



THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

POST OFFICE BOX 16
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K. A. Langeland, Editor/Weed Science Center—Box 7627/M. C. State University/Raleigh, N. C. 27695-7627

Newsletter No. 18

Twenty-Fourth Annual Meeting Another Success

The 24th Annual Meeting of the Aquatic Plant Management Society was held in Richmond, Virginia, July 15-18, 1984, with a theme of "Water Restoration with Aquatic Plant Management." The excellent job by now President Max McCowen provided an agenda with something for all of us, from basic aquatic botany to applied aquatic plant control. And, in the hallways, dining areas, and cocktail areas was the ever present murmuring of hydrilla's seige on the Capitol. Local arrangements as always did a superb job. At the risk of slighting previous accomplishments, I must say the banquet dinner was the best I ever had—from the beef to the cheesecake. The challenge is out for President McCowen and the 1984-85 state officers and committee chairmen to make the 25th Anniversary meeting in Vancouver the best ever. Here are the people who have been selected to serve us for 1984-85:

Aquatic Plant

Management Society

Board of Directors 1984-85

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MAX C. McCOWEN, President
Lilly Research Laboratories
Post Office Box 708
Greenfield, Indiana 46140-0708

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USDA Aquatic Weed Control Laboratory
Botany Department
University of California, Davis
Davis, California 95613

A. LEON BATES, Immediate Past President
Tennessee Valley Authority
E&D Building
Muscle Shoals, Alabama 35660



Bob Gates awarded Honorary Membership at 1984 Annual Meeting.

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Department of Chemistry
Chems Center
University of South Florida
Tampa, Florida 33620

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Post Office Box 16
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Tulsa, Oklahoma 74171

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Post Office Box 36
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Center for Aquatic Weeds
University of Florida
7922 Northwest 71st Street
Gainesville, Florida 32303

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Monsanto Company
2433 Manzanita Court
Tallahassee, Florida 32303

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Oviedo, Florida 32765

Committee Assignments

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Subcommittee (Noxious Weeds)

Carlton Layne, Chairman (813) 683-9767
Jim McGehee
Brian V. Nelson
Jeff Schardt

Awards

Members were honored for outstanding jobs done at the 24th meeting and for outstanding service throughout the years:

The *Exhibitors Excellence Award* this year went to Pennwalt Corporation.

As always the *Graduate Student Paper Contest* was excellent, and the judges wished all could have been awarded first prizes.

The results of the Tenth Student Paper Contest are:

First Place: Joseph M. DiTomaso (Botany Department, University of California, Davis), "Spikerush (*Eleocharis* spp.) as a Source of Allelopathics for the Control of Undesirable Aquatic Plants";

Second Place: Mikie Perez-Cruet (CHEMS Center, Department of Chemistry, University of South Florida), "Evidence for the Management of *Hydrilla* and *Hydrilla*-like Plants by Natural Products";

Third Place: George J. Pesacreta (Zoology Department, North Carolina State University), "Physico-Chemistry of Lakes and Reservoirs in North Carolina with Submersed Aquatic Vegetation";

Fourth Place: S. M. Harlan (Department of Biology, East Carolina University), "Macrophyte Zonation in a *Hydrilla* Community in a North Carolina Reservoir as Related to Drawdown".

Our heartfelt congratulations go out to *Bob Gates* who was awarded *Honorary Membership* at the 24th Annual Meeting.

The first ever *President's Award of the Aquatic Plant Management Society* was given to honor T. O. "Dale" Robson, our keynote speaker, for his distinguished service in Aquatic Plant Management. Following is a letter that Dale asked to be printed in the newsletter to express his gratitude for this honor.

