

# American Horticulturist



The Conservatory of Flowers in Golden Gate Park, erected in 1877, is said to be patterned after the royal greenhouses in England's Kew Gardens.

San Francisco Convention and Visitors Bureau

**F**or centuries people have attempted to make their surroundings more beautiful by trying many things, from completely controlling plants to allowing the free expression of nature undisturbed. Often, these efforts have been made at the expense of our environment. We have found that our natural resources are not limitless. Unity with nature is a necessity if we and future generations are to enjoy both the beauty and bounty of our land.

At the 41st Annual Meeting of the American Horticultural Society in San Francisco, horticultural experts will help us learn what is happening in plant conservation, both nationally and internationally; how edible landscaping can be effectively used to combine beauty, food production and environmental conservation; and about the inspiration of nature in oriental gardening and its influence on American horticulture.

Join us in San Francisco as we borrow from the past and look to the future while exploring "Beautiful and Bountiful: Horticulture's Legacy to the Future." For more information turn to page 20.

# AHS Board of Directors Election

American Horticultural Society members are hereby notified that the Society's Annual Meeting will take place at the Fairmont Hotel in San Francisco, California on Thursday, August 14, 1986 at 8:30 a.m.

At this meeting, 10 directors will be elected for three-year terms. All members in good standing are eligible to vote. If you cannot be present, please sign and return the attached proxy.

**Mr. Richard C. Angino** (Incumbent). A senior partner in the Harrisburg, Pennsylvania law firm of Angino & Rovner, Mr. Angino is a member of the American Rhododendron Society, the American Association of Nurserymen and the Pennsylvania Horticultural Society.

**Dr. Gerald S. Barad** (Incumbent). A founder of the New York Cactus and Succulent Society, Dr. Barad has had a life-long interest in plants. He maintains a large collection of succulents in his 3,000-square-foot greenhouse in Flemington, New Jersey. Dr. Barad is an elected member of the International Organization for Succulent Plant Study and a board member of the Cactus and Succulent Society of America.

**Mr. Richard J. Hutton** (Incumbent). Mr. Hutton is President of Conard-Pyle Company, producers of Star Roses, and is active in All-America Rose Selections. He is currently President-elect of the American Association of Nurserymen. Mr. Hutton received the Pennsylvania Nursery-

man of the Year Award in 1985.

**Mrs. John M. Maury** (Incumbent). An active member of the Garden Club of America and the Garden Club of Virginia, Mrs. Maury has served as a Vice President of both organizations. She also has been Secretary and Second Vice President of the American Horticultural Society.

**Dr. Julia W. Rappaport** (Incumbent). Dr. Rappaport holds a doctorate in education from the University of Southern California. She has developed gardening and botany programs for elementary and high school students, and conducts gardening science seminars for teachers. She is a member of several plant societies in Orange County, California, and is a lecturer at California State University, Fullerton.

**Mrs. Harry J. Van de Kamp** (Incumbent). An active supporter of Descanso Garden in Los Angeles County, California, Mrs. Van de Kamp was responsible for raising over one million dollars for the garden's new education and exhibition building. She is treasurer of the American Horticultural Society and board member of both the Pacific Horticultural Society and Descanso Gardens.

**Dr. Henry M. Cathey**. Dr. Cathey is currently Director of the U.S. National Arboretum in Washington, D.C. Widely recognized as a horticultural expert, he has appeared on several talk shows, and has a weekly two-hour radio show on gardening and environmental education. He has received numerous horticultural awards, most notably from the Society of American Florists, the American Society for Horticultural Science, the Garden Club of America, Inc., and the American Horticultural Society. Dr. Cathey served as President of AHS from 1974 to 1978.

**Mr. Stephen F. Keating**. Mr. Keating retired as Vice Chairman of the Board of Directors of Honeywell, Inc., in June of 1980, and worked as Chairman and President of that organization for many years. He now serves on the Board of Directors of several companies, including General Mills, Inc., PPG Industries, Donaldson Company, Economics Laboratory and Inc., Ltd. Keating is also Chairman of the Executive Committee of the Toro Company, as well as a member of

the Board of Trustees of the University of Minnesota Foundation and President of the Minnesota Landscape Arboretum Foundation.

**Mr. Roy G. Thomas**. As Director of Horticulture for Rockresorts, Inc., Mr. Thomas oversees the landscaping and maintenance of several resort properties developed by Laurance S. Rockefeller and managed by Rockresorts. A specialist in tropical resort gardening, Mr. Thomas is former superintendent of parks for the city of Hamilton, Bermuda. He also is former Chairman of the American Hotel and Motel Association's Committee for a Quality Environment.

