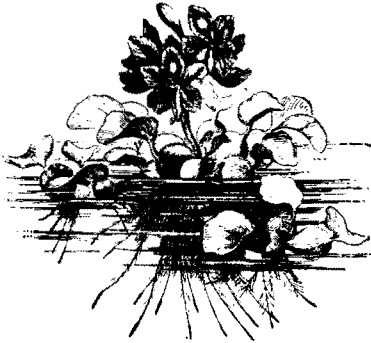


For

PROGRAM

THIRTY-FOURTH
ANNUAL MEETING

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



AND

SIXTH ANNUAL MEETING

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



HILTON PALACIO DEL RIO
SAN ANTONIO, TEXAS
JULY 10-13, 1994
Sunday through Wednesday

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GROVELAND, FLORIDA 34736

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WATERWAYS EXPERIMENT STATION
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CONTROL, INCORPORATED
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FRED L. NIBLING, JR.
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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 are 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.

APMS Affiliate Chapters

Florida Aquatic Plant Management Society
MidSouth Aquatic Plant Management Society
Midwest Aquatic Plant Management Society
South Carolina Aquatic Plant Management Society
Texas Aquatic Plant Management Society
Western Aquatic Plant Management Society

THE PROGRAM

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

AND

SIXTH ANNUAL MEETING OF TEXAS AQUATIC PLANT MANAGEMENT SOCIETY, INC.

JULY 10-13, 1994

HILTON PALACIO DEL RIO
SAN ANTONIO, TEXAS

SUNDAY, JULY 10, 1994

- 8:00 AM **APMS Board of Directors Breakfast**
La Vista
- 8:30 AM **APMS Board of Directors Meeting**
La Vista
- 11:00 AM-
4:00 PM **Aquatic Plant Field Trip to San Marcos**
(preregistration required)
- 3:00 PM-
6:00 PM **Registration**
Salon del Rey pre-function area
- 7:00 PM **President's Reception**
Salon del Rey South/Terrace Garden

MONDAY, JULY 11, 1994

Registration

8:00 AM-5:00 PM

Salon del Rey pre-function area

Exhibits on Display

9:00 AM-5:00 PM

Salon del Rey South

Spouses' Riverwalk Breakfast Boat Tour

9:30 AM-11:30 AM

Meet at Hotel's Riverwalk Entrance at 9:20 AM

Session I

Salon del Rey N&C

Presiding: Joe Zolczynski, President APMS
Alabama Dept. of Conservation and Natural Resources
Mobile, AL

- 8:30 AM Call to Order
- 8:35 AM Welcome: **L.V. Guerra**,
Lake Management Services
San Antonio, TX.
- 8:45 AM Announcements: **Steven de Kozlowski**,
Program Chairman
- 9:00 AM APMS Chapter Reports
Texas APMS Report and
Presidential Address: **Malcolm C. Johnson, III**
Florida APMS: **Wendy Andrew**
MidSouth APMS: **Fred G. Harders**
Midwest APMS: **Scott Jorgensen**
South Carolina APMS: **Lewis Decell**
Western APMS: **Fred Ryan**
- 9:45 AM Presidential Address: **Joe Zolczynski**
- 10:00 AM **Break**
- 10:15 AM **Then, Now, and Where We Must Be.**
John Gallagher, Aquatic Weed Scientist
(Retired), Raleigh, N.C.
- 10:45 AM. **Peru, Plants, and Presley.**
Dan Thayer and Mike Bodle, South Florida
Water Management District, Kissimmee, FL.

11:15 AM **APMS Business Meeting**

11:45 AM **Lunch**

Session II

Salon del Rey N&C

Aquatic Plant Management in Texas

Moderator: Kelly Duffie
Estes Inc.
Houston, TX

1:15 PM Extension Methods for Aquatic Vegetation Management in Texas. **Jim Davis**, Texas Agricultural Extension Service, Texas A&M University, College Station, TX.