Results of Aquatic Plant Management Society Survey

Immediate Past President A. Leon Bates initiated a survey during his presidential term to evaluate the opinions of the membership toward several issues that have arisen at business meetings and board meetings. The results of this survey will be useful for policy making. A summary of the survey appears below:

RESULTS OF AQUATIC PLANT MANAGEMENT SOCIETY SURVEY*

Based on a response of more than 40 percent of the total mailing, the following summary is offered:

1. Most of the respondents were active members and 75% had been members from 1-10 years.
2. About 20% of respondents were not chapter members.
3. About one-third of respondents rarely or never attended national or chapter meetings.
4. About one-third of respondents negative about July meeting; however, seasonal preferences indicated summer most desirable (40%) while winter and fall (about 25% each) were next preferences. Spring was the least desirable time.
5. If summer meetings continue, more than 40% prefer July while the remainder was equally split between June and August.
6. Only 10% of respondents disagreed with current meeting rotation policy.
7. More than 70% favored expansion of chapters and consider the chapters an effective regional forum.

8. Less than 15% of respondents were dissatisfied with hotels or banquet meals.
9. More than 90% considered the papers to be positive quality and about one-half were in favor of poster sessions.
10. About 50% were positive about the adoption of a Code of Ethics and Certification.
11. About 12% of respondents were negative about APMS leadership and 10% disagreed with the election process.
12. Based on responses to opinion questions, 90% of members were neutral to positive or had

no opinion (reason-recent membership) about activities of APMS, while only about 10% were negative. About one-fourth of respondents were *strongly positive* about APMS activities. The conclusion would be that current operations are satisfactory with most members.

Rating Scale

- 1 = Strongly negative
- 2 = Negative
- 3 = Neutral
- 4 = Positive
- 5 = Strongly positive
- 6 = No opinion or not applicable

T.O. "Dale" Robson
19, Fernhill Road, Begbroke, OXFORD OX5 1RP, UK

To the President, Directors and Members of the Aquatic Plant Management Society.

Dear Friends and Colleagues,

At your 1984 Conference in Richmond, you bestowed on me the greatest honour I have ever received—the President's Award of the Aquatic Plant Management Society—and I should now like to try to explain what it has meant to me.

When someone retires, he expects a farewell presentation from his Institute and perhaps a letter of appreciation from the appropriate Government Department if he is an official scientist. But to receive from the leading international society in his field its highest award is overwhelming and an honour that means so very much more than any official "pat on the back" could ever mean. It shows that his efforts over the years have been recognized and acknowledged by his own colleagues and there can be no greater accolade than this. This is what the President's Award means to me. I suppose it could be compared with winning an Oscar in the movie industry—except that this award is so much rarer and came as a complete surprise!

And so I should like to thank you all for honouring me in this way and for presenting me with the handsome plaque which always remind me of the occasion with so much pride and pleasure.

The Conference at Richmond also demonstrated again the camaraderie amongst aquatic plant scientists and the important role the Society has in promoting high scientific standards without losing the informality that nurtures friendliness and collaboration.

I was impressed too by the wide range of topics that is being attracted to the meetings. While the control of the major weeds must continue to receive a lot of attention, the role that plants play in aquatic systems—whether beneficial or adverse—establishes that the regulation of plant growth is vital to the management of all freshwater ecosystems. There is clearly a great deal yet to be done and may your Society continue to prosper and lead the way.

With best wishes
Dale Robson

IN MEMORIAM

William L. Maier passed away in Tallahassee on August 19, 1984. The courage with which Bill accepted his six year fight with cancer was exemplary of the optimism and enthusiasm with which he lived every day of his 35 years.

Bill was known to all of us for his ambitious involvement in APMS including his membership on the Board of Directors which he held at the time of his death.

His work in Aquatic plant Management began in 1972 when he moved to Ft. Lauderdale after receiving his B.S. Degree from Northeast Missouri State University. In Ft. Lauderdale he worked at the University of Florida Agricultural Research Center, conducting research on biocontrol of waterhyacinth. In 1974, he became the first Regional Botanist in the South Florida area where he was employed by the Florida Game and Freshwater Fish Commission. In 1976, he became section administrator in the Florida Department of Natural Resources where his duties included overseeing the matching grants and weed control program. In March, 1984, Bill resigned from service to the State of Florida and became a marketing specialist with Monsanto Agricultural Products in Chico, California.

