

FUTURE MEETING SITES

Program

NINETEENTH ANNUAL MEETING

THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

1980 - Sarasota Hyatt House
Sarasota, Florida U.S.A.
July 13-16

1981 - Coliseum Ramada Inn
Jackson, Mississippi U.S.A.
July 12-15

1982 - Caesars Palace
Las Vegas, Nevada U.S.A.
July 18-21

1983 - Lake Buena Vista,
Florida U.S.A.
July 17-20

1984 - Richmond Hyatt House
Richmond, Virginia U.S.A.
July 15-18

1985 - Montreal, Quebec
Canada
July 14-17



CHATTANOOGA CHOO-CHOO HILTON

Chattanooga, Tennessee

July 15-18, 1979

Sunday through Wednesday

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Texas Parks & Wildlife Department
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THE PROGRAM



NINETEENTH ANNUAL MEETING of THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

July 15-18, 1979

Chattanooga Choo-Choo Hilton
Chattanooga, Tennessee, U.S.A.

SUNDAY, JULY 15, 1979

Board of Directors

1:30 P.M. Meeting of the Board - Crystal Room

3:00 P.M. - 6:00 P.M. Registration - Main Lobby

6:30 P.M. - 7:30 P.M. Reception - Veranda, Convention
and Concert Hall. Registration
Required for Admission

Commercial Exhibits will be set up during the entire
meeting in the Veranda, Convention and Concert
Hall.

POSTER SESSION

9:00 A.M. Monday, July 16-12 Noon, Wednesday,
July 18, Room A-West Side
Convention and Concert Hall

NOTE: Posters and other graphic displays for the following
presentations will be set up in the designated area all
day Monday, July 16, and until Noon on Tuesday, July
17, and Wednesday, July 18. The room must be cleared
Tuesday afternoon for banquet preparation. These
displays may be observed at any time during that
period. The authors will be assigned two 30-minute
periods, shown below, when they will be stationed at
their displays for descriptions of their work and general
discussions.

Mon., July 16, 1:30 P.M. - 2:00 P.M.

Wed., July 18, 10:30 A.M. - 11:00 A.M.

"Research on *Myriophyllum* in British Columbia."
Peter Newroth* and B. Kangasniemi, Environmental
Studies Division, Water Investigations Branch, B. C.
Ministry of Environment, Victoria, B.C., Canada

Mon., July 16, 2:00 P.M. - 2:30 P.M.
 Wed., July 18, 10:00 A.M. - 10:30 A.M.
"Development of Control Methods for the Melaleuca Tree, *Melaleuca quinquenervia* (Cav.) Blake." Anthony M. B. Rekas, Environmental Laboratory, USAE Waterways Experiment Station, Vicksburg, Mississippi

Mon., July 16, 3:15 P.M. - 3:45 P.M.
 Wed., July 18, 9:30 A.M. - 10:00 A.M.
"Infectivity and Efficacy of a *Cercospora rodmanii* Conway Formulation Developed for Use in Controlling Waterhyacinth (*Eichhornia crassipes* (Mart.) Solms) on an Operational Scale." E. A. Theriot* and Dana R. Sanders, Environmental Laboratory, USAE Waterways Experiment Station, Vicksburg, Mississippi

Mon., July 16, 3:45 P.M. - 4:15 P.M.
 Wed., July 18, 9:00 A.M. - 9:30 A.M.
"Chemical Control of *Mimosa pigra* L. in Irrigation Systems Using Krenite." Miss Saowanee Thamasara* and Montri Simagrai, Weed Control Laboratory Branch, Royal Irrigation Department, Pakret, Non-thaburi Bangkok, Thailand

MONDAY, JULY 16, 1979

8:00 A.M. - 4:00 P.M. Registration
 Veranda, Convention and Concert Hall

GENERAL SESSION

9:00 A.M. - 12:00 Noon

Room B-East Side, Convention and Concert Hall
 Presiding: Julian J. Raynes, President

- 9:00 A.M. Call to Order
- 9:05 A.M. Invocation: Leslie Bitting, Member, Board of Directors, APMS, Inc. and Past President, Florida APMS
- 9:10 A.M. Welcome to the City of Chattanooga, Tennessee: Charles A. Rose, Mayor
- 9:20 A.M. Welcome to Hamilton County, Tennessee: Dalton Roberts, County Executive
- 9:30 A.M. Presidential Address: Julian J. Raynes, President