**Mrs. Jean V. Woodhull**. Mrs. Woodhull has been active on several boards and committees aimed at increasing the beauty of her town—Dayton, Ohio. She was a founding board member, and later President, of Cox Arboretum. Mrs. Woodhull is active in the Garden Club of America and has been involved in highway planting projects.

## PROXY

### Notice of Election in conjunction with the 41st Annual Meeting of the American Horticultural Society

(Cut proxy and return to Secretary, AHS, PO Box 0105, Mount Vernon, VA 22121.)

I will not be able to attend the Annual Meeting of the American Horticultural Society on Thursday, August 14, 1986. Please assign my proxy to AHS Secretary Mrs. Charles W. Allen, Jr. or

to cast my ballot in the annual election of the Society's Board of Directors as follows (vote for 10):

- Mr. Richard C. Angino
- Dr. Gerald S. Barad
- Mr. Richard J. Hutton
- Mrs. John M. Maury
- Dr. Julia W. Rappaport
- Mrs. Harry J. Van de Kamp
- Dr. Henry M. Cathey
- Mr. Stephen F. Keating
- Mr. Roy G. Thomas
- Mrs. Jean V. Woodhull

Write-In Candidate

Write-In Candidate

and to cast my ballot in other matters that may properly be brought before the Annual Meeting with the same effect as though I were personally present.

Date

Signature

## An Explanation for our Members

The Society is conducting a major direct-mail campaign in May, in order to reach gardeners who are not already members. We are using lists obtained from other non-profit gardening and conservation organizations for this mailing. A computer merge-purge of the Society's membership list against the borrowed lists will be conducted; however, this procedure is not 100 percent effective in preventing duplications. So, if you receive a request to join the American Horticultural Society when you are already a member in good standing, please ignore it!

Or, better yet, if you would like to

help us in our efforts to enhance the Society's growth, simply pass the information along to a friend who might be interested in joining. We will be happy to send a complimentary issue of *American Horticulturist* and other information about the Society to your friends and neighbors at their request.

Although we can't ensure that you won't receive a membership solicitation from us, we *can* ensure that we won't exchange your name with other organizations in the future. Just write to Sallie Hutcheson, in care of the Society, and ask that the use of your name be restricted.

## 1987 Awards Nominations Sought

Members are once again invited to recommend candidates for the Society's awards, to be presented at the 1987 Annual Meeting in New York, New York, May 13-16. The Awards and Citations Committee will meet in October to nominate individuals and organizations for the Society's various awards, and welcomes suggestions from the general membership. The Committee will be determining a roster of candidates for the Liberty Hyde Bailey Medal, the G. B. Gunlogson Award, the Catherine H. Sweeney Award and the various Citations.

The Liberty Hyde Bailey Medal is the highest award the Society can bestow on an individual. To qualify for this award, an individual must reside on the North American continent and must have made significant contributions in at least three of the following areas of horticultural activity: teaching, research, writing, plant exploration, administration, art, business and leadership.

The G. B. Gunlogson Award is given to an organization or individual whose creative use of home gardening has benefited people-plant relationships and the future of plants in American life. The Catherine H. Sweeney Award is given in recognition of extraordinary and dedicated efforts in the field of horticulture.

Citations are awarded to individuals, firms or institutions that have accomplished something unusual and

of national importance in one of the following ten areas of horticulture: scientific, commercial, professional, teaching, landscape architecture, horticultural writing, horticultural therapy, local horticulture (in the Annual Meeting host city), meritorious service and urban beautification.

If you would like to suggest nominations for any of these categories, please forward the name(s) of your nominee(s) and pertinent biographical information to the Awards Committee Chairman, in care of the Society, no later than October 1.

## Board Nominations

Suggestions of nominees for the Society's Board of Directors, to be elected during the 1987 Annual Meeting in New York, New York (May 13-16), will be accepted until October 1, 1986.

Members are encouraged to submit names to the Nominating Committee, which was appointed by AHS President Edward N. Dane. Suggestions should be accompanied by résumés detailing the candidate's horticultural and/or professional interests, and should be addressed to the Nominating Committee in care of the Society.

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# Gardener's Dateline

**MAY 3-4**

## The Brandywine Conservancy's Wildflower Plant & Seed Sale

The Brandywine River Museum, Chadds Ford, Pennsylvania. Information: The Brandywine Conservancy, PO Box 141, Chadds Ford, PA 19317, (215) 388-7601 or 459-1900.