Bill was a charter member of the Florida Aquatic Plant Management Society, served on its Board of Directors from 1978-1980 and was president of FAPMS in 1981-1982. *Aquatics* Magazine was conceived and developed singlehandedly by Bill in his desire to provide authentic, readable information to aquatic applicators. He was the Editor of *Aquatics* for the first two years, the difficult and formative years, of its publication (1979-1981).

We will all miss Bill. None of us will ever forget him.

APMS T-Shirts

These are a must for every wardrobe and they are still available in S, M, L, & XL from Bill Rushing.
!! only \$8.00 !!

Aquatic Person

Lou Guerra

Lou Guerra announced his retirement at the recent APMS meeting held in Richmond, VA., the 24th meeting of the Society, making us recall the first meeting which was made friendlier with Lou in attendance.

Lou was a welcome addition. Recollection has it that we were getting a little too rigid and stereotyped in our paper presentation. Lou's total disregard for format and house rules when they interfered with the objectives of presenting factual information in an interesting manner helped us all.

Lou was both an innovator and an agitator in the society affairs. He carried his weight in the society being a long-time board member through the office of newsletter editor and as President of the Society. We had an excellent meeting in San Antonio and many will remember the past meeting trip to Mexico.

He showed these same characteristics in his attempts to resolve the aquatic weed problems of the state of Texas. As for weed problems, he had them all—water hyacinth, alligator weed, water milfoil and hydrilla. Lou, always willing to listen to suggestions, cooperated with many of us in demonstration, research and experimental use programs designed to show effectiveness or generate needed operational data required to prove the effectiveness of control methods.

Like all of us, Lou had his battles with administrators, whether they were with his own department or other state departments involved in water usage. He also had his difficulties with the federal agencies, his interpretation of operational use did not always agree with the EPA, or the Corps of Engineers, another strong supporter of aquatic weed control programs. Lou did not always win—none of us do, but his efforts moved things forward.

A man is judged by his peers and the people he serves. Lou was honored on August 17 with a retirement party and barbecue dinner at



Who really sank the boat, Lou?

the Lone Star Brewery in San Antonio, TX. Here is what the local reports writer had to say: "Guerra, the past 15 years was lake improvement director, with a specialty of clearing vegetation that was choking many of the state's waters. The job he did on Mathis Lake, source of water for the City of Corpus Christi saved that city at least a million dollars. Guerra's achievements are many and his contribution to the Park and Wildlife department and to the fishermen of Texas deserves the appreciation of both. As Kemp said, "Guerra has touched our lives in many different ways."

Lou is a good fisheries biologist who made a damn good aquatic weed man. Good luck and don't lose touch.

¹ Each future newsletter will feature an outstanding Aquatic Plant Manager in "Aquatic Person." We will try to keep these biographies mostly complimentary, but *anything goes*. The article will be compiled from contributions from the membership so if you have an associate whom you wish to honor (?) in the newsletter, please send a biographical sketch and names of additional contacts.

² Director of Fisheries.

IMPORTANT DATES

January 14, 1985

Aquatic Plant Management Society Meeting of the Board of Directors—Houston, Texas

January 15-17, 1985

Southern Weed Science Society—Houston, Texas

February 6-8, 1984

Weed Science Society of America—Seattle, Washington

July 21-24, 1985

Aquatic Plant Management Society—25th Anniversary Annual Meeting—Vancouver, British Columbia

New Aquatic Weed Scientist

Kelley Nicole Thayer
Born 3:00 pm September 25, 1984

Six New Hydrilla Infestations In Western U.S.

—information provided in a letter to the editor from Nate Dechoretz

Dear Ken:

Six new infestations of hydrilla have been discovered in the Western United States. Five of the infestations are located in Arizona and one in Northern California. The Arizona infestations are located in Tucson (1 cement lined pond) and near Phoenix (4.75 ac. pond). The hydrosol from the Tucson pond has been removed. However, the Phoenix infestations will be more difficult to eradicate. A task force formed by the Arizona Agriculture and Horticulture Commission has initially recommended the use of Aquathol K plus Bevert for the control of hydrilla in these ponds. The ponds were treated in August and follow up treatments have been planned. In the meantime, Arizona officials are developing a plan to eradicate hydrilla from these ponds. Since these ponds are small and somewhat isolated, chances of success appear high.

