

AQUATIC PLANT NEWS

A newsletter of The Aquatic Plant Management Society, Inc. No. 64 June 2000 Mike Stewart, Editor, CEEP.D-ES-P, 3909 Halls Perry Road, Vicksburg, MS 39180-6199

Program Highlights
APMS 40th Annual Meeting & International
Conference
San Diego, California

by
Jim Schmidt
2000 APMS Program Chair/President-Elect

The 40th Annual Meeting of the Aquatic Plant Management Society is shaping up to be an exciting and informative event that shouldn't be missed by anyone in the industry. Recognizing that invasive aquatic plants are a problem of global magnitude, your Board and the Program Committee has brought together experts from throughout the world to convene in San Diego, CA, July 16 – 20, 2000 to present their views and experiences. The conference has also attracted a record number of students, ten, who will be competing in the Annual Student Paper Contest. In addition, over 25 poster presentations will be displayed on a wide variety of aquatic plant topics. Not be overlooked, we expect a good turnout of vendor exhibitors, a number of whom have already generously committed sponsorship monies towards several of this year's meeting events.

We're expecting a large turn-out for the conference, so if you're still waiting on making reservations at the Handlery Hotel and Resort, don't procrastinate too long. Arrive Saturday, take advantage of saving on airfares, and spend it on some of the many sights and recreational activities in and around the San Diego area. Join us Sunday evening for a casual, poolside gathering at the President's Reception to (Continued on Page 2 - 2000 Meeting Plans)



Jim Schmidt and the APMS Local Arrangements
Committee have arranged for an exceptional meeting; with informative presentations by colleagues from around the globe, as well as loads of activities to enjoy.
See you in San Diego.

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Hope to See YOU in San Diego for Our 40th Annual Meeting !!!!!

2000 Meeting Plans - continued from Page 1.

mingle with both old and new colleagues. The weather is guaranteed to cooperate.

Monday morning's Plenary Session addresses a number of key issues and opportunities facing us today at the Federal, state and local levels. President Decell has promised to provide an informative and inspirational address with a vision towards the future of the APMS. We hope to hear from invited speaker, Congressman Ron Packard, who has been quite involved in invasive plant initiatives at the Federal level. Get an update on the AERF to find out the positive impacts from government and industry working together. The Regional Chapter reports always provide excellent insights into what's happening in different parts of the country and even the Nile Basin. Additional papers on aquatic plant management experiences and educational sources round out the morning before the Annual Business Meeting.

The Ad Hoc International Program Committee searched the globe to come up with a Monday afternoon session full of papers varied by both topic and location. We start off with a Keynote address from Wim van Vierssen, a world renowned limnologist from the Netherlands. Our afternoon tour takes us to Scotland, Egypt, Brazil, Australia, New Zealand, Africa, Ireland and Puerto Rico. Everything from eating Alligator Weed to dealing with plants in the Australian impoundments to be used for the 2000 Summer Olympics is on the afternoon "menu". We also have the honor and pleasure to have two students from Glasgow presenting as part of the Student Paper Contest. Don't miss the tour, and expand your aquatic plant management horizons worldwide.

Tuesday offers variety. The morning opens with an array of presentations on Aquatic Plant Ecology and Physiology. The Session is best characterized as an "evolution" of talks ranging from discussion of biochemical processes at the cellular level on up to aquatic plant interactions with fish and waterfowl. After a morning break, it's back to business in a "Case Studies" session. Find out what has been done or is being done on specific plant species or at specific locations throughout the courtry. Return from hinch for the Chemical Control Session. Hear the latest research and operational updates on formulations, combination products and techniques being used from U.S. Army Engineers scientists, aquatic product manufactures and university research personnel. Take a break and return for a varied discussion on "Biological, Mechanical and Environmental Control" experiences, research and techniques. Topics range from a series of papers on Hydrellia pakistanae to-grass carp and mechanical shredding.

The Tuesday evening Banquet, a dinner cruise on San Diego Bay abourd the Spirit of San Diego will provide a real treat after two days of intense papers. The event will feature a live band, Mumbo Gumbo, for you added evening entertainment. As a change of pace, we will not conduct or usual Awards and Installation of New Officers at the Banquet. Instead, this has been deferred to a Wednesday Luncheon.

We were pleasantly surprised to receive an outpouring of varied papers on Eurasian Water Milfoil (EWM), enough, in fact, to dedicate the Wednesday morning session to this plant of notoriety. While a number of papers on the Milfoil Weevil had been requested and received, the subject matter on EWM ranges into studies on fungal pathogens and exudates; interrelationships with macroinvertebrates and largemouth bass; and control and prevention with public education programs, quarantines, and chemical methods. There's an early (11:30) break for an extended Luncheon and Awards Presentations next door in the Presidio Room, as mentioned above. Join us as we present the Student Paper Awards and install our new officers.

Our final, Wednesday afternoon Session on GIS/GPS promises to be interesting and interactive. After a few (indoor) papers on how this technology can and is being used in aquatic plant management, meeting attendees will reconvene poolside for demonstrations and hands-on experience with the latest equipment.

There will something for everyone to learn and take back with them from the 2000 APMS Conference. We hope to see many old and new faces in San Diego.

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Additional Meeting Info

Handlery Hotel and Resort

- Call 619-298-05-1 for lastminute changes to your lodging reservations.

Tours & Site-seeing: The following information is a summary of tour info members should have previously received by separate mailing.

Field Trip #1, July 20th, Model Wetland/ Marsh Project tour. Thursday afternoon, 1:00 to 3:00 pm. Deadline for sign-up is noon, Monday, July 17th, although limited to first 45. No fee for delegates or guests. "Friendship Marsh" is a model Marsh Restoration Project. Dr. Sharook Madon with the Pacific Estuarine Research Laboratory will provide an introduction and tour of the USA side of this unique project that straddles the US/Mexican border.

Tield Trip #2. July 20th, 2-Hour tour of Wild Animal Park and full-all-day admission. Thursday, 9:00 am to 3:00 pm. \$29.65 each. Deadline for sign-up is noon, Monday, July 17th, although limited to first 36. Busses included in fee. Discuss transportation arrangements at sign-up.