**MAY 5**

## The Accokeek Foundation's Seed Saving Workshop & Seminar

The National Colonial Farm, Accokeek, Maryland. Hours: 8 a.m.-4:30 p.m. Information: Mary Ann Klein, Staff Horticulturist, National Colonial Farm, c/o Seed Saving Seminar, 3400 Bryan Point Road, Accokeek, MD 20607, (301) 283-2113.

**MAY 7-28**

## Late Blooming Season Walks

Rhododendron Species Foundation, Federal Way, Washington. Hours: Sundays, 1 p.m. to 5 p.m.; Wednesdays, 10 a.m. to 3 p.m. Admission: Adults, \$2; Children under 12, free; RSF members, free. Information: Rhododendron Species Foundation, PO Box 3798, Federal Way, WA 98063, (206) 838-4646 (Seattle) or (206) 927-6960 (Tacoma).

**MAY 9-11**

## Wintergreen's Spring Wildflower Symposium

Wintergreen, Virginia. Registration: \$25. Information: Wintergreen Resort, Wintergreen, VA 22958, (804) 325-2200.

**MAY 10-11**

## Wrenwood's Herb & Perennial Weekend

Berkeley Springs, West Virginia. Information: Flora M. Hackimer, Route 4, Box 361, Berkeley Springs, WV 25411, (304) 258-3071.

**MAY 11**

## American Horticultural Society Spring Open House

River Farm, 7931 E. Boulevard Drive, Alexandria, Virginia. Hours: 11 a.m. to 4 p.m. Admission: Members, \$2; Non-members, \$3; Children under 12, free. Information: American Horticultural Society, Department of Horticulture, PO Box 0105, Mt. Vernon, VA 22121, (703) 768-5700.

**MAY 15-17**

## Mordecai Garden Symposium

Mordecai Historic Park, Raleigh, North



**The historic William Paca House (circa 1765) in Annapolis, Maryland, will be the setting for the annual Roses and May Flowers Day on May 29. Roses and other flowers known to bloom in eighteenth-century gardens will be featured in the house's two-acre, terraced gardens, and period flower arrangements will grace the rooms of the house. Two lectures are scheduled, and lunch will be served; reservations for both are recommended.**

M. E. Warren

Carolina. Information: The Mordecai Square Historical Society, 1 Mimosa Street, Raleigh, NC 27604, (919) 834-4844.

**MAY 16-18**

## Conference—Plant Conservation Strategies: Options for the Future

The Holden Arboretum and Lakeland Community College, Mentor, Ohio. (Sponsored by The Center for Plant Conservation, Boston, Massachusetts.) Information: Education Department, The Holden Arboretum, 9500 Sperry Rd., Mentor, OH 44060 (216) 946-4400.

**MAY 16-18**

## Second Symposium on Old Roses

University of California Botanical Garden, Berkeley, California. Information: Old Rose Symposium, UC Botanical Garden, Centennial Dr., Berkeley, CA 94720.

**MAY 21-25**

## 1986 World Bromeliad Conference

Fairmont Hotel, New Orleans, Louisiana. Information: Mr. Jack Grubb, President, The Greater New Orleans Bromeliad Society, 10008 Hyde Place, River Ridge, LA 70123, (504) 737-8420.

**MAY 21-25**

## American Rhododendron Society National Convention

Holiday Inn, Rockside, Cleveland, Ohio. Information: Howard Ruppender, 1415 Marview Drive, Westlake, OH 44145.

**MAY 25-28**

## National Council of State Garden Clubs Annual Convention

Westin-Chicago Hotel, Chicago, Illinois. Information: Mrs. Robert A. Kelly, Chairman, 8129 Long Avenue, Skokie, Illinois 60077, (312) 677-6862.

**MAY 29**

## Roses & May Flowers Day

The William Paca House & Garden, Annapolis, Maryland. Hours: 10 a.m. to 5 p.m. Information: Elaine Reed, William Paca Garden, 1 Martin Street, Annapolis, MD 21401, (301) 267-6656 or 269-0601.

**JUNE 4-7**

## Council on Botanical & Horticultural Libraries Annual Meeting

Rancho Santa Ana Botanic Garden, Claremont, California. Information: Beatrice M. Beck, Rancho Santa Ana Botanic Garden, 1500 N. College Avenue, Claremont, CA 91711, (714) 625-8767.

**JUNE 13-15**

## American Peony Society National Convention and Exhibition

Apache Plaza, St. Anthony, Minnesota. Registration: \$12. Information: Greta M. Kessenich, Chairman, (612) 938-4706.

**JUNE 14**

## New England Wild Flower Society Annual Plant Sale

Garden in the Woods, Framingham, Massachusetts. Hours: 10 a.m.-2 p.m. Information: Barbara F. Pryor, Garden in the Woods, Framingham, MA 01701, (617) 877-6574 or 877-7630.