1:30 PM An Overview of Commercial Aquatic Plant Management in Private Texas Impoundments. **Mac McCune**, Lake Management Services, Inc., Richmond, TX.

1:45 PM Aquatic Plant Control and Water Management. **John Wedig**, Lower Colorado River Authority, Austin, TX.

2:00 PM Aquatic Plant Control at Lake Cypress Springs. **Ed Withers**, Franklin County Water District, Mt. Vernon, TX.

2:15 PM Management of Shallow Impoundments in North Texas to Provide Emergent and Submergent Vegetation for Waterfowl. **Len G. Polasek**, Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX. **Student Paper**

2:30 PM Cold Temperature Limitations on the Growth of Waterhyacinths. **Chetta S. Owens**, ASCl Corporation, Lewisville, TX and **John D. Madsen**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

2:45 PM Carbon Source for Submerged Leaves of the Endangered *Zizania texana* (Texas Wildrice). **P. Power**, Southwest Texas State University San Marcos, TX and **R.D. Doyle**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

3:00 PM **Break**

3:15 PM An Overview of Grass Carp Use in Texas. **Earl W. Chilton II**, Texas Parks and Wildlife Department, Austin, TX.

3:30 PM An Investigation of Grass Carp Spawning in the Lower Trinity River, Texas. **Mark A. Webb**, Texas Parks and Wildlife Department, Bryan, TX.

3:45 PM The Biology of Free-ranging Grass Carp in East Texas River and Bay Systems. **Howard S. Elder** and **Brian R. Murphy**, Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX. **Student Paper**

4:00 PM Effectiveness of Low-Density Triploid Grass Carp Stockings. **Brian Blackwell** and **Brian R. Murphy**, Dept. of Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX. **Student Paper**

4:15 PM The Corps' Lewisville Aquatic Ecosystem Research Facility: New Opportunities for Aquatic Plant Research, Education, and Cooperation in the State of Texas. **R. Michael Smart**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

4:30 PM Angler Opinions on Fishery Management Tools: Who Wants What? **Robin K. Riechers**, Texas Parks and Wildlife Department, Austin, TX.

4:45 PM ~~Imazapyr~~ Imazapyr for Controlling Shoreline, Marginal and Ditchbank Vegetation. **Michael Standish** and **Alan "Bo" Burns**, American Cyanamid Company, Granger, TX.

5:00 PM **Texas APMS Business Meeting**

5:00 PM **Federal Aquatic Plant Management Working Group Meeting**
Hacienda II

7:00 PM **Reception - Sponsored by Elf Atochem**
La Volita on the Riverwalk one-half block south of hotel.

TUESDAY, JULY 12, 1994

Local Chapter Presidents Breakfast

6:45 - 8:00 AM

La Duquesa

Session III

Salon del Rey N&C

Ecology and Physiology

Moderator: Michael Smart

U.S. Army Engineer Waterways Station

Lewisville, TX

8:30 AM Potential Impact of Turtle Herbivory on Aquatic Macrophyte Communities. **Gary O. Dick**, ASCI Corporation, Lewisville, TX and **R. Michael Smart**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

8:45 AM Aquatic Plant Feeding Preferences by the Red-Eared Turtle. **Kimberly J. Mauermann**, Gary O. Dick, and **R. Michael Smart**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX. **Student Paper**

9:00 AM The Effects of Aquatic Plant Communities on Water Quality. **David R. Honnell**, ASCI Corporation, Lewisville, TX, and **John D. Madsen** and **R. Michael Smart**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

9:15 AM Foraging Efficiency and Growth of Juvenile Largemouth Bass Associated with Exotic and Native Aquatic Macrophytes. **R.M. Crouch**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX. **Student Paper**

9:30 AM Dynamics of *Eichhornia crassipes* and Related Aquatic Plants in Lake Chapala. **Eric Gutierrez** and **Felipe I. Arreguin**, Instituto Mexicano de Tecnologia del Agua, Jiutepec, Morelos, Mexico; **Manuel Guzman A.**, Instituto de Limnologia, Universidad de Guadalajara, Chapala, Mexico; and **Gualberto Limon M.**, Disenos Hidraulicos y Tecnologia Ambiental, Guadalajara, Mexico.