Field Trip #3. Post-meeting Tour of Aquatic and Riparian Invasive Plants and Management Projects in California. 5-days and 4-nights. Total cost = \$800; \$200 deposit due by June 20th. \$600 balance by noon, Monday, July 17th. Includes all lodging, meals, transportation, and a group photograph. Departs July 21th (Friday) at 7:00 am and returns to Handlery on July 25th.

Events/ Sponsorships for APMS Meeting

" APMS- SePro Sea Cruise" on San Diego

Bay. The Aquatic Plant Management Society and SePro Corporation are jointly sponsoring a special four-hour dinner dance-concert cruise Tuesday evening, July 18th. APMS delegates will leave dockside in San Diego at 6:30 PM aboard the "Spirit of San Diego" for beautiful views of the bay, a spectacular sunset and night skyline. We'll be greeted as we board with champagne and entertained by Mumbo Gumbo, a great dance band with musical roots in zydeco, reggae, rock and R&B- a truty eclectic and original sound! Dinner is buffet-style with a California flare. Don't miss this!!

"APMS Awards Luncheon". On Wednesday, July 19, Student Paper winners will be announced at luncheon sponsored by Zeneca Corporation. Other APMS awards will be announced, winners of the Silent Auction and the new APMS Officers will be introduced.

"International Delegate and Student Luncheon". On Monday, July 17th, Applied

Biochemists will sponsor a get-acquainted luncheon for all student presenters, their advisors to meet with presenters from outside the US. This will provide a great opportunity for students to meet visiting scientists from several counties.

"Local Chapters Breakfast". On Tuesday moming, July 18th, Elf Atochem is sponsoring the traditional gettogether for APMS Local Chapters.

VI SIT THE APMS WEB SITE

www.apms.org

FOR ADDITIONAL MEETING INFO

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Proceedings Articles for the APMS Annual Meeting

Since this year's annual meeting is an International Meeting, the Journal of Aquatic Plant Management will be publishing the proceedings of the annual meeting as the January 2001 issue. Submission of proceedings articles is strictly optional, but strongly encouraged, for presenters of both pleforn talks and poster presentations. To ensure quick turnaround of the articles, it is imperative that authors bring their manuscripts with them for submission at the meeting. Page charges for this special issue have been waived, but charges for reprints will be assessed if reprints are requested. Late manuscripts cannot be accepted. Format for manuscript submission is provided on the APMS webpage at http://www.apms.org. If you have any questions concerning manuscript guidelines, acceptance, timelines, or other concerns; contact the editor at 601-634-4631 or madseni@wes.army.mil.

***** NOTICE *****

Effective August 1, 2000 the new address for the Editor of the Journal of Aquatic Plant Management will be:

Dr. John D. Madsen Biological Sciences Department S-242 Trufton Science Center Minnesota State University Mankato, MN 56001

(Departmental Office): Phone: 507-389-2786 Fax: 507-389-2788

Biographical

Vice-President: Richard M. Hinterman

Mr. Hinterman has been actively involved in aquatic plant management since 1976. He founded a company that has become one of the largest application/distributor businesses in the country. Mr. Hinterman was a founder of the Midwest Aquatic Plant Management Society (MAPMS). He has served as President and Director of MAPMS, as well as serving on many committees. Having been a long-time member, he has served as Director of APMS and currently serves as Chair of the Finance Committee. He has been a strong force in the development of the Society's Scholastic Endowment Fund. Mr. Hinterman was a founder of the Aquatic Ecosystem Restoration Foundation (AERF) and is the current AERF Treasurer. He serves on various committees of several state agencies, including Michigan Department of Natural Resources, Michigan Department of Environmental Quality, and Michigan Department of Agriculture.

Treasurer: Don Doggett

Mr. Don Doggett has been active in the field of aquatic plant management and a member of PMS for twenty-one years. Mr. Doggett has served on several committees and chaired the Site Selection Committee for four years. Mr. Doggett is the current APMS Treasurer, having been first elected in 1997. He has been involved with the Plorida APMS for more than twenty years and served as President in 1996. Don is currently employed as Superintendent of Lee County Hyacinth Control District, Fort Myers, Florida.

Editor: John D. Madsen

Dr. John D. Madsen, a research biologist in the Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi, is the Team Leader for the Aquatic Plant Ecology Team. He conducts research on the ecology, management, and restoration of aquatic plants across the United States. Dr. Madsen has a Bachelor of Science degree from Wheaton College, and Master of Science and Doctor of Philosophy degrees in Botany from the University of Wisconsin-Madison. Dr. Madsen has been the Editor of the Journal of Aquatic Plant Management since 1997. Before that, he was Associate Editor of the Journal of Aquatic Plant Management (1996-1997), Chair of the Student Affairs Committee (1996-1997), judge for the student paper contest, and member of the Pinance Committee. He was also on the Board of Directors for the Texas Aquatic Plant Management Society (1993-1994), and served as Chair of the Scholarship and Awards Committee of Texas APMS (1993-1996). He has been a member of APMS since 1988.

Director: Jee Bondra

Mr. Joe Bondra has been active in the aquatic plant management since 1989. First employed as a Sales Representative with Cygnet Enterprises, Inc. in 1990, he was promoted to General Manager in 1991. He is presently General Manager of Cygnet's operations nationally, with operations in Michigan, North Carolina, and Pennsylvania. Mr. Bondra was elected President of the Midwest Aquatic Plant Management Society (MAPMS) in 1997 and presently serves as Past President, Chair of Exhibit, Publicity, and Scholarship Committees for MAPMS. He is also a committee member for the Local Arrangements, Auditing, Bylaws, and Membership Committees. Mr. Bondra has attended the previous two annual Responsible Industry for a Sound Environment (RISE) Conferences, as the MAPMS Representative, with plans to become active in RISE's Communication Committee. Mr. Bondra has been Chair of the Exhibit Committee for APMS since 1997.