**JUNE 18-19**

## The Garden Club of Virginia's Annual Lily Show

Conference Center, Old Colony Inn, Alexandria, Virginia. Hours: Wednesday, 3 p.m.-8 p.m.; Thursday, 10 a.m.-3 p.m. Information: Mrs. John Voorhees, 2109 Wakefield Court, Alexandria, Virginia 22307, (703) 329-5833.

**JUNE 25-28****American Association of Botanical Gardens and Arboreta Annual Meeting**

Honolulu, Hawaii. Information: Yoneo Soga, Local Arrangements Committee Chairman, Lyon Arboretum, University of Hawaii, Honolulu, HI 96822, (808) 988-3177.

**JUNE 30-JULY 2****Conference: "Floriculture 2000: The Role of University"**

Cornell University, Ithaca, New York. Information: Robert Langhans, 15-D Plant Science Building, Cornell University, Ithaca, NY 14853.

## *Upcoming AHS Events*

The following Society-sponsored events have been scheduled. Unless otherwise noted, all events will take place at the Society's headquarters, River Farm, which is located at 7931 East Boulevard Drive in Alexandria, Virginia. For more information on any of these events, please write or call the Society.

**May 11****Spring Open House**

Hours: 11 a.m. to 4 p.m. Admission: AHS Members \$2, Non-members \$3.

**June 21****Daylily/Lily Day**

Hours: 10 a.m. to 4 p.m. Admission: AHS Members \$1, Non-members \$2.

**August 13-16****AHS Annual Meeting**

San Francisco, California.

**September 6**  
**Dahlia Day**

Hours: 10 a.m. to 4 p.m. Admission: AHS Members \$1, Non-members \$2.

**October 5****Autumn Festival**

Hours: 11 a.m. to 4 p.m. Admission: AHS Members \$2, Non-members \$3.

**December 13****Christmas Open House**

Hours: 10 a.m. to 4 p.m.

**May 13-16, 1987****AHS Annual Meeting**

New York, New York.

**JULY 2-5****American Gloxinia & Gesneriad Society Annual Convention**

Clarion Hotel, Denver, Colorado. Information: Karen Wagner, Registrar, 9064 Fayette St., Denver, CO 80221.

**JULY 4-10****Summer Course: "The Protection and Conservation of Historic Landscapes, Parks & Gardens"**

West Dean House, Sussex, England. Information: The Conference Organizer, West Dean College, West Dean, Singleton, Nr. Chichester, West Sussex PO18 0QZ England.

**JULY 9-13****International Bonsai Congress**

The Shoreham Hotel, Washington, DC.

Information: Molly Hersh, 102 Devon Court, Silver Spring, MD 20910, (301) 589-3725.

**JULY 10-12****Geranium & Pelargonium Society Conference**

Floral Hall of Van Dusen Botanical Gardens, W. 37th Avenue & Oak Street, Vancouver, BC, Canada. Admission: \$35. Information: Mr. Ian Gilliam, 4040 W. 38th Avenue, Vancouver, BC, Canada V6N 2Y9, (604) 266-6318.

**JULY 21-25****Perennial Flowers Course**

Longwood Gardens, Kennett Square, Pennsylvania. Cost: \$155. Information: Longwood Gardens, Education Department, PO Box 501, Kennett Square, PA 19348, (215) 388-6741, ext. 516.

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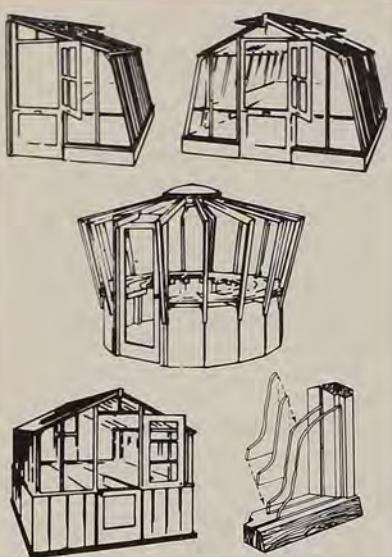
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## Attn: Seed Program Participants

Anyone who would like to share his or her AHS Seed Program experiences of this year (or of past years) with fellow members is invited to send pictures and information to the Associate Editor, American Horticultural Society, Box 0105, Mount Vernon, VA 22121. We would like to include an article with your pictures

and comments in a future issue of *American Horticulturist* magazine or News Edition. Pictures should be in the form of black-and-white photographs or slides. The deadline for submission of these materials is September 1; materials will be returned if a self-addressed, stamped envelope is provided.