Invitational Addresses

- 9:45 A.M. "The Aquatic Weed Research Center, University of Florida, Gainesville—Objectives and Approach." Dr. Arnett C. Mace, Jr., Director, Aquatic Weed Research Center, University of Florida, Gainesville, Florida
- 10:00 A.M. "Water Resources of the Tennessee Valley." Dr. Thomas Ripley, Director, Office of Natural Resources, Tennessee Valley Authority, Muscle Shoals, Alabama

- 10:15 A.M. Break
- 10:30 A.M. "Transfer of Technology for Aquatic Plant Management." J. L. Decell, Manager, Aquatic Plant Control Research Program, Environmental Laboratory, USAE Waterways Experiment Station, Vicksburg, Mississippi
- 10:45 A.M. "Consulting in the Aquatic Environment." Harold F. Brown, Florida Plant Growth Regulators, Inc., Port St. Lucie, Florida (President, Florida APMS)
- 11:00 A.M. "Commercial Application - Fact or Fiction." Robert D. Blackburn* and Candy Joyce Blackburn, Joyce Environmental Consultants, Inc., Casselberry, Florida
- 11:15 A.M. "Aquatic Weed Research in Britain and Activities of the Aquatic Weed Research Group of the European Weed Research Council." T. O. Robson, Weed Research Organization, Oxford, United Kingdom
- 11:30 A.M. "Comments on European Weed Research Council, Aquatic Symposium, held in Amsterdam, The Netherlands, September 1978." John Gallagher, Union Carbide Agricultural Products Company, Inc., Ambler, Pennsylvania
- 11:45 A.M. Movie: "Hydrilla-A Menace on the Move." A. Leon Bates,* W. Michael Dennis, and Terry L. Goldsby, Tennessee Valley Authority, Muscle Shoals, Alabama
- 12:00 Noon Lunch

FIFTH ANNUAL STUDENT CONTEST

1:30-5:00 P.M.

Room B-East Side
 Convention & Concert Hall
 Presiding: Dr. Dean F. Martin,
 University of South Florida, Tampa, Florida

- 1:30 P.M. Introduction
- 1:40 P.M. "Atrazine Toxicity to Submerged Macrophytes of Chesapeake Bay." D. Raymond Forney* and Donald E. Davis, Department of Botany and Microbiology, Auburn University, Auburn, Alabama
- 1:50 P.M. "Growth-Inhibiting Factors of Waterhyacinth in a Clay-Settling Pond, Polk County, Florida." Anne Maybury* and D. F. Martin, Department of Geology and Department of Chemistry, University of South Florida, Tampa, Florida

- 2:00 P.M. "Biomass Production and Photosynthetic Enzymes in Hydrilla and Other Submersed Aquatic Macrophytes." M. E. Salvucci* and G. Bowes, Department of Botany, University of Florida, Gainesville, Florida
- 2:10 P.M. "System-Wide Effects of an Incomplete Refill Following the Overwinter Drawdown of a Small Ohio Lake." Mark E. Gorman, Department of Biological Sciences, Kent State University, Kent, Ohio
- 2:20 P.M. "Factors Effecting the Control of *Hydrilla verticillata* (Royle) with Fenac." William E. Spencer, Jr.,* and William T. Haller, Department of Agronomy, University of Florida, Gainesville, Florida
- 2:30 P.M. "Development of Adventitious Buds from Hydrilla Fragments." K. A. Langeland* and D. L. Sutton, Agricultural Research Center, University of Florida, Ft. Lauderdale, Florida
- 2:40 P.M. "Effects of Lead, Cadmium, and Copper on the Growth of Waterhyacinths." Stratford H. Kay, Agronomy Department, University of Florida, Gainesville, Florida
- 2:50 P.M. Discussion
- 3:00 P.M. Break

RESEARCH SESSION

3:15 P.M. - 5:00 P.M.