Director: Jeffrey D. Schardt

Mr. Jeffrey Schardt is employed as Environmental Administrator by the Florida Department of Environmental Protection, Bureau of Invasive Plant Management. He received a Bachelor of Science Degree in Biology from Penn State University in 1976. Mr. Schardt has twenty-three years experience with aquatic plant management. He developed a stocking rate model for grass carp, developed Florida's aquatic plant permitting, inventory, and monitoring programs, and is involved in acquiring Florida's annual \$25 million aquatic plant control funding. Mr. Schardt is the current President of the Florida APMS, a Board member of National Bass / Grass Alliance, and the BASS / APMS liaison.

APMS Board of Directors, 1999-2000

Officer	Telephone	Email
President Lewis Decell	601-638-7150	jldcom@aol.com
Imm. Past President David Spencer	530-752-1096	dfspencer@ucdavis.edu
President Elect Jim Schmidt	800-558-5106	jirnschmidt@appliedbiochemists.com
Vice President David Tarver	904-668-2352	davidptarver@worldnet.att.net
Treasurer Donald Doggett	941-694-2174	dogget@mail.dms.state.fl.us
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Eric Barkemeyer	919-603-0131	aquan@gloryroad.net
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Bob Gunkel	601-634-3722	gunkelr@wes.army.mil
Michael Smart	972-436-2215	msmart@gte.net

Strategic Planning Committee Questionnaire

In 1999, President Lewis Decell formed an APMS, Inc. Ad Hoc Committee for Strategic Planning. The goals of this committee are to ensure that the APMS, Inc. is correctly positioned for the future, and to recommend changes, if any, that need to be implemented. This effort will take at least 1-2 years to complete. Several basic elements of our organization, it's operation, and mission/purposes must be evaluated. One very important aspect of this inward evaluation is to obtain information about our members, and their opinions and views.

A questionnaire has been developed and will be included in the registration package at the 40th Annual Meeting. Each member present is asked to take the time to fill out the questionnaire and return it to the registration desk prior to leaving the meeting, or give it to an Officer or Board Member. The information we need is very important relative to decisions that the Board of Directors will have to make.

The APMS, Inc. has been successful, by any standards. However, we have operated in essentially the same manner for over 20 years. Our operational procedures may or may not be the most effective to sustain us in the future. We are conducting an historical analysis of our operations, including our annual meetings.

Provide your influence by giving the questionnaire serious consideration. If you don't return it before you leave the meeting, please mail it to:

Lewis Decell P O Box 820438 Vicksburg, MS 39182-0438

We will mail copies to members who were unable to attend the 40th meeting, and will provide feedback to the membership through our web page and newsletters.

1999 - 2000 Sustaining Members

Applied Aquatic Management, Inc. Eagle Lake, Florida

> Applied Biochemists, Inc. Milwaukee, Wisconsin

Aquarius Systems North Prairie, Wisconsin

Aquatic Control, Inc. Seymour, Indiana

Aquatic Management Services, Inc. Novi, Michigan

> Aquatics Unlimited Martinez, California

Brewer International Vero Beach, Florida

Cheltee, Inc. Sarasota, Florida

Cygnet Enterprises, Inc. Flint, Michigan

> Dow Agrosciences Indianapolis, Indiana

Elf Atochem Exton, Pennsylvania

Griffin Corporation Valdosta, Georgia

Monsanto Agricultural Company St. Louis, Missouri

> Nufarm Americas, Inc. St. Joseph, Missouri

Professional Lake Management Alto, Michigan

Resource Management, Inc. Tumwater, Washington

> SePRO Corporation Carmel, Indiana

Terra Ft. Myers, Florida

Texas Aquatic Harvesting, Inc. Lake Wales, Florida

> UAP/UHS Tampa, Florida

Zeneca Professional Products Wilmington, Delaware

APMS 2000 PROGR	RAM DRAFT AGENDA	
SATURDAY JULY 15, 20	000	
1:00 pm - 5:00 pm	APMS Strategic Planning Ad Hoc Committee Meeting	TBA
SUNDAY JULY 16, 2000		
8:30 am - 3:00 pm	APMS Board of Directors Meeting	Executive Room
9:00 am - 6:00 pm	Exhibit Set-up	Garden Room
	360 70 18 00	13000 2000 10000
9 00 am - 6:00 pm	Poster Set-up	Tenace Toom
12:00 noon - 6:00 pm	Registration	Foyer
12:00 noon - 6:00 pm	Presenter's Slide Reviewing	California Room
7 00 pm - 9:00 pm	President's Reception - All Delegates Invited	Poolside
MONDAY JULY 17, 2000		
8:00 am - 5:00 pm	Registration	Foyer
8:00 am - 5:00 pm	Exhibits	Garden Room
8:00 am - 5:00 pm	Posters	Terrace Toom
8:00 am - 5:00 pm	Presenters' Slide Viewing	California Room
8:30 am - 1 00 pm	Spouses' Tour of San Diego Historic Sites, Pt. Loma Lighthouse	California (100m)
5,50 ant - 1 00 pm	& Luncheon - Sponsored by Elf Atochem	Malai Labbu
*****		Holel Lobby
12:00 noon - 1:00 pm	International Guests & Student Presenters & Advisors Luncheon	G.W. June
	Sponsored by - Applied Blochemists	Tower Room
12:00 noon - 1:00 pm	AERF Board Meeting - Members & Invited Guests	Executive Room
5.30 pm - 7:30 pm	AERF Facus Group - Members & Invited Guests	Tower Room
Session I	PLENARY	Crystal Room
Presiding	Lewis Deceil - President APMS	and American and American
8.00	Carp. Nico	
8.00:am	Call to Order	
8:05 AM	Opening Announcements:	
0,000	Jim Schmidt, Program Chair/President-Elect APMS, Inc.	
	Lars Anderson, APMS Local Arrangements Chair	
8 10 AM	Presidential Address	
	Lewis Decell, President, APMS, Inc.	
8:50 AM	APMS Regional Chapter Reports - Florida - Midwest -	
	Mid-south - Nile Basin - NortheastSouth Carolina - Texas -	
	Western	
	Selected Chapter Officer or Delegate	
	No. 1970 C. St. A. M. Market No. 10. April.	
9 30 AM	Federal Funding for Management of Invasive Aquatic Species	
	Rep. Ron Packard (R-CA) - Invited	
9.50 AM	The Aquatic Ecosystem Restoration Foundation: A Unique	
3.50 Am		
	Approach to Applied Research.	
	Michael D. Moore, Executive Director, AERF, Lansing, MI.	
10:05 AM	BREAK / REFRESHMENTS	Garden Room
10:20 AM	Old Minds Clumbing Form Florida Islands are not Calc	Carrier Section
10.20 AM	Old-World Climbing Fern - Floating Islands are not Safe.	Crystal Room
	Randall K. Stocker, Director, Univ. of FL/IFAS Center for	
	Aquatic and Invasive Plants, Gainesville, FL	
to as the		
10:35 AM	APIRS-Current Status and Potential New Directions	
	Karen Brown, Univ of FL Center for Aquatic & Invasive	
	Plants, Gamesville, FL.	
10.50 444	Description CALEGO Books and the section of the sec	
10:50 AM	Overview of the CALFED Program with an Invasive Species Perspective	
	Bellory Fong, Environmental Program Manager, CALFED.	
	Sacramento, CA.	
11.05 AM	Aquatic Plant Management at the City of Orlanda: Its Past.	
	Present and Future:	
	John A. Evertsen, City of Orlando Dept of Streets &	
	Drainage, Orlando, FL.	
20 W 100	There is a second of the secon	
11.20 AM	ANNUAL APMS BUSINESS MEETING Prosident Lowis Decoil Presiding	
	Free San San Court Lesinal	
12:00 Noon	LUNCH	
12:00 Noon - 1:00 PM	International Guests & Student Presenters/Advisors' Luncheon	
	Sponsored by - Applied Blochemists	Towar Room
12:00 Noon - 1:00 PM	Aquatic Ecosystem Restoration Foundation (AERF) Board	
1-2 STATES WALLE	of Directors Meeting & Luncheon	Executive Room
	at a second of the second of second of	LOCALITY INC.