Officials estimate that these infestations are approximately 3 years old. Luckily, the ponds do not have an outflow, thus minimizing the chance of infesting other bodies of water. The Phoenix ponds receive water from a Salt River Project canal. However, these canals are treated every 2 weeks with Acrolein and close inspection of the Salt River project canals and surrounding bodies of water have failed to turn up other infestations.

The California infestation is in Spring Lake, located in Santa Rosa, CA. The 72 acre lake is used for recreation and as a flood control reservoir. California Department of Food and Agriculture (CDFA) officials estimate that 75% of the lake is infested to some degree. CDFA has treated the lake with Koplex®. Future plans include drawdown of the lake to expose the hydrosol. This will be followed by excavation of the soil and subsequent treatment with Vapam. Similar procedures have been used with success in other ponds and lakes in CA.

The Santa Rosa infestation can be very dangerous as far as contaminating other bodies of water. Flood waters from the lake eventually empty into Russian River. Furthermore, officials are concerned that fishermen may have transported hydrilla from Spring Lake to other lakes. For instance, Lake Berryessa (Winters, CA.) is approximately 50 miles away. Plants transported to this large reservoir can easily move downstream through the Solano Irrigation District and into the Sacramento River and Delta region. From there, the California State Water project and other bodies of water that are supplied by this project can become infested. Obviously, if this occurs, the impact on California agriculture will be quite severe. Extensive survey's outside of Spring Lake have been conducted. No new infestations have been found at this time.

Sincerely,

NATE DECHORETZ
Botanist

CAST REPORT

The following is a copy of a memorandum from Dr. Charles A. Black, Executive Vice President, CAST, to the Board of Directors, APMS, relating the importance of interaction between CAST and APMS. A more detailed financial account can be obtained from W. T. Haller.

June 14, 1984

To: Board of Directors, Aquatic Plant Management Society

From: Charles A. Black

Subject: Involvement of the Aquatic Plant Management Society (APMS) in Activities of the Council for Agricultural Science and Technology (CAST), as of June 8, 1984.

This is a report on the involvement of APMS in the activities of CAST—what the involvement means to CAST and what it means to APMS. Involvement of APMS in CAST activities has two-way significance.

The scientific society members control CAST's activities. The guidance supplied by the Board of Directors, on which each member society is represented, is essential to the unity of agricultural science and the effectiveness of CAST. In a very real sense, the scientific society members are CAST. Each member con-

tributes to CAST's progress, credibility, acceptance, and prestige. The collaboration of the scientific societies in their joint endeavor in CAST has made it possible to address in their full complexity the national issues in food and agriculture, which are predominantly multidisciplinary. Additionally, the collaboration of the societies in a unified way in CAST has made it possible to develop considerable funding from sources other than the societies. These additional funds greatly extend the effectiveness of the seed money and scientific input from the societies. To date, the scientific society members have contributed in the aggregate 15.64% of the total income CAST has received. At present, the annual payments by the member societies in support of CAST cover approximately the cost of the two Board of Directors meetings held each year.

At the same time, membership in CAST is beneficial to member societies, whose individual members participate in CAST projects. As professionals, many individual members of scientific societies are of the opinion that their disciplines make a significant contribution to the national welfare, and they desire to have their expertise used in the public interest to make known the scientific background of national issues to which

their disciplines are relevant. This probably is the principal reason that individuals support the membership of their respective societies in CAST. Beyond this altruistic objective may lie also a certain amount of long-range self-interest in bringing to the attention of decision-makers and opinion-leaders the contribution to the public welfare that is made by their individual branches of science, thereby justifying further public support.

The value of CAST to member societies in terms of addressing these objectives cannot be assessed in quantitative terms. Certain aspects of the process by which the objectives are addressed can be measured, however, and the analyses supplied herewith provide such an assessment.

The attached analyses show that persons recommended by APMS have been members of three task forces that have produced publications. APMS participants are also involved in three other task forces that are still at work.