9:45 AM Environmental Influences on the Early Phenology of Monoecious Hydrilla in Lake Gaston. **Chad R. Coley** and **Stratford Kay**, Crop Science Dept., North Carolina State University, Raleigh, NC. **Student Paper**

10:00 AM **Break**

10:15 AM Long-Term Competition Between American Lotus and Eurasian Watermilfoil. **Joe R. Snow** and **R. Michael Smart**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX, and **Gary O. Dick**, ASCI Corporation, Lewisville, TX. **Student Paper**

10:30 AM Reproductive Biology of Southern Naiad in Southwest Florida. **John R. Cassani**, E. Lasso de la Vega, and **H.P. Allaire**, Lee County Hyacinth Control District, Fort Myers, FL.

10:45 AM Abscisic Acid Induced Changes in Gene Expression During Leaf Development in the Aquatic Macrophyte, *Potamogeton nodosus*. **Doreen Gee**, U.S. Dept. of Agriculture ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA. **Student Paper**

11:00 AM Some Chemical and Biochemical Characteristics of Six Lakes in Northwest Hillsborough County, Florida. **Andrew L. Hassell**, **Patricia M. Dooris**, and **Dean F. Martin**, Institute for Environmental Studies, Dept. of Chemistry, University of South Florida, Tampa, FL.

11:15 AM Monitoring Physiological Effects of Triclopyr and Fluridone on Non-Target Aquatic Plant Species. **Susan L. Sprecher**, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS and **Anne B. Stewart**, ASCI Corporation, Vicksburg, MS.

11:30 AM Effects of Flurprimidol on the Growth and Carbohydrate Status of Eurasian Watermilfoil. **Linda S. Nelson**, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

11:45 AM Random Amplified Polymorphic DNA (RAPD) Reactions Can Identify the Hydrilla Biotypes Found in the U.S. **Frederick J. Ryan**, U.S. Dept. of Agriculture ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA.

12:00 PM **Lunch**

Session IV

Salon de Rey N&C

Preventing Aquatic Weed Infestations

Moderator: Randy G. Westbrooks
USDA APHIS PPQ
Whiteville, NC.

- 1:15 PM ~~✗~~ Biological Pollution: A Historical Perspective of Aquatic Weeds in the United States. **Randy G. Westbrooks**, U.S. Dept. of Agriculture APHIS PPQ, Whiteville, NC.
- 1:45 PM Aquatic Weeds Intercepted by the U.S. Department of Agriculture. **Larry Fowler**, U.S. Dept. of Agriculture, APHIS PPQ, Brownsville, TX.
- 2:00 PM Water Spinach (*Ipomoea aquatica*); a crop in California, a weed in Florida. **Mario Rodriguez**, U.S. Dept. of Agriculture APHIS PPQ DEO, Hyattsville, MD.
- 2:15 PM Florida's Noxious Aquatic Plant Prevention Program. **William E. Caton**, Bureau of Aquatic Plant Management, Dept. of Environmental Protection, Tallahassee, FL.
- 2:30 PM Screening Criteria for Potentially Invasive Nonindigenous Plants: A Florida Model. **Kathy Burks** and **Greg Jubinsky**, Bureau of Aquatic Plant Management, Dept. of Environmental Protection, Tallahassee, FL. and **Michael Kane**, University of Florida, Gainesville, FL.
- 2:45 PM ~~✗~~ North Carolina Aquatic Weed Prevention Program. ~~David DeMont~~, Division of Water Resources, Dept. of Environment, Health and Natural Resources, Raleigh, NC.
- 3:00 PM ~~✗~~ California Hydrilla Eradication Program. ~~Ross O'Connell~~ Dept. of Food and Agriculture, Sacramento, CA.
LARS ANDERSON
- 3:15 PM **Break**