SESSION II Moderator	INTERNATIONAL Dr. Lars Anderson	Crystal Room
100 PM	Keynote: The Age of Water Scarcity In Search of a New Paradigm in Aquatic Weed Control Wilm Van Viersagn, I H.E Delft	
1 30 PM	Invasive Elodea Problems Impacting Najas flexilis: a Rare Native Macrophyte in Scotlish Lochs. (Student Paper) Ruth Wingfield & K. J. Murphy, University of Glasgow, Glasgow, Scotland.	
1 45 PM	Trait Vanation in Lotic Macrophyte Populations from Scotland and Egypt in Relation to Water and Sediment Physio-Chemistry, Magdi M. All & K. J. Murphy University of Glasgow, Glasgow, Scotland.	
≥ 00 PM	Plant-Groundwaler Interactions in Freshwater Wetlands: A Functional Monitoring Approach (Student Paper) Michael P. Kerinedy, K. J. Murphy, S. D. J. Gilvear, University of Glasgow, Glasgow, Scotland.	
2'15 PM.	Functional Variation in Eichornia Species in Brazilian Floodplain Waterbodies Kevin J. Murphy, S. M. Thomaz, & C. M. Bini, University of Glasgow, Glasgow, Scotland.	
2:30 PM	Studies for Aquatic Plant Management in Hydro Electrical Lakes in Brazil Danlef A. S. Marcondes, Andre L. Mustafa & Robson H. Tanaka, Directorate of Environment, CESP, Dagoberto Martins, Edivaldo D. Velini & Robinson A. Pitelli, Sao Paulo Stafe University, SP, Brazil.	
2:45 PM	Aquatic Plant Survey in Hydro Electrical Lakes in Brazil. Robson H. Tanaka, Directorate of Environment, CESP, Dagoberto Martins, Luciana R. Cardoso & Robinson A. Pitelli, Sao Paulo State University, SP, Brazil.	
3.00 PM	BREAK / REFRESHMENTS	Garden Room
3 15 PM	Macrophyte Population Changes in Santana Reservoir, Rui de Janeiro, Brazil, Five Years of History R. A. Pitelli, G. F. Nachigal, A. M. Pereira, R. Bosan, & E. Vienra, FCAV/UNESP, Sao Paulo, Brazil State University, R. A. Bichara & L. A. B. Grande, LIGHT, Usina de Fontes, RJ, Brazil	
3.30 PM	Managing Excessive Aquatic Plant Growth in a Lake Down- Under, Build It and They Shall Proliferate Danny Roberts, Geoff Sainty, Sharon Cummins & Geoff Hunter, Sainty and Associates, NSW Australia & Lars Anderson, USDA, UC-Davis, Davis, CA	Crystal Room
3.45 PM	Managing Stormwater Runoff with an Off-line Wetland Treatment Statem Geoff Salnty, Sainty and Associates, PTY Itd., Geoff Hunter, Hunter Environmental Services. Jerome Allchin & David Bluett, Business Land Group, & David Hunt, David Hunt & Associates, Pty Ltd., NSW Australia	
4 00 P.//	Alligator Weed: Tastey Vegetable in Australian Backyards. Lalith Gunasakera & Julio Bonilla, Cooperative Research Centre for Weed Management Systems, Agriculture Victoria, Dept. of Natural Resources & Environment	
4.15 PM	Evaluation of New Herbicides for the Control of Submerged Weeds in New Zealand. Deborah Hofstra & J. S. Clayton, National Institute of Water and Atmospheric Research, Hamilton, New Zealand & K. D. Getsinger, U. S. Army Engineer Research & Development Center, Vicksburg, MS.	
4 30 PM	Lake Victoria Regional Water Hyacinth Management Program. Thomas J. McNabb, Clean Lakes, Inc., Martinez, CA, Thomas G. Moorhouse, Clean Lakes, Inc., Kampala, Uganda & Dick Nyeko, Ministry of Agriculture, Entende, Uganda	
4 45 PM	The Management of Grant Hogweed (Heracleum mantegazzianum) in an Insh River Calciment. Joe Caffrey, Central Fisheries Board, Dublin, Ireland	
5:00 PM	Introduction and Release of the Alligator Flea Beetle, Agasides hygrophila in Puerto Rico. Edwin Abreu & Nelson Semidey, Crop Protection Dept., University of Puerto Rico, & Lourdes Bernier, Dept. of Natural Resources & Environment, Puerto Rico.	
515 PM	ANNOUNCEMENTS & ADJOURN	
5:30 pm - 7:30 pm	AERF Focus Group - AERF Members & Invited Guests	Tower Room