APMS's payments (totaling \$2,159.80) in support of CAST activities are equivalent to 0.09% of CAST's expenditures. The total cost of the pages in all publications to which APMS participants have contributed has been \$63,020.

(Continued on next page)

CAST REPORT

(Continued)

Scientific Involvement
of the
AQUATIC PLANT MANAGEMENT SOCIETY
in Activities of the
COUNCIL FOR AGRICULTURAL SCIENCE AND TECHNOLOGY

Task forces in which the Aquatic Plant Management Society has participated

Report 95. Water Use in Agriculture: Now and for the Future. September 1982. 28 pages. (APMS participant: George E. Allen)

Report 100. Acid Precipitation in Relation to Agriculture, Forestry, and Aquatic Biology. June 1984. 31 pages. (APMS participant: Donald L. Riemer)

Special Publication 9. CAST-Related Excerpts From U.S. House of Representatives Hearing on the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). February 1982. 79 pages. (APMS participant: William T. Haller)

Active task forces in which the Aquatic Plant Management Society is participating

Aerial application of pesticides. (APMS participant: Harold F. Brown)

Agricultural contamination of groundwater. (APMS participant: Richard Back)

Introduction and dissemination of plant and animal pests. (APMS participant: David L. Sutton)

Aquatic Reading List

Free Subscription Announces

New Government Publications

You can get a free bimonthly listing of all new and revised Government books and periodicals for sale by the US Government Printing Office. Entries (including Government research reports, Census data, law and regulations, economic and labor statistics, reference works, grant information, and energy production and consumption compilations) are arranged alphabetically by subject. Each issue includes an order form. To be placed on the mailing list to receive New Books without charge, write to: New Books, US Government Printing Office, Stop: MK, Washington, DC 20401. Say you saw it here.

Introduction to Freshwater Vegetation

by Donald N. Riemer

New Text Provides Comprehensive Treatment of Freshwater Plants

Introduction to Freshwater Vegetation by Donald N. Riemer is the only textbook on aquatic vegetation. It will be helpful also to those in water and aquatic plant management.

The book is available through booksellers everywhere, or from AVI Publishing Company, P.O. Box 831, 250 Post Road East, Westport, CT 06881. for \$35.

Herbicide Handbook

The Weed Science Society of America, a US-Canadian society, announces the publication of the Fifth Edition of the *Herbicide Handbook*. The 515-page handbook contains technical information on 138 herbicides, desiccants and growth regulators. Chemical and

physical properties, physiological and biochemical behavior, toxicological properties, synthesis and associated information on all compounds has been reviewed and revised. Twelve new compounds were added since publication of the Fourth Edition in 1979. The handbook contains sections on terminology, conversion factors, references, Advanced Wiswesser Line Notation, manufacturers, tradenames . . . and more. The handbook is designed principally for researchers and educators in agricultural and biological sciences.

The *Herbicide Handbook* is available at US\$10 per copy (remittance to accompany all orders) from the Weed Science Society of America, 309 West Clark Street, Champaign, IL 61820.

Call for Papers For APMS Symposium on Myriophyllum

As most of you are aware, the APMS is sponsoring a symposium on watermilfoil and related species at the Vancouver meeting, July 23, 1985. This will be an extremely interesting and informative addition to our regular annual meeting. U.S., Canadian and other scientists of international renown will participate. The tentative program is given below.

At this time I am requesting titles and abstracts of "Contributed Papers" to be given at the Milfoil symposium in the fields listed in IV and V of the accompanying program. (Physiology and Reproduction and Management Strategies). Presentation time will be 12 minutes. As with the invited papers, those who contribute papers are requested to have draft manuscripts *at the meeting time* since review and publication of manuscripts will be done through APMS as a special "Proceedings" issue of our journal. Follow the standard format for titles and abstracts for the general meeting. If you have questions, contact me at (916) 752-6260.

LARS W.J. ANDERSON
President-Elect and
Chairman 1985 Meeting and Milfoil Symposium

TWENTYFIFTH ANNIVERSARY MEETING
of the
AQUATIC PLANT MANAGEMENT SOCIETY
Vancouver, British Columbia

FIRST CALL FOR PAPERS
1985 Annual Meeting
THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.