Room B-East Side

Convention and Concert Hall

Presiding: Patricia Bytnar Perfetti

Department of Biology

University of Tennessee, Chattanooga

- 3:15 P.M. "Iron and Magnanese Interaction of Waterhyacinth (*Eichhornia crassipes*). " Thomas N. Cooley* and Dean F. Martin, Department of Biology and Department of Chemistry, University of South Florida, Tampa, Florida
- 3:30 P.M. "Investigation of the Life Cycle of *Egeria densa* Planch." K. D. Getsinger,* C. R. Dillon, and H. B. Roach, Clemson University, Clemson, SC, and Environmental Control Division of the South Carolina Public Service Authority, Moncks Corner, South Carolina
- 3:45 P.M. "The Use of Gibberellic Acid to Enhance a Senescent Aquatic Habitat." R. S. Hestand* and C. C. Carter, Florida Game and Fresh Water Fish Commission, Eustis, and University of Florida, Gainesville, Florida

- 4:00 P.M. "Developmental Pattern and the Geometry of Clonal Growth in the Waterhyacinth, *Eichhornia crassipes* (Mart.) Solms." M. A. Watson, Department of Biology, University of Utah, Salt Lake City, Utah
- 4:15 P.M. "A Classification of Growth Stages for Waterhyacinth." E. E. Addor, Environmental Laboratory, USAE Waterways Experiment Station, Vicksburg, Mississippi
- 4:30 P.M. "*Myriophyllum spicatum* L. in Currituck Sound, North Carolina." Graham J. Davis* and Donald F. Carey, Jr., Department of Biology, East Carolina University, Greenville, North Carolina
- 4:45 P.M. "The Effects of Freezing and Drying on the Survival Rate of Eurasian Watermilfoil." Patricia Bytnar Perfetti, Department of Biology, University of Tennessee, Chattanooga, Tennessee
- 5:00 P.M. Discussion and Adjourn for the Day

OPERATIONS SESSION

1:30 P.M. - 5:00 P.M.

Town Hall Theater

Presiding: Gordon Baker

Southwest Florida Water Management District

West Palm Beach, Florida

- 1:30 P.M. "Aquatic Plant Control Program of the South Florida Water Management District." Gordon Baker, South Florida Water Management District, West Palm Beach, Florida
- 1:45 P.M. "Water Quality Influence on the Effectiveness of 2, 4-D DMA and Endolthols on Aquatic Weed Control." Thomas Camp, Aquatic Management Company, Glendale, Arizona, and Ecolotecnica S.A. of Mexico City
- 2:00 P.M. "A Comparison of the Effectiveness of Several Endothol Formulations and Diquat for Hydrilla Control." R. S. Hestand* and L. L. Trent, Florida Game and Fresh Water Fish Commission, Eustis, Florida
- 2:15 P.M. "Aerial Application by Fixed-Wing Aircraft for Hydrilla Control." L. L. Trent* and R. S. Hestand, Florida Game and Fresh Water Fish Commission, Eustis, Florida
- 2:30 P.M. "The Use of Granular Fenac for Hydrilla Control in Tigartail Lake, Florida." Ross Hooks, Water Management Division, Broward County, Ft. Lauderdale, Florida

- 2:45 P.M. "Complexed Iron in Combination with Diquat and Aquathol K for Hydrilla Control." David Garvis, Dixie Agricultural Chemical Company, Eustis, Florida
- 3:00 P.M. Break
- 3:15 P.M. "Monitoring the Effects of 2,4-D Applied to Eurasian Watermilfoil on Selected Non-Target Organisms in Kerr Reservoir - 1977-1978." Richard Couch,* Edward Nelson, and Marlin Mohrman, Couch Consultants, Inc., and Natural Science Department, Oral Roberts University, Tulsa, Oklahoma
- 3:30 P.M. "Chemical Water Quality Monitoring in Conjunction with the 2,4-D Treatment of an Oklahoma Reservoir." William Kenneth Morris, Oklahoma Water Resources Board, Oklahoma City, Oklahoma
- 3:45 P.M. "Aquatic Plant Control Program for Robert S. Kerr - 1978" James R. Skaggs, Jr., U.S. Army Engineer District, Tulsa, Oklahoma
- 4:00 P.M. "Progress in Aquatic Weed Control in the Western States." Peter Frank, USDA-SEA, University of California, Davis, California
- 4:15 P.M. "The Effects of Low Temperature on a Hyacinth Control Program" R. S. Hestand* and L. L. Trent, Florida Game and Fresh Water Fish Commission, Eustis, Florida
- 4:30 P.M. Movie: "Managing Water Resources." Bill Moore, Pennwalt Corporation, Winter Garden, Florida
- 5:00 P.M. Discussion and Adjourn for the Day

TUESDAY, JULY 17, 1979

INTERNATIONAL SESSION

8:30 A.M. - 10:30 A.M.