THEFTHAN WILLIAM TORK		
TUESDAY, JULY 18, 2000 6:30 AM - 8:00 AM	APMS Regional Chapters Presidents' Breakfast-Sponcored	
	by Zaneca Professional Products	Executive Room
8:00 am - 5:00 pm	Registration	Fover
8 00 am - 5:00 pm	Exhibits	Garden Room
8:00 am - 5:00 pm	Posters	Terrace Toom
8:00 am - 5:00 pm	Presenters' Slide Viewing	California Room
5.30 pm - 10:00 pm	Annual APMS Banquet - Cruise, Dinner & Entertainment Co-Sponsored by - SePro Corp. & APMS	Spirit of San Drego
SESSION III	Amendia Glant Carlain & Dhustainn	a
Moderator	Aquatic Plant Ecology & Physiology Dr. Dean Martin	Crystal Room
8.00 AM	trategram and Charles and Char	
-0.00 AM	Isolation and Characterization of Bioactive Compounds from Typna domingensis Dean F. Martin & Maha T. Callardo-Williams, University of South	
	FL. Tampa, FL. & Cherie I. Geiger, University of Central FL. Orlando, FL.	
	The state of the s	
8 15 AM	Removal of Aqueous Selenium by Four Aquatic Plants (Stodent Paper) Kathleen M. Carvatho & Dean F. Martin, University of South FL. Tampa, FL.	
Art O.		
8 30 AM	Effect of Water Depth on Torpedograss Establishment	
	Dian Smith & Michael Smart, U.S. Army Engineer Research and Development Center, LAERF,	
	Lewisville, TX & Chuck Hanlon, SFWMD, West Palm Beach, FL	
8 45 AM	Traits of Four Submersed Aquatic Macrophyte Species: Effects on Resources, Environmental	
	Conditions and Resilience after Clipping and Drought Disturbances (Student Paper) Katharina Engelhardt & John A. Kadlec, Utan State University, Logan, UT	
202111		
9.00 AM	Simulation of Potential Persistence of Sago Pondweed and American Wildcelery in Peona Lake,	
	Illinois, Using Recent and Historical Data on Light Availability and Suspended Segments. (WU 33128) Elly P.H. Best & William Boyd, U.S. Army Engineer Research & Development Center, Vicksburg,	
	MS. & William F. James, U.S. Army Engineer Research & Development Center, Spring Valley, WI	
	mes a remain resource, c.o. remy engineer necessiter a percognition before adming valley, wi	
9 15 AM	Economic Value of Aqualic Vegetation to Fishenes (WU 33307)	
	James P. Kirk & Jim E. Henderson, U.S. Army Engineer	
	Research and Development Center, Vicksburg, MS	
- Cart 170 -		
9:30 AM	Effects of Hypoxia on Fish Distribution in Vegetaled Habitals. (V U 32944)	
	K. Jack Killgore & Jan Jeffrey Hoover, U.S. Army Engineer	
	Research and Development Center, Vicksburg, MS.	
945 AM	Selection and Use of Aquatic Vegetation by Migratory Waterfowl in North Central Texas	
	(Student Paper)	
	JoEtta K. Smith, Robert D. Doyle & Kén L. Dickson, University of	
	North Texas, Denton TX & Gary O. Dick, LAERF, Lewisville, TX.	
140040	Search advantage of the search	
10/00 AM	BREAK / REFRESHMENTS	Garden Room
SESSION IV	Case Studies & Experiences	Crystal Room
Moderator	Dr. Allson Fox	G/ (410) (355)
10:15 AM	The Resilience of Rhizomes: A Case-study of Pickereliweed	
	Allson Fox, University of FL/IFAS, Gainesville, FL.	
	United the control of	
10:30 AM	Predicting the Sprouling of Hydrilla Turions and Tubers in Clear Lake, California.	
	David Spencer & Gregory Ksander, USDA-ARS Exolic & Invasive Weed Research Unit UC Davis, CA.	
	OC Davis, CA.	
10:45 AM	Nonchemical Alternatives for Weed Control in Oregon Impation Canals.	
	Mark Sytsma, Portland State University, Portland, OR & Michael Parker	
	Southerm Oregon University, Ashland, OR.	
31 00 AM	Operational Biological Control at the Aquatic Plant Control	
	Operations Support Center (APCOSC) in the Jacksonville District	
	Charles Ashton, U.S. Army Corps of Engineers, Jacksonville, FL.	
11 15 AM	Imploid Grass Carp. A Review of the Imperial Irrigation District's Biological Program	
THE SHIP	Lupe Castro, Imperial Irrigation District, Imperial Valley, CA.	
	7	
11:30 AM	Biology and Control of Limnophila	
	W. T. Haller, University of Florida, Center for Aqualic & Invasive Plants, Gainesville, FL.	
44 W 50 D		
11.45 AM	Salvinia molesta in Alabama - The First Year Story	
	Joe Zolczynski, Alabama Div. Of Wildlife and Freshwater Fisheries, Spanish Fort, AL.	
12 00 Noon	LINCH (Og You Own)	
- 300 130011	LUNCH (On You Own)	