## Garden Program Promoted

The Planting Council, a major non-profit organization representing all segments of the lawn and garden industry, is involved in a national campaign to help build awareness of and increase local funding for *The Victory Garden*, the popular "how-to" public television series on gardening.

Charles H. McColough, President of the Planting Council, explained his organization's support for the program: "We feel *The Victory Garden* serves as a vital link between the lawn and garden industry, horticultural and gardening experts and the consumer." He added that the show "... has evolved through the past ten years into a series which offers complete gardening information to today's consumer." According to McColough, "It is important that the lawn and garden industry support a television program that serves as a catalyst for the sales of so many products and services we offer to the public."

Like all syndicated programs, *The Victory Garden* relies on public popularity and support from local companies in order to keep it "on the air" of the Public Broadcasting System (PBS). John Pelrine, Series Producer of *The Victory Garden* at WGBH-TV in Boston, explained, "Since every public television station relies totally on public donations or funding from local companies in order to operate, they have to determine which programs will be best received by their audience."

The Planting Council's campaign focuses on two audiences: public television stations and the lawn and garden industry. A letter and information packet were mailed early this year to every public television station program manager or development

director responsible for selecting and funding programs for the 1986 season. The names and addresses of potential underwriters of the program—local retailers, nurseries and trade associations—were provided. Next, The Planting Council encouraged its member firms to consider providing underwriting for *The Victory Garden* on their local PBS stations. "Underwriting" is similar to advertising on a commercial television station, except that the underwriter does not buy a specific block of time. Local underwriters of *The Victory Garden* receive a program credit at the beginning and the end of each program, along with the credits for national underwriters.

"By helping public television stations understand the popularity of gardening and assisting them in educating the local lawn and garden retailers about underwriting *The Victory Garden*, both sides will benefit," stated McColough.

If the promotional program is a success, gardeners across the country who watch the show could stand to benefit the most. In fact, gardeners need not passively await the outcome of the promotion. If you enjoy watching *The Victory Garden* and would like to see it continue on the air of your local public broadcasting station, write or call that station and pledge your support with a donation. For your information, The Planting Council has prepared a national directory of all public stations that currently telecast *The Victory Garden*, including the days and times the program is aired. The directory may be obtained by writing to The Planting Council, Post Office Box E, Bedford, MA 01730, or by calling (617) 275-3112.



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## Join Us in San Francisco!

For the 41st Annual Meeting of the American Horticultural Society August 13-16, 1986

"Beautiful & Bountiful: Horticulture's Legacy to the Future" & Looking Ahead—

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# Books for Gardeners

We have received so many wonderful books for review in the past few months that we can't fit them all in the "Book Review" section of the magazine! The following reviews provide a "taste" of those titles we just had to share with our readers.

history in a single volume.

*The House of Bougs*, which concludes with a list of suppliers and a bibliography, provides an endless supply of ideas for those involved with the many aspects of garden design. It is also a fascinating collection of illustrations that will intrigue the garden historian.

**The History of Gardens.** Christopher Thacker. University of California Press. Berkeley, California. 1985. 288 pages; softcover, \$16.95. AHS member price, \$13.55.

Although this book has been available since 1979 in hardcover, individuals with an interest in garden history will be pleased to know the paperback edition is now available. Thacker begins with the history of gardening in the Persian and Islamic traditions as well as in China and Japan. The majority of the book, however, is devoted to the history of gardening in the West. Chapters are devoted to Medieval gardens, the Renaissance gardens of Italy, France and England, the various formal garden traditions and the gardening movements during the 18th and 19th centuries. A final chapter, devoted to the modern garden, begins with a discussion of the influence of Gertrude Jekyll and William Robinson and ends with a look at 20th-century gardens.

## Books For Cooks

**The New American Vegetable Cookbook.** Georgeanne Brennan, Isaac Cronin and Charlotte Glenn. Aris Books. Berkeley, California. 1985. 318 pages; hardcover, \$24.95; softcover, \$14.95. AHS member price, \$19.60 (hardcover); \$11.75 (softcover).

Whether you are planning to grow a selection of unusual vegetables in your garden this season, or you are simply fascinated with the ever-growing selection of fresh vegetables popping up at grocery stores and vegetable stands, this book will help make your first experience preparing anything from fennel to shelling beans to Ceylon spinach a success. The authors have collected recipes for over

## Garden History and Restoration

**The House of Bougs: A Sourcebook of Garden Designs, Structures, and Suppliers.** Elizabeth Wilkinson and Marjorie Henderson, editors. Viking Penguin. New York, New York. 1985. 226 pages; hardcover, \$35.00. AHS member price, \$33.25.