Room B-East Side

Convention and Concert Hall

Presiding: Dr. Ron Stanley

U.S. Environmental Protection Agency
Washington, D.C.

- 8:30 A.M. "Diquat and Sodium Alginate for Weed Control in Rivers." P. R. F. Barrett, Weed Research Organization, Yarnton, Oxford, United Kingdom
- 8:45 A.M. "Evaluation of a Soil-Asphalt Irrigation Ditch Lining." J. R. Allan* and T. G. Sommerfeldt, Agriculture Canada Research Station, Lethbridge, Alberta, Canada
- 9:00 A.M. "On the Occurrence and Control of Aquatic Weeds in the Sudan." M. E. Beshire, University of Gezira, Wad Mendani

- 9:15 A.M. "Simazine Residues in Irrigation Water After Soil-Residual Treatment of *Elodea canadensis*." John A. Adeney, CSIRO, Division of Irrigation Research, Griffith, Australia
- 9:30 A.M. "Controlled Environment Studies on the Growth of *Myriophyllum spicatum*." J. R. Allan,* J. B. Bole, and J. A. Braglin-Marsh, Agriculture Canada Research Station, Lethbridge, Alberta, Canada
- 9:45 A.M. "Control of *Salvinia* in Kerala (South India)." John J. Guadet, Department of Botany, University of Nairobi, Kenya
- 10:00 A.M. "Control of Waterhyacinth in Agricultural Irrigation Canals in Mexico." Thomas Camp, Aquatic Management Company, Glendale, Arizona, and Ecolotecnia S. A. of Mexico City
- 10:15 A.M. "Aquatic Plant Management Operations Activities in British Columbia." Peter Newroth and Staff, B. C. Ministry of the Environment, Victoria, B.C., Canada
- 10:30 A.M. "Design Criteria for Storm-Water Retention Lakes." J. R. Allan, Agriculture Canada Research Station, Lethbridge, Alberta, Canada
- 10:45 A.M. Break

ANNUAL BUSINESS MEETING

11:00 A.M. - 12:00 Noon

Presiding: Julian J. Raynes, President

- 12:05 P.M. Lunch

GENERAL SESSION

1:30 P.M. - 5:00 P.M.

Room B-East Side

Convention and Concert Hall

Presiding: Nick Sassic

Orange County Pollution Control Department
Orlando, Florida

- 1:30 P.M. "Determining Pesticide Exposure." Sarah B. Bausch, Applied Biochemists, Inc., Mequon, Wisconsin
- 1:45 P.M. "Evaluation of Promising New Herbicides for Aquatic Weed Control." Kerry K. Steward, USDA-SEA, Ft. Lauderdale, Florida
- 2:00 P.M. "The Effects of Duiroon on Aquatic Organisms." R. S. Hestand,* L. L. Trent, and B. Z. Thompson, Florida Game and Fresh Water Fish Commission, Eustis, Florida