Session V Moderator	Chemical Control Dr. Kurt Getsinger	Crystal Room
1 00 PM	Smatt-scall Herbicide Evaluations Against Giant Salvinia (WU 32437) Linda S Nelson & Kurt D. Getsinger, U.S. Army Engineer Research & Development Center, Vicksburg, MS & John G. Skogerboe, LAERF, Lewisville, TX	
1 15 PM	Aqualic Vegetation Control in Irrigation Conveyance Systems and Treatment Results on Salvinia molesta with Cleangate Aquatic Herbicide Paul Westcott, Applied Biochemists, Phoenix, AZ	
1 30 PM	Effects of Water and Copper Complexes in Combination with REWARD Herbicide Staven J. Kammerer, Zeneca Professional Products, St. Augustine, Ft.	
1.45 PM	Field Demonstrations of Aquathol K Combined with Reward. Cutrine-Plus and Hydrothol 191 for Improved Control of Hydrilla. (WU 33304). John G. Skogerboe, U.S Army Engineer Research and Development Center, Vicksburg. MS, and Toni G. Pennington, Aquatic Ecosystem Restoration Foundation, Flint, MI.	
200 PM	Evaluations of Aquathol K Combined with Reward, Cultime-Plus and Hydrothol 191 for Improved Control of Hydrilla. (WU 33304) Toni G. Pennington, Aquatic Ecosystem Restoration Foundation, Flint, MI, and John G. Skogerboe, U.S. Army Engineer Research & Development Center, Vicksburg, MS	
2:15 PM	Estimaling Exchange Flows and Herbicide Transport in a Shallow Lake (Student Paper) Svenn 'O. Palmarsson, S. Geoffrey Schladow & Lars W. J. Anderson, UC Davis, Davis, CA	
2:30 PM	Fail Application of Sonar for Control of Egeria densa in a Seasonally-filled Lake in Northern CA Lars W. J. Anderson & Chris Pirosko, USDA-ARS Exotic and Invasive Weed Research, UC Davis, CA & Tyler Koshnick, SePRO Corporation, Carmel, IN.	
2 45 PM	Differential Response of Hydrilla to Flundone. Michael D. Netherland, SePro Corp., Carmel, IN, William T. Haller., University of Florida, Center for Aqualic & Invasive Plants, Gainesville, FL. Carole A. Lémbi, Purdué University, West Lafayette. IN. & Kurt D. Getsinger, U.S. Army Engineer Research & Development Center, Vicksburg, MS.	
3:00 PM	BREAK / REFRESHMENTS	Garden Room
Session VI Moderator	Biological, Mechanical & Environmental Control Dr. John D. Madsen	Crystal Room
3 15 PM	Restoration of a Shallow Lake Through Drawdown. John D. Madsen, R. Michael Stewart & John W. Barko, U.S. Army Engineer Research and Development Center, Vicksburg, MS & Daniel R. Helsel, Wisconsin Dept. of Natural Resources. Milwaukee, WI.	
3:30 PM	Potential Control of Hydrilla verticiliata by Use of a Classical Biocontrol Agent in Combination with a Competitive Native Plant Species. (WU 33117) Michael J. Grodowitz & R. Michael Smart, U.S. Army Engineer Research & Development Center, Vicksburg, MS & Robert Doyle, University of North Texas, Denton, TX	
3.45 PM	Nutritional Status of Hydrilla verticiliata Grown Under Vanous Environmental Conditions and its Effect on Hydrellia pakistanae. (WU 33305 & 33208) Jan E. Freedman, Michael J. Grodowitz & Dwilette G. McFarland, U. S. Army Engineer Research & Development Center, Vicksburg, MS.	
4:00 PM	Impact of Parasites and Predators on Hydrellia pakistanae, a Biological Control Agent of Hydrilla vencilitata. (WU 33028) (Student Paper) Christi Snell & Jennifer Booker, University of North Texas, Dention, TX, and Michael J. Grodowitz & Alfred F. Cofrancesco, U. S. Army, Engineer Research & Development Center, Vicksburg, MS	
4.15 PM	Possible Impact of Hydrellia pakistanae on Lake Seminole Hydrilia. (WU 33028) Al Cofrancesco Michael J. Grodowitz, R. Michael Stewart & John D. Madsen, U.S. Army Engineer Research and Development Center, Vicksburg, MS, Don Morgan, U. S. Army Engineer District - Mobile, Lake Seminole Field Office, Chattahoochee, FL, & Ed Snoddy, formerly Tennessee Valley Authority, Muscle Shoals, AL.	
4.30 PM	Population Management of Triploid Grass Carp. (WU 33200) James P. Kirk, U.S. Army Engineer Research and Development Center, Vicksburg, MS	
4 45 PM	Macrophyle Management via Mechanical Shredding: Effects on Water Quality in Lake Champlain (Vermont-New York). William F. James and Harry L. Eakin, U.S. Army Engineer Research & Development Center, Spring Valley, WI, & John W. Barko, U.S. Army Engineer Research & Development Center Vicksburg, MS	
5.00 PM	ADJOURN	
5:30 PM - 10:00 PM	APMS Annual Banquet - Dinner Cruise & Entertainment	Spirit of San Diego
	Moderator 1 00 PM 1 15 PM 1 30 PM 1 45 PM 2 30 PM 2 30 PM 3 30 PM 3 45 PM 3 30 PM 4 30 PM 4 500 PM 4 500 PM	100 PM Shadon of Sun O Gelsinger U.S. Army Engineer Research & Development Cemer, Vicksburg, U.S. & John G. Stoognoop, L.B. ARR. Lewswife, T.X. 116 PM Appare Vegetation Control in Impagno Conveyage Systems and Treatment Resolution of Story and Processing Processi