You are invited to submit a title for a paper to be presented at the 1985 annual meeting of the Aquatic Plant Management Society, Inc., to be held July 21-25 at the Hotel Vancouver, Vancouver, British Columbia, Canada. Type title, authors, organization and location, exactly the way they are to appear on the program. If more than one author is listed, place an asterick after the name of the author who is to present the paper. Fifteen minutes will be allowed for each presentation. Projection equipment for 35 mm slides will be provided. Special requests for additional time or specialized projection equipment should be directed to the Program Chairman and will be considered on the merits of the individual request.

(PLEASE DETACH AND RETURN)

Title _____

Author(s) _____

Organization _____

Address _____

Abstract (75 words or less)

Submit titles to: Dr. Lars W. J. Anderson
USDA Aquatic Weed Research
Botany Department
University of California
Davis, CA 95616

Submit titles for Student papers to:
Dr. D. F. Martin
Department of Chemistry
University of South Florida
Tampa, FL 33620

**Twentyfifth Meeting of The
Aquatic Plant Management
Society**

Tuesday, July 23, 1985
**Hotel Vancouver, Vancouver,
British Columbia, Canada**

**INTERNATIONAL
SYMPOSIUM ON
WATERMILFOIL
(*Myriophyllum spicatum*) and
RELATED HALAGORACEAE
SPECIES**

- I. Introduction
 - A. Recognition of invited speakers
 - B. Announcements.

Invited Papers:

- II. Natural History and Taxonomy of Problem *Myriophyllum* Species.
 - A. Worldwide Distribution and Taxonomy
 - B. Biology and Ecology of *Myriophyllum spicatum*
 - C. Biology and Ecology of *Myriophyllum aquaticum*
- III. Impacts of *Myriophyllum* species on Water Resources.

Invited Papers:

- A. Canada
 - B. USA
 - C. Europe
 - D. Australia
 - E. S. America
- Break

Contributed Papers:

- IV. Physiology and Reproduction
 - A. Reproduction
 - Photosynthesis
 - Growth and Nutrition
 - V. Management Strategies
 - A. Chemical
 - B. Mechanical/Harvesting
 - C. Utilization
 - D. Biological
 - VI. Future Research Needs—Panel Discussion Group
- End of Symposium

**The Aquatic Plant
Management Society, Inc.**

The Aquatic Plant Management Society, Inc., is an international organization of scientists, educators, administrators, and concerned individuals interested in the management and control of aquatic plants. The membership reflects a diverse collection of Federal, state, and local agencies; researchers, professors, and students from universities and colleges around the world; corporations; commercial applicators; and others dedicated to promoting research and sharing information about aquatic plants and the technology of aquatic plant management.

Originally called The Hyacinth Control Society, Inc., when founded in 1961, The Aquatic Plant Management Society, Inc., has evolved into a respected source of expertise in the aquatics field. The Society has grown to include several regional or state chapters; and through these affiliates, annual international meetings, newsletters, and the *Journal of Aquatic Plant Management*, members keep abreast of the latest developments in biological, mechanical, chemical, and integrated methods of aquatic plant management and control.

APPLICATION FOR MEMBERSHIP

There are three regular classes of membership available upon application made in accordance with the Charter adopted in 1961. These classes are:

- A. Active Membership\$ 25.00
- B. Student Membership 5.00
- C. Commercial Sustaining Membership 200.00

Name of Applicant _____ Spouse's Name _____

Home address * _____ Zip Code _____

Present title & Employer _____

Business Address * _____ Zip Code _____

Business Telephone _____ Home Telephone _____

Amount of Remittance \$ _____ Signature of Applicant _____

Membership Type: ACTIVE ____; COMMERCIAL SUSTAINING ____;

STUDENT ____; SUBSCRIPTION ____.

*Please indicate address to be used by our business office

THE AQUATIC PLANT MANAGEMENT SOCIETY, INC.
PO BOX 16
VICKSBURG, MS 39180