- 2:15 P.M. "Inverts of EPA Exempt Oils and Emulsifiers with Registered Aquatic Herbicides." A. O. Jones,* K. K. Steward, and C. J. May, USDA-SEA, Ft. Lauderdale, Florida
- 2:30 P.M. "Tolerance of Two Species of Grass to Copper-Treated Irrigation Water." Donald N. Riemer* and Harry L. Motto, Department of Soils and Crops, Rutgers University, New Brunswick, New Jersey
- 2:45 P.M. "The Persistence and Residues of Copper Herbicides in Small Ponds." V. V. Vandiver, Jr.,* D. L. Sutton, and K. K. Steward, University of Florida, Gainesville, and USDA-SEA, Ft. Lauderdale, Florida
- 3:00 P.M. Break
- 3:15 P.M. "Controlled Release of Aquatic Herbicides: State-of-the-Art." Frank Harris, Wright State University, Dayton, Ohio
- 3:30 P.M. "Effects of Low Concentrations of Terbutryn on *Myriophyllum* and *Cabomba*." Donald N. Riemer, Department of Soils and Crops, Rutgers University, New Brunswick, New Jersey
- 3:45 P.M. "Delivery Rate Versus Release Rate in Controlled Release Aquatic Herbicides." G. A. Janes, Creative Biology Laboratory, Inc., Barberton, Ohio
- 4:00 P.M. "Evaluation of Experimental Herbicides for Control of Aquatic Weeds." Robert Barry* and J. A. Foret, Department of Plant Industry, University of Southwestern Louisiana, Lafayette, Louisiana
- 4:15 P.M. "Distribution of Eurasian Watermilfoil in the United States." Richard Couch* and Brian L. Welsh, Natural Science Department, Oral Roberts University, Tulsa, Oklahoma
- 4:30 P.M. "Observations of the Use of Aquascreen for Localized Control of Eurasian Watermilfoil." Michael A. Perkins,* Harry L. Boston, and E. Flinn Curren, Department of Civil Engineering, University of Washington, Seattle, Washington
- 4:45 P.M. "Electronic Evaluation of the Efficacy of Various Herbicides on Hydrilla." L. V. Guerra, Noxious Vegetation Control Program, Texas Parks and Wildlife Department, San Antonio, Texas
- 5:00 P.M. Discussion and Adjourn for the Day



TUESDAY EVENING

July 17, 1979

6:30 P.M.

Reception

Veranda, Convention and Concert Hall

7:45 P.M.

Annual Banquet

Room A, West Side
Convention and Concert Hall

Speaker

Gayle Gupton

Nashville, Tennessee

"The Andy Griffith of Banking With
Humor That Smacks of Will Rogers"



WEDNESDAY, JULY 18, 1979

GENERAL SESSION

8:30 A.M. - 10:45 A.M.

Room B - East Side

Convention and Concert Hall

Presiding: Max McCowan

Lilly Research Laboratory

Eli Lilly Company

Greenfield, Indiana

- 8:30 A.M. "Biological Control of Hydrilla with Grass Carp—with Environmental Effects." J. A. Osborne,* N. M. Sassic, D. Schmitz, and S. Scott, University of Central Florida, and Orange County Pollution Control, Orlando, Florida
- 8:45 A.M. "Regrowth Control of Hydrilla by the Grass Carp." David L. Sutton* and V. V. Vandiver, Jr., University of Florida, Ft. Lauderdale, Florida
- 9:00 A.M. "Preliminary Experiments on Manipulative Biocontrol of Alligator Weed with *Vogelia malloi* Pastrana." P. C. Quimby, Jr.* and D. G. McMinin, Southern Weed Science Laboratory, Stoneville, Mississippi
- 9:15 A.M. "Field Observations on Selected Organisms for Biocontrol of Waterhyacinth in Louisiana." E. E. Addor, Environmental Laboratory, USAE Waterways Experiment Station, Vicksburg, Mississippi
- 9:30 A.M. "Pondweed Control Using Water-Stress and Foliar Herbicides." Lars W. J. Anderson, USAD, SEA-AR, Denver, Colorado
- 9:45 A.M. "Solar-Drying Waterhyacinth." Larry O. Bagnall, Agricultural Engineering Department, University of Florida, Gainesville, Florida
- 10:00 A.M. "Experimental Hyacinth Wastewater Treatment Systems in Texas." Ray Dinges, Texas Department of Health, Austin, Texas
- 10:15 A.M. "Bulk Mechanical Properties of Hydrilla." Larry O. Bagnall, Agricultural Engineering Department, University of Florida, Gainesville, Florida

FINAL BUSINESS MEETING

11:00 A.M. - 11:30 A.M.

Room B - East Side

Convention and Concert Hall

Presiding: Julian J. Raynes, President

11:30 A.M. Adjourn Nineteenth Annual Meeting

BOARD OF DIRECTORS

1:30 P.M. Meeting of the Board - Crystal Room

Note: The following papers were received too late to be incorporated in the regular program. They will be scheduled for presentation sometime during the meeting as time permits. Listen for announcements.

"Control of Aquatic Weeds by Banvel 720 in Florida." Richard Wilson, Velsicol Chemical Company, Gainesville, Florida.