Wednesday July 18, 2000		
8 00 am - 5:00 pm	Exhibits	Garden Room
8 00 am - 5 00 pm	Posters	Tenace Toom
8:00 am - 5:00 pm	Presenters' Slide Viewing	California Room
11:30 am - 1:15 pm	APMS AWARDS / OFFICER INSTALLATION LUNCHEON Sponsored by Zeneca Professional Products	Presidio Room
SESSION VII Moderator	Eurasian Watermilfoll Biology & Control	Crystal Room
Woodala	Holly Crosson	
8 00 AM	Commercial Use of the Milfoil Weewi as a Biological Control for Eurasian Watermilfoil Martin A. Hillovsky & Christina Brandl, EnviroScience, Inc. Stow. OH. Sallie Sheldo, Middlebury College, Middlebury, VT	
8 15 AM	Overwinter Habital and the Relationship to In-Lake Densities of the Milfoil Weeyil, Eutrychiopsis leconte: A Eurasian Watermiltoil Biological Control Agent. Raymond M Newman David W. Ragsdale, Alyson Milles & Cary Oren, University of Minnesota. St. Paul, MN.	
w 200 2 kg	with the state of the control of the state o	
8,30 AM	Indigenous Populations of Eubrychiopsis, Acentria and Cricotopus with Implications for the Biological Control of Eurasian Watermilfoli. Robert L. Johnson, Cornell University, Ithaca, NY.	
8:45 AM	The Search for Exudates from Eurasian Water Milfoil and Hydrilla (Student Paper)	
9.19(30)	Lee Ann Glomski, Carole A. Lembi, Karl V. Wood, Ralph L.	
	Nicholson & Phillip Wharton, Purdue University, West Lafayette, IM	
9 00 AM	Selected Fungal Associates of Myriophyllum spicalum L	
	Pathogens or Endophytes? (WU 33306) Judy F. Shearer, U.S. Army Engineer Research and Development Center, Vicksburg, MS.	
	July 1, allegater, 0.0. Army Engineer (research and Development Center, Vicksburg, Mon	
9.15 AM	Epiphytic Macroinvertebrate Abundance Along a Gradient of	
	Eurasian Water Milfoll Cover (Student Paper)	
	Kendra S. Cheruvelli, P. A. Soranno & M. J. Sanborn, Michigan	
	State Univ , East Lansing, MI, J. D. Madsen, U. S. Army Engineers	
	Research and Development Center, Vicksburg, MS	
9 30 AM	The Indirect Effects of Eurasian Watermilfoit and Its Management on Largemeouth Bass Recruitment (Student Paper)	
	Rahman D. Valley & Mary T. Bremigan, Michigan State University,	
	East Lansing, wil	
w. 40 414	PDC AV I DEED COLUMN TO A STATE OF THE STATE	No. 40 October
9:45 AM	BREAK / REFRESHMENTS	Garden Room
10:00 AM	Washington's Aquatic Plant Quarantine - Preventing the	Crystal Room
	Introduction of the next Eurasian Water Milfori	
	Kathy Hamel & Jennifer Parsons, Washington Dept. of Ecology,	
	Olympia, WA.	
10:15:AM	Eurasian Waterm foil Control and Exolic Species Prevention in	
	Sealile's Lake Youngs Reservoir.	
	Rob Zisette, Herrera Environmental Consultants, Seattle, WA.	
10:20 411	Such region of Service and Service and Service Willed	
10:30 AM	Evaluation of Sonar versus Egena and Eurasian Water Milfoil in a Flowing Environment.	
	Michael D. Notherland & Steve D. Cockreham, SePro Corp.	
	Carma, IN, John G. Skogerboe, U. S. Army Engineer Research	
	and Development Center, LAERF, Lewisville, TX.	
17 45 A51	Low Dose Applications of Triclopyr for the Selective Control of Eurasian Watermilloli. (WU 32841) Ansela G. Poovey, ASci Corp., U.S. Army Engineer	
	Research and Development Center, Vicksburg, MS, John G. Skigerboe,	
	U. S. Army Engineer, LAERF, Lewisville, TX. Kurt D. Getsinger,	
	John D. Madsen & R. Michael Stewart, U. S. Army Engineer Research and	
	Development Center, Vicksburg, MS, and Tyler Köshnick & Alicia Staddon, SePro Corp., Carrnel, IN.	
	A.A. marriera manage of manager and the solution of the	
11:00 AM	Responses of Eurasian watermilfoil (Myriophyllum spicatum) to	
	Inree endotnall products (Aquathol K, Hydrothol 191, Super K)	
	Lars W. J. Anderson & Chris Rirosko, USDA-ARS Explic and Invasive Weed Research, UC Davis, CA	
	THYBUTY THESE TRESCRICTS MY DOYIS, SA.	
11.30 AM	APMS AWARDS / OFFICER INSTALLATION LUNCHEUN	Presidio Room
	Sponsored by Zeneca Protessional Products	

Session VIII	GIS/GPS Use in Aquatic Plant Management Terry McNabb	Crystal Room
TITS PM	Sampling Techniques for Quantifying Submersed Aquatic Plants in L-Anse Creuse Bay, Lake St. Clair. (WU 33127) R. Michael Stewart John D. Madsen & Bruce M. Sabol, U.S. Army	
	Engineer Research and Development Center, Vicksburg, MS	
1.30 PM	Remote Sensing and Bathymetric Mapping Techniques to Support Large-Scale Sonar Applications Doug Henderson & Terry McNabb, ReMetrix, LLC., Carmel, JN.	
1 45 PM	What's Out There for GPS Data Collection? Patrick Akers, California Dept of Agriculture.	
2.00 PM	Demonstration of GPS Data Collection; Techniques and Issues (based on Trimble GeoExplorer GPS units). GPS Workshop Patrick Akers, California Dept. of Agriculture,	Poolside
4:00 PM	ADJOURN 2000 ANNUAL MEETING	
4:00 PM - 6:00 PM	Corps APCRP Review	Executive Room
Thursday July 20, 200	0	
8:00 AM - 11:00 AM	APMS Board of Directors	Executive Room
9:00 AM - 3:00 PM	San Diego Zoo Animal Park Behind the ScenesTour (36 max.) (Optional Pay as you go - Sign-up at Registration Desk by Noon on Monday July 17th)	Hotel Lobby
1:00 PM - 3:00 PM	Model Wetlands Marsh Project Tour - NO CHARGE (Sign-up at Registration Desk by noon 7/17 Irmited to the first 45 people)	Holel Lubby

Alternate Submitted Papers

Evaluation of Sonar for Selective Eurasian Watermitfoil Contro. Within the Treatment Season at One Year Posttreatment Tyler J. Koschntck, SePro Corp., Carmel, IN, John D. Madsen, U. S. Army Engineers Research and Development Center, Vicksburg, MS, Chelta Owens, U. S. Army Engineers LAERF, Lewisville, TX.

Posters Terrace Room

Sagittaria graminea: Emerging Aquatic Weed in Victoria, Austalia, Lalith Gunasekera & Kevin Krake, Cooperative Research Centre for Weed Management Systems, Agriculture, Victoria, Dept. of Natural Resources & Environment, Tatura, Australia.