Anyone who has ever been interested in any form of garden ornament—be they historian, garden restorer, landscape designer or home gardener—will appreciate this fascinating book. *The House of Bougs* is essentially a picture book; it contains black-and-white photographs and drawings of hundreds of different styles of garden ornaments. The book covers such diverse features as apiaries, arbors, basins, boat houses, bridges, fences, gazebos, paving, sculpture, sundials and tree houses. The entry for lighting, as a typical example, contains photographs of both modern lighting fixtures for home gardens and traditional street lamp designs, as well as photographs and illustrations of Japanese stone lanterns. In all, 28 pages are devoted to fences alone; the book contains illustrations and photographs of many different bamboo, close board, latticework, metal, open board, picket, post and rail and wattle fences.

The photographs are grouped according to topic, and the book is organized in encyclopedia format. Each group of illustrations is accompanied by brief explanatory captions that provide interesting insight into the development of garden ornament. By combining photographs with reproductions of drawings and etchings, the editors have been able to represent seven centuries of garden

60 vegetables ranging from the very common to the unusual. (Recipes for several different types of mushrooms are included also.)

Gardeners will appreciate that the vegetables are organized according to botanical families. In addition to at least one recipe for each vegetable, there is a brief introductory discussion of the traditional uses of the plant. Information on availability, other common names, how to identify the peak of freshness and how to prepare each vegetable is also provided.

Lovely line drawings accompany each chapter, and an illustrated index, useful for identifying the various kinds of vegetables in the supermarket, is also included. Rounding out the book are a botanical glossary and sections with tips on buying and handling vegetables, cooking methods and the use of special ingredients.

**A Cook's Garden.** Jan Mahnken. Countryman Press. Woodstock, Vermont. 1985. 195 pages; softcover, \$12.95. AHS member price, \$10.35.

This is a book about both gardening and cooking. Jan Mahnken has

woven cultural tips, recipes and folklore about garden plants into a delightfully written narrative about running her own kitchen garden. In chapters with titles such as "Rhubarb's Up," "The Early Garden," "Summer Delights" and "A Side Trip to Fruits and Berries," the author presents her comments and insight on family food gardens throughout the seasons. She also passes on some delicious-sounding, no-fuss recipes for garden produce, including "Fennel au Gratin," "Blackberry Wine," "Zucchini Fritata" and "Rhubarb Meringue Pie." A general index makes the recipes and cultural comments easily accessible for reference. *A Cook's Garden* will entertain any gardener, and will especially provide insight and enjoyment for anyone who gardens for food.

**The Forgotten Art of Flower Cookery.** Leona Woodring Smith. Pelican Publishing Company. Gretna, Louisiana. 1985. 180 pages; hardcover, \$10.95. AHS member price, \$8.75.

Anyone who has ever searched for a recipe that calls for daylily blos-

soms, or who has wondered how to cook chrysanthemums or marigolds, will be pleased that this book is once again available. First published in 1973, *Flower Cookery* contains recipes for using the blossoms of 25 common garden plants. In addition to providing a bit of the folklore relating to the various flowers, the author has also included tips on preparation and harvesting. (I was relieved to find out that daylily blossoms are best used the day *after* they flower; I have always hesitated to sacrifice the unopened buds to the skillet.)

The author has included a wide range of recipes (such as "Carnation-Strawberry Jam," "Daylily Tempura," "Elder-flower Duck," "Marigold Quiche," "Nasturtium Sauce" and "Rose Trifle") to tempt the experimental cook. This book will certainly help you add a unique touch to your cooking, and it will also provide a new avenue for enjoying your flower garden.

To order any of the above titles, please use the coupon on this page, or write to Robin Williams in care of the Society.

—Barbara W. Ellis

## Book Order Form

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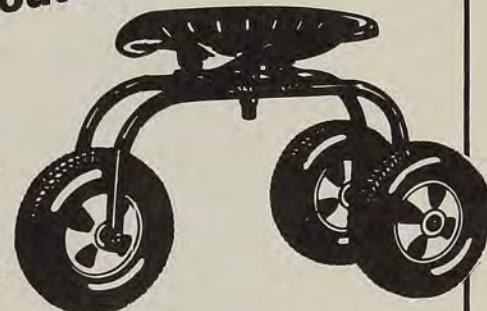
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# AHS

## Travel Program

The American Horticultural Society is sponsoring an exciting program of horticultural explorations for the 1986 season. Plan to join fellow AHS members on one or more of these exciting garden-related tours.

