, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- 3:20 p.m. Response of Native Vegetation to an Application of Triclopyr. **J. D. Madsen** and K. D. Getsinger, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- 3:35 p.m. Use of Triclopyr Herbicide to Re-vegetate Eurasian Milfoil Infested Portions of the Columbia River System. **Terence M. McNabb**, Resource Management, Inc., Turnwater, WA.
- 3:50 p.m. Monitoring Herbicide Impact on Non-Target Plants Using Peridase Analysis. **Susan L. Sprecher**, Anne B. Stewart and Jane M. Brazil, ASci Corporation, Vicksburg, MS.
- 4:05 p.m. Preemption as a Factor in Competition Between *Vallisneria americana* and *Hydrilla verticillata*. **R. Michael Smart**, U.S. Army Engineer Waterways Experiment Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 4:20 p.m. The Effects of Fluridone and 2,4-D on Southern Wild Rice. **Jan D. Miller** and W. T. Haller, Center for Aquatic Plants, University of Florida, Gainesville, FL.
STUDENT PAPER
- 4:35 p.m. Effects of Treated Kraft Liquor on *Hydrilla verticillata* (Royle). Andrew L. Hassell, Barbara B. Martin, **Dean F. Martin**, and Jess M. Van Dyke, Institute for Environmental Studies, Dept. of Chemistry, University of South Florida, Tampa, FL.

WEDNESDAY, JULY 14, 1993

Session VI
General Session
Magnolia Ballroom

Moderator: Ken Manuel
Duke Power Company
Huntersville, NC

TUESDAY EVENING PROGRAM

July 13, 1993
6:30-10:30 p.m.

Evening at Boone Hall Plantation and Gardens

Plantation Tour
Social Hour
Carolina Low Country Boil
Awards Presentation
Music and Fun

Transportation provided from the hotel.

Meet in *Main Lobby* (Market St. Entrance) at 5:45 p.m.
for bus transportation.

Dress casual and cool

- 8:30 a.m. Impact of Hydrilla Life Cycle on the Mode-of-Action of Fluridone. **D. G. Shilling**, G. E. MacDonald, and W. T. Haller, University of Florida and Center for Aquatic Plants, Gainesville, FL.
- 8:45 a.m. A Physiological Process Model for Aquatic Plant Growth. **M. B. Coughenour** and De-Xing Chen, Colorado State University, Fort Collins, CO.
- 9:00 a.m. Washington Lakes Benefit from Caring Lake Residents. **Kathey Adams**, Long Lake Management District, Olympia, WA.
- 9:15 a.m. Distribution and Abundance of Eurasian Milfoil, *Myriophyllum spicatum*, in the Peoples Republic of China. **Joe K. Balciunas**, USDA Australian Biological Control Laboratory, James Cook University, Townsville, Australia; and Ping-Ping Chen, Sino-American Biological Control Laboratory, Chinese Academy of Agricultural Sciences, Beijing, Peoples Republic of China.
- 9:30 a.m. Aquatic Weed Problems and Programs in Mexico. **Randall K. Stocker**, Imperial Valley Irrigation District, Imperial, CA.
- 9:45 a.m. Regulatory Status of Aquathol Aquatic Herbicide. **Gary R. Sandberg**, AgChem Division, Elf Atochem North America Inc., Philadelphia, PA.
- 10:00 a.m. **BREAK**

Session VII
General Session
Magnolia Ballroom

Moderator: Leon Bates
Tennessee Valley Authority
Muscle Shoals, AL

10:15 a.m.

Bridge Over Troubled Water. **Gary D. Nichols**, St. Johns Water Management District, Palatka, FL.

10:30 a.m.

Sediment Factors Influencing the Growth of *Vallisneria*. **Dwilette G. McFarland** and **John W. Barko**, Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

10:45 a.m.

Seasonal Dynamics and Ecology of *Spirogyra*, *Oedogonium* and *Pithophora*. **Carole A. Lembi**, Holly L. Adrian, James M. Graham, Linda E. Graham, and David F. Spencer, Purdue University, West Lafayette, IN, University of Wisconsin, and University of California Davis, Davis, CA.

11:00 a.m.

Comparative Regrowth Studies of Two Exotic Macrophytes Under Experimental Low Light Levels. **Robert M. Stewart**, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

11:15 a.m.

Estimating the Abundance of Underground Propagules of Aquatic Plants. **David F. Spencer**, Greg G. Ksander, and Linda C. Whitehand, USDA-ARS Aquatic Weed Laboratory, Davis, CA.

11:30 a.m.