Session V

Salon del Rey N&C

Management Strategies and Techniques

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

- 3:30 PM ~~✗~~ Short-Term Summer Drawdown as a Potential Tool for Management of Monoecious Hydrilla. **Angela G. Poovey** and **Stratford H. Kay**, Crop Science Dept., North Carolina State University, Raleigh, NC. **Student Paper**
- 3:45 PM Analysis of Copper in Aqueous Systems. **Emily Deaver** and **John H. Rodgers, Jr.**, Dept. of Biology, University of Mississippi, University, MS. **Student Paper**
- 4:00 PM Restoring Lake Jackson, Osceola County, Florida, **Mikel W. Hulon**, Florida Game and Freshwater Fish Commission, Kissimmee, FL
- 4:15 PM ~~✗~~ GPS/GIS Mapping and Applications for Aquatic Plant Management. **Terry McNabb**, Resource Management, Inc., Tumwater, WA.
- 4:30 PM ~~✗~~ Habitat Manipulation Using Sonar in a Waterfowl Management Wetland. **David Tarver**, SePRO, Tallahassee, FL.
- 4:45 PM **Adjourn for Evening Program**
- 5:30 PM **Buses leave for Don Strange Ranch**

ALTERNATE PAPERS

Hydrilla Control Program in Mexico. **M.C. Ovidio Camarena Medrano**, Instituto Mexicano de Tecnologia del Agua, Jiutepec, Morelos, Mexico.

Still Sampling Hydrilla Tubers - Don't We Ever Learn? **Alison Fox** and **Bill Haller**, IFAS Center for Aquatic Plants, University of Florida, Gainesville, FL.

The Effects of Triploid Grass Carp and Sonar Treatments on Aquatic Plants in Lake Yale. **Rue S. Hestand, III**, **Boyd Z. Thompson**, and **Craig T. Mallison**, Florida Game and Freshwater Fish Commission, Eustis, FL.

Egeria densa: Problems and Potential Solutions for the Sacramento Delta. **Lars W.J. Anderson** and **Suzanne Fellows**, U.S. Dept. of Agriculture, ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA.

TUESDAY EVENING PROGRAM

July 12, 1994
6:00-10:00 PM

A Texas Ho-Down at the Don Strange Ranch

Refreshments and Appetizers

Fun Ranch Activities

Hay Rides
Roll-A-Roper
Horse Shoes
Caricature Artists
Live Band

Texas Style Feast

Awards Presentations

More Fun and Music

Transportation provided from the hotel.
Meet in front of the hotel on Alamo Street at
5:20 PM for bus transportation to the ranch.

Casual Attire



WEDNESDAY, JULY 13, 1994

Session VI

Salon del Rey N&C

Management Strategies and Techniques

Moderator: Kurt Getsinger

U.S. Army Engineer Waterway Station
Vicksburg, MS

- 8:30 AM Evaluation of Copper Herbicides for the Control of Waterhyacinth (*Eichhornia crassipes*). Ken Langeland, Brian Smith, and Neil Hill, IFAS Center for Aquatic Plants, University of Florida, Gainesville, FL.
- 8:45 AM Evaluation of *Eichhornia crassipes* Control Strategies in Lake Chapala. Gualberto Limon M., Jesus Rodriguez P., and Ruben Huerto, Disenos Hidraulicosy Tecnologia Ambiental, Guadalajara, Mexico; and Eric Gutierrez and Pilar Saldana, Instituto Mexicano de Tecnologia del Agua, Jiutepec, Morelos, Mexico.
- 9:00 AM Integrated Control of Waterhyacinth with Weevils and Paclobutrazol. Thai K. Van and Ted D. Center, U.S. Dept. of Agriculture, ARS, Fort Lauderdale, FL.
- 9:15 AM Removal of Triploid Grass Carp Using Fish Management Bait (FMB). Craig T. Mallison, Rue S. Hestand III, and Boyd Z. Thompson, Florida Game and Freshwater Fish Commission, Eustis, FL.
- 9:30 AM AMUR/STOCK Simulation for Examination of the Effects of Site Conditions on Plant Control by Grass Carp. R.M. Stewart and W.A. Boyd, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- 9:45 AM An Overview on Current Biological Control Research for the Management of Aquatic Plants. Alfred F. Cofrancesco and Michael J. Grodowitz, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS and Ted Center, USDA ARS, Aquatic Plant Control Research Center, Fort Lauderdale, FL.
- 10:00 AM Break