Identification of Male and Female Plants of Egena so, In Jupia Reservoir, Brazil. Daniel A. S. Marcondes, Andre L. Mustafa, Rene A. F. Belmont, Robson H. Tanaka, & Carlos J. Rodrigues, Directorate of Environment, CESP - Companhia Energetica de Sao Paulo, SP, Brazil

Concepts for Modeling Competition Between Submersed Macrophyte Species (WU 33308)., Elly P. H. Best, U. S. Army Engineer Research & Development Center, Vicksburg, MS.

Impacts of Herbicide Use on Threatened and Endangered Plant Species (WU 33199). Linda S. Nelson and Kurt Getsinger, U. S. Army Engineer Research and Development Center, Vicksburg, MS.

Impact of Different Populations of Euhrychiopis lecontei on Eurasian Watermilfoit, Alfred F. Cofrancesco, Dwitette G. McFarland and John D. Madsen, U. S. Army Engineer Research and Development Center, Vicksburg, MS.

Methods to Determine Dispersal Mechanisms for Hydrilla and Eurasian Watermilfoji (WU 33188). Chetta S, Owens, Asci Corp., U. S. Army Engineer Research and Development Center, LAERF, Lewisville, TX and John D. Madsen, U. S. Army Engineer Research & Development Center, Vicksburg, MS.

Ecological Attributes of Exotic and Native Plant Communities (WU 33186). R. Michael Smart, U. S. Army Engineer Research and Development Center, LAERF, Lewisville, TX, Gary O. Dick and David R. Honnell, Institute of Applied Science, University of North Texas, Denton, TX.

Sediment Resuspension Dynamics in Canopy- and Meadow-forming Submersed Macrophyte Communities.

(WU 33128). William F. James, U. S. Army Engineer Research and Development Center, LAErf, Lewisville, TX and John W. Barko, U. S. Army Engineer Research and Development Center, Vicksburg, MS

Measurement Systems for Rapid Detection and Characterization of Aquatic Plants (WU 33118), Bruce M. Sabol, U. S. Army Engineer Research and Development Center, Vicksburg, MS.

Establishment of Native Aquatic Plants: An Overview (WU 33084). R. Michael Smart, U. S. Army Engineer Research and Development Center, LAERF, Lewisville, TX. and Gary O. Dick. Institute of Applied Science, University of North Texas, Denton, TX.

Integrated Endothall-fungal Pathogen Treatment on Four Submersed Plants (WU 32953), Linda S, Nelson and Judy Shearer, U. S. Army Engineer Research and Development Center, Vicksburg, MS.

Status of Introduced Hydrellia spp. At Alabama, Georgia, and Texas Sites as of November, 1999 (WU 33028). Michael J. Grodowitz, Jan E. Freedman, Harvey L. Jones and Alfred A. Cofrrancesco, U. S. Army Engineer Research and Development Center, Vicksburg, MS.

Mass Rearing Hydrellia pakistanae Deonier and Hydrellia balciunasi Bock, Biological Control Agents of Hydrilla verticillata (L.F.) Royle (WU 33028). Jan E. Freedman and Michael J. Grodowitz, U. S. Army Engineer Reseach and Development Center, Vicksburg, MS.

Surveys of Eichornia crassipes and Hydrilla verticillata and Associated Insect Biological Control Agents on the Lowe Rio grande (WU 33028). Michael J. Grodowitz, Jan E. Freedman and Harvey L. Jones, U. S. Army Engineer Research and Development Center, Vicksburg, MS, Lavon Jeffers, Dyntel Corporation, U. S. Army Engineer Research and Development Center, Vicksburg, MS, Carlos F. Lopez, U. S. Bureau of Reclamation, Oklahoma-Texas Area Office Austin, TX and Fred Nibling, U. S. Bureau of Reclamation, Technical Service Center, Research and Investigations, Denver, CO.

Preliminary Studies on Propagule Survival in Water Chestnut Treated with the Penny Shredder System (WU 33029).

Dwilette G. McFarland and R. Michael Stewart, U. S. Army Engineer Research and Development Center, Vicksburg, MS

Development of an Endemic Fungal Pathogen for Biological Control of Hydrilla (WU 32863), Judy F. Shearer, U. S. Arm. Engineer Research and Development Center, Vicksburg, MS.

Comparison of Areal Production Rates of Two Mechanical Systems for Control of Water Chestnut in Lake Champlain.

R. Michael Stewart and John Madsen, U. S. Army Engineer Research and Development Center, Vicksburg, MS and David R. Honnell, Institute of Applied Science, University of North Texas, Denton, TX.

Concepts of Modeling Between Submersed Macrophyte Species (WU 33308). Elly P. H. Best, U. S. Army Engineer Research and Development Center, Vicksburg, MS.

Changes in Levels of Soluble Sugars During Sprouting of Vegetalive Propagules of Hydrilla and Pondweeds. D. F. Spencer and G. G. Ksander, USDA-ARS Exotic and Invasive Weed Research Unit, UC-Davis, CA and F. J. Pyan, USDA-ARS Horticultural Corps Research Laboratory, Fresno, CA.

The Use of Stream Delta Surveillance as a Mechapism for Early Detection and Control of Eurasian Watermilfoil.

Lawrence W. Eichler, Eric A. Howe and Charles W. Bouten, Darrin Fresh Water Institute, Troy, NY.

Preventing the Purple Plague from Taking over California's Waterways. Cam Benefeld, Integrated Pest Control Branch, California Dept. of Food and Agriculture, Sacramento, CA.

Oregon and Chilean Populations of Equal density are Genetically Similar. M. Carol Carter and Mark D. Sytsma Dept. of Environmental Biology, Portland State University, Portland, OR.

Assessing Potential for Spread and Impacts of Eurasian Watermilfoil (Myriophyllum spicatum) in Lake Tahoe Using In situ Transplants and Bioassays. Katey Walter and Charles Goldman, USB Environmental Studies and Policy-Tahoe Research Group and Lars Anderson, USDA-ARS Exotic and Invasive Weed Research, UC-Davis, Davis CA

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 conterned 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.

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