"Distribution of Harvestable Gamefish Among Different Vegetative and Non-Vegetative Habitats in a Hydrilla Infested Florida Lake." Douglas F. DuRant,* Jerome V. Shireman, Douglas E. Colle, and William T. Haller, Aquatic Weed Research Center, University of Florida, Gainesville, Florida.

"The Utilization of Water Hyacinths for the Treatment of Wastewater and for Energy Production." J. Villamil,* R. G. Clements, A. McBlock, Engs. P. Weil, A. Garcia, and W. Lao, Center of Energy and Environmental Research, University of Puerto Rico, San Juan, Puerto Rico.

"Results of Using Multiple Inversion and Clean-Flo Lake Cleanser in Reducing Phosphate in Lakes." Robert L. Laing, Clean-Flo Laboratories, Inc., Hopkins, Minnesota.

"Application of OECD Eutrophication Models for Management of Excessive Fertility in Lakes and Impoundments." G. Fred Lee* and R. Anne Jones, Engineering Research Center, Colorado State University, Fort Collins, Colorado.

"Three Federal Law's Possible Effects on Aquatic Weed Control Programs." Roy P. Clark, Environmental Protection Agency, Atlanta, Georgia.

POST-MEETING FIELD TRIP

July 19-20, 1979

Conducted by: Mr. Leon Bates and Staff, TVA

NOTE 1: Persons planning to participate in the field trip should plan to hold hotel rooms through Wednesday night, July 18.

Thursday, July 19

8:30 A.M. Depart Chattanooga Choo-Choo for: Raccoon Mountain Pump Storage Generation Facility
Nickajack Reservoir
Bellefonte Nuclear Power Plant
Guntersville Lake

6:00 P.M. Arrive Guntersville Lodge for dinner and overnight accommodations.

Friday, July 20

8:30 A.M. Depart Guntersville Lodge for: Westward trip to Huntsville and Muscle Shoals via Bald Cypress Plantation and TVA Aquaculture Project.

NOTE 2: Person making flight connections advised that group will arrive in Huntsville, Alabama, area between 1:00 P.M. -2:00 P.M., and Muscle Shoals, Alabama, after 4:00 p.m. on Friday.

PROPOSED BYLAW CHANGES

The following amendments to the APMS Bylaws have been suggested and approved by the Board of Directors. They are presented here for each members' consideration. These items will be voted on by the Society at the Nineteenth Annual Meeting, Chattanooga, Tennessee, July 15-18, 1979.

1. **AMENDMENT:** Under Bylaws Article III, Section B, change the second sentence to read:

"He shall maintain and exercise general supervision over the affairs of the Society, ~~subject to the authority of the Board of Directors,~~ may sign checks in payment of obligations of this Society during the absence or incapacitation of the Treasurer, and shall discharge such other duties as usually pertain to the office of the President."

2. **AMENDMENT:** Redefine the duties of the nominating committee under Article XII (5) to read as follows:

"The nominating committee shall consist of not less than five (5) members; ~~preferable not less than one~~ be chaired by the immediate past president, ~~who~~ and shall recommend to the Society candidates for election to the several offices. Terms of membership in the nominating committee shall be for no more than two successive years and a two-year break shall occur between periods of service as a member."

HONORARY MEMBERS

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Fort Myers, Florida

DR. F. L. TIMMONS

Tucson, Arizona

MR. WILLIAM E. WUNDERLICH

New Orleans, Louisiana

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MR. GEORGE SUCIU

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ZOECON CORPORATION

Orlando, Florida

LADIES PROGRAM

EXHIBITORS

Applied Biochemists, Inc.

Aquashade, Inc.

Chevron Chemical Company

Nalco Chemical Company

**Union Carbide Agricultural
Products Company, Inc.**

Vector Supply, Inc.

SUNDAY, JULY 15, 1979

6:30 P.M. - 7:30 P.M. - Reception
Veranda, Convention and Concert Hall

MONDAY, JULY 16, 1979

10:00 A.M. - To be announced
Rail Car "American"

12:00 Noon - Luncheon - Crystal Room
Afternoon: Shopping Spree

TUESDAY, JULY 17, 1979

10:00 A.M. - 2:00 P.M.
Bus tour of Local Sites of Interest
(Stop for Lunch)