**Switzerland and Northern Italy** (July 11-25). Travel to the scenic Italian Lake district, and visit gardens along Switzerland's Lake Lugano as well as beautiful Lake Maggiore. We will visit Villa Carlotta with its wonderful terraced gardens and see the sights of St. Moritz. Participants will learn about alpine plants while crossing the Julier Pass to Lucerne, and on the way to Interlaken. Don't miss this opportunity to enjoy some of Europe's most breathtaking scenery.

**In Search of Gertrude Jekyll** (July 24-August 7). Learn about the remarkable partnership between Gertrude Jekyll and Sir Edwin Lutyens, which produced some of England's finest gardens and had a lasting impact on garden design the world over. Tour homes and gardens by Jekyll and Lutyens such as Little Thackham, Millmead, Munstead Wood and Hestercombe. We will also visit Hidcote, Kiftsgate and Cliveden. Join tour leader Mac Griswold, a garden writer and historian who is working on a book about garden images for the New York Metropolitan Museum, for a fascinating tour.

**Fall England** (September 10-25). Enjoy England's least spoiled and loveliest areas on this tour of the counties of Essex, Suffolk, Norfolk and Cambridgeshire. We will visit some of this country's finest gardens, including Harlow Carr, Sandringham, Stourhead and the Cambridge Botanical Garden.

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- Switzerland and Northern Italy
- In Search of Gertrude Jekyll
- Fall England

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MAIL TO: Harriet Sweeney, American Horticultural Society, PO Box 0105, Mount Vernon, VA 22121.

## New Publications



### • The Wildflower Meadow Book.

The American Horticultural Society is pleased to announce its endorsement of this useful and informative guide to meadow gardening! Author Laura C. Martin spent more than two years researching and writing this book, which explains how to plan and maintain a meadow of wildflowers and native grasses. Included within the book are lists of suitable flower species, helpful regional organizations, seed companies and nurseries. Also, 150 species of wildflowers are described in detail, and the author has included information on growing range, natural range, cultural requirements and propagation methods. Geographic regions and their weather problems, soils and growing conditions; dates of planting and even weed problems are considered.

Look for an upcoming book review in the June issue of *American Horticulturist*. *The Wildflower Meadow Book* is available at the AHS member price of \$17.05 (hardcover) or \$11.65 (softcover). To order, write to Robin Williams in care of the Society.

### • The Prison Garden Book.

This book by Nancy Flynn is another in the long line of helpful, "how-to" gardening books published by the National Gardening Association. *The Prison Garden Book* is designed for America's correctional administrators and inmates, and is full of information on creating and managing successful prison garden programs. The author has drawn from case studies of prison gardens from every region in the country. Prison gardens, which are really community gardens within confines, deliver all of the benefits of regular community gardens. According to the National Gardening Association, the "positive life skills" pris-

oners learn through gardening may one day benefit all of society.

*The Prison Garden Book* is available for \$10.95, including postage and handling, from the National Gardening Association, Dept. PG, 180 Flynn Avenue, Burlington, VT 05401.

**• Bedding Plants III**, the third edition of the Penn State Bedding Plants Manual, is a practical reference book covering all aspects of bedding plants as a greenhouse crop, from production management techniques to marketing methods. The book's 31 chapters were written and updated by 41 experts in various aspects of bedding plants. Marketing and merchandizing techniques are given more emphasis in this edition, and information on disease, insect and weed control is updated to include the latest chemical treatment and preventative measures. New developments in bedding plant production, such as plug culture, also are included.

Copies of this book may be ordered for \$20 by writing directly to: BPI, Dept. MPR, P.O. Box 286, Okemos, MI 48864. A free copy of the BPI Marketing Guide and Catalogue, which offers 25 other reference books on culture and management, also is available upon request.

### • 1986 Handbook for Selecting Roses.

This popular, pocket-sized handbook includes an alphabetical listing of over 1,000 commercially available roses, compiled from the reports of thousands of American Rose Society members. The listing includes type (such as climber, hybrid tea, or miniature) and color classification as well as a numerical rating of how well the cultivar performs in the garden. Winners of the 1986 Miniature Award of Excellence, and the ARS Trial Ground and All-American Rose Selection awards are indicated.

Copies of this handy booklet may be obtained by sending 50¢ and a self-addressed, stamped envelope to: The American Rose Society, Dept. ARS, P.O. Box 30,000, Shreveport, LA 71130.