- 10:15 AM Use of Native Aquatic Plants for Control of Nuisance Species in Guntersville Reservoir, Alabama. **R.D. Doyle** and **R.M. Smart**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 10:30 AM Laboratory Evaluations of Fluridone for Control of Hydrilla and Eurasian Watermilfoil. **M.D. Netherland** and **K.D. Getsinger**, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- 10:45 AM Preliminary Evaluation of Water Exchange Characteristics at Lake Gaston and Implications for Herbicide Efficacy. **Stratford H. Kay**, Steve Hoyle, Chad Coley, and Angela Poovey, Crop Science Dept., North Carolina State University, Raleigh, NC.
- 11:00 AM Phenological Timing of Control Technologies for Eurasian Watermilfoil. **John D. Madsen**, U.S. Army Engineer Waterways Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.
- 11:15 AM Progress on Eradicating Catclaw Mimosa in Florida. **David L. Sutton**, University of Florida, IFAS, Fort Lauderdale Research and Education Center, and **Kenneth A. Langeland**, Center for Aquatic Plants, Gainesville, FL.
- 11:30 AM Effects of Sub Lethal Doses of Garlon 3A and Komeen on Canopy Structure of *Myriophyllum spicatum*. **Lars W.J. Anderson**, U.S. Dept. of Agriculture, ARS, Aquatic Weed Control Research Laboratory, University of California, Davis, CA.
- 11:45 AM **APMS Business Meeting and Installation of 1994 - 95 Officers**
President Joe Zolczynski, Presiding
- 12:00 PM **Adjournment of 34th Annual Meeting**
- 12:30 PM **APMS Board of Directors Luncheon and Meeting**
La Princesa

SPOUSES' PROGRAM

SUNDAY, JULY 10, 1994
7:00 PM

President's Reception
Salon del Rey South/Terrace Garden

MONDAY, JULY 11, 1994
9:30-10:45 AM

Riverwalk Breakfast and Boat Tour

Texas-style breakfast served with some historical highlights during a boat tour of San Antonio's famous Riverwalk.

Registered spouses should meet downstairs at 9:20 AM at the hotel's Riverwalk entrance.

TUESDAY, JULY 12, 1994
6:00-10:00 PM

A Texas Ho-Down at the Don Strange Ranch

Meet in front of hotel on Alamo Street at 5:20 PM for bus transportation. Casual attire.

ent

PAST MEETING SITES AND PRESIDENTS OF THE
AQUATIC PLANT MANAGEMENT SOCIETY

NOTES

1961	Boca Grande, Florida	Alfred S. Chipley
1962	Fort Lauderdale, Florida	T.W. Miller, Jr.
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
1971	Tampa, Florida	Stanley C. Abramson
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. Spirmock
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, B.C.	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
1993	Charleston, South Carolina	Clarke Hudson

PAST MEETING SITES AND PRESIDENTS OF THE
TEXAS AQUATIC PLANT MANAGEMENT SOCIETY

1989	Austin, Texas	Henry Neason
1990	Austin, Texas	Henry Neason
1991	Dallas, Texas	Joyce Johnson
1992	Victoria, Texas	Victor Palma
1993	Galveston, Texas	Rhandy Helton

NOTES

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Concord, California

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Mequon, Wisconsin

AQUASHADE, INC.
Eldred, New York

DOWELANCO (SePRO)
Indianapolis, Indiana

* ECOSCIENCE
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✓ GRIFFIN CORPORATION
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ICI AMERICAS INC.
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* * * *

FUTURE MEETING SITES

1995 - Seattle, Washington

1996 - Burlington, Vermont