GIS/GPS Support to Aquatic Plant Chemical Control Operations. **Rose Kress**, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS; **Joe Kight**, **Don Morgan**, U.S. Army Engineer District Mobile, Lake Seminole Resource Management Office, Chattahoochee, FL; **Scott Bourne**, ARC Professional Services, Vicksburg, MS.

11:45 a.m.

Feasibility of Eradicating Catclaw Mimosa (*Mimosa pigra L.*) in Florida. **David Sutton** and **Ken Langeland**, University of Florida, IFAS, Research and Education Center, Fort Lauderdale, FL; and Center for Aquatic Plants, Gainesville, FL.

12:00 p.m.

BUSINESS MEETING AND INSTALLATION OF 1993-94 OFFICERS, President Hudson Presiding

12:20 p.m.

Adjournment

12:45 p.m.

APMS Board of Directors Lunch/Meeting
Colleton Room

1:00 p.m.

SCAPMS Board of Directors Meeting
Edmund Room

ALTERNATE PAPERS
Alphabetically by Title

- 1 Aquatic Plant Management in Puerto Rico. **William C. Zatta**, U.S. Army Engineer District, Jacksonville, FL.
- 2 The Effects of 2,4-D on the Movements and Spawning Behavior of Large Mouth Bass. **Marvin Boyer**, University of Florida, Gainesville, FL.
- 3 Influence of Fluridone in Irrigation Water on Azaleas. **S. H. Kay**, **D. W. Monks**, and **R. B. Leidy**, North Carolina State University, Raleigh, NC.
- 4 Progress in Locating Insects in Australia for Controlling *Melaleuca quinquenervia*, Florida's Worst Wetland Weed. **Joe K. Balciunas**, **Damien Burrows** and **Mathew Purcell**, USDA Australian Biological Control Laboratory, James Cook University, Townsville, Australia.
- 5 Removal of Exotic/Nuisance Aquatic Species at Orlando International Airport. **Thomas J. McNabb**, Aquatics Unlimited, Martinez, CA.

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1963	Tampa, Florida	William Dryden
1964	Tallahassee, Florida	Herbert J. Friedman
1965	Palm Beach, Florida	John W. Woods
1966	Lakeland, Florida	Zeb Grant
1967	Fort Meyers, Florida	James D. Gorman
1968	Winter Park, Florida	Robert D. Blackburn
1969	West Palm Beach, Florida	Frank L. Wilson
1970	Huntsville, Alabama	Paul R. Cohee
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1972	Miami Springs, Florida	Robert J. Gates
1973	New Orleans, Louisiana	Brandt G. Watson
1974	Winter Park, Florida	Alva P. Burkhalter
1975	San Antonio, Texas	Lou V. Guerra
1976	Fort Lauderdale, Florida	Ray A. Spirnock
1977	Minneapolis, Minnesota	Robert W. Geiger
1978	Jacksonville, Florida	Donald V. Lee
1979	Chattanooga, Tennessee	Julian J. Raynes
1980	Sarasota, Florida	William N. Rushing
1981	Jackson, Mississippi	Nelson Verden
1982	Las Vegas, Nevada	Roy L. Clark
1983	Lake Buena Vista, Florida	Emory E. McKeithen
1984	Richmond, Virginia	A. Leon Bates
1985	Vancouver, British Columbia	Max C. McCowen
1986	Sarasota, Florida	Lars W.J. Anderson
1987	Savannah, Georgia	Dean F. Martin
1988	New Orleans, Louisiana	Richard D. Comes
1989	Scottsdale, Arizona	Richard Couch
1990	Mobile, Alabama	David L. Sutton
1991	Dearborn, Michigan	Joseph C. Joyce
1992	Daytona Beach, Florida	Randall K. Stocker

1994 APMS MEETING - SAN ANTONIO, TEXAS

July, 10-14 13

**PAST LOCATIONS AND PRESIDENTS OF THE
SOUTH CAROLINA AQUATIC PLANT
MANAGEMENT SOCIETY**

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1979	Moncks Corner	John Inabinet
1980	Moncks Corner	Howard Roach
1981	Moncks Corner	Ron Dillon
1982	Columbia	Jim Preacher
1983	Clemson	Mac Watson
1984	Charleston	Danny Johnson
1985	Moncks Corner	Lamar Robinette
1986	Columbia	Harold Ornes
1987	Clemson	Steve de Kozlowski
1988	Moncks Corner	Tim Drake
1989	Charleston	Cindy Aulbach-Smith
1990	Seneca	Ken Manuel
1991	Moncks Corner	Howard Roach
1992	Sullivans Island	Phil Fields

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