## Horticultural Congress Held

Members who plan to attend the Society's 41st Annual Meeting in San Francisco (August 13-16) this summer may also be interested in joining their horticultural colleagues and friends from all over the world for the XXII International Horticultural Congress. The Congress, which is co-sponsored by AHS and the American Society for Horticultural Science (ASHS) and hosted by the University of California, Davis, will be held August 10-18. It combines a technical program with professional excursions to different geographic areas of California, which cover aspects of horticulture ranging from research to production and marketing. Local sightseeing trips also are planned. Approximately 1,700 oral and poster papers covering a wide range of disciplines will be presented and/or discussed during 34 Symposia and 25 Workshops.

Deadlines for registration for on- or off-campus accommodations and pre- and post-congress excursions have unfortunately passed, but there is still time to register in advance for the Congress itself; the deadline is May 31, 1986. Fortunately, some of the Congress' professional excursions will be combined with AHS pre- and post-Annual Meeting tours (see ad on page 19), and registration for these tours is still possible. Registration forms for the Congress may be obtained from ASHS, 701 North St. Asaph Street, Alexandria, VA 22314; or AHS, Box 0105, Mount Vernon, VA 22309.

## Errata

The date for the AHS Spring Open House, listed under "Upcoming AHS Events" in the March 1986 News Edition, is incorrect. The correct date is May 11, 1986.

Also in that issue, the date listed for the AHS Annual Meeting in San Francisco should be August 13-16, 1986 (August 17 and 18 are optional days). We apologize for any confusion these errors may have caused.

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# Tractor and Mower Maintenance

**H**ow well did your lawn equipment weather the neglect of the winter months? Did it start up this spring with a cough and a sputter—or did it stubbornly refuse to start at all? The Briggs and Stratton Corporation in Milwaukee, Wisconsin, provides some useful information to those who prefer puttering in their gardens to pleading with pull-chords.



As with an automobile engine, the life span of a lawn equipment engine depends on how well it has been maintained. Routine maintenance is easy and simple to do, and takes very little time if done on a regular basis. A basic understanding of the engine will help you to appreciate the importance of taking care of your machine.

Most outdoor power equipment, including mowers, tillers and tractors, has either a two-cycle or a four-cycle engine that operates using gasoline. It is important not to confuse the number of cycles with the number of cylinders. Push mowers generally have one cylinder; larger riding mowers or garden tractors can have one or two cylinders. Two-cylinder engines are usually referred to as "twins."

All gasoline engines require both fuel and proper lubrication to run, as well as air for full power delivery and adequate ventilation to prevent overheating. Lubrication requirements differ with the number of cycles. The literature that came with your equipment should tell you which engine type you are dealing with. Two-cycle engines are lubricated by oil that is mixed with the fuel. Oil-to-fuel ratios vary with the brand. Typical are ratios of 1:16, 1:20, 1:25 and all the way up to 1:50. Four-

cycle engines have a crankcase or sump that must contain the proper amount of oil to bathe the moving internal parts while running.

Here are some general rules to follow for walk-behind mowers, tillers, garden tractors and leaf blowers:

- **Lubrication.** Two-cycle engines: Add the oil to the fuel as recommended by the engine manufacturer. Mix thoroughly, and never use four-cycle automotive oil.

Four-cycle engines: Change the oil regularly, after every 25 hours of operation. Use a high grade, high viscosity motor oil such as SAE 10W-30 or 10W-40. Nothing should be added to the oil. Check the oil level every time you add gasoline.

- **Fuel.** Use clean, unleaded gasoline with a minimum octane of 77 (this should minimize combustion deposit build-up). Gasohol and similar fuels are not recommended, because their exact formulation is uncertain. Methanol formulations should particularly be avoided because they can easily clog fuel lines and carburetor jets.

- **Air.** Clean air is necessary to mix with fuel for optimum combustion and power. An innovation for small mowers, pleated paper air filters may be removed and replaced easily. Oil foam air cleaners may be cleaned in liquid detergent and water or kerosene to remove dirt. After washing, wrap them in a cloth and squeeze them dry. Saturate the foam with oil, and squeeze to remove the excess. Air filters should be checked and cleaned every 25 operating hours or three months, whichever comes first. Make sure no damage has occurred to the outer sealing areas around the filter; this could render the air cleaning element useless.

Grass and debris can enter the

blower housing and clog the cooling fins, which keep engine temperatures low. This can result in overheating, which can damage critical engine parts beyond repair. For this reason, the blower housing should be removed annually, and the fins flushed with air or water from a garden hose.

- **Check blade and deck.** Examine the blade and deck to look for possible wear or damage. Before looking under the deck, always ground the spark plug wire. Removing the spark plug will also prevent accidental starting while the blade is being checked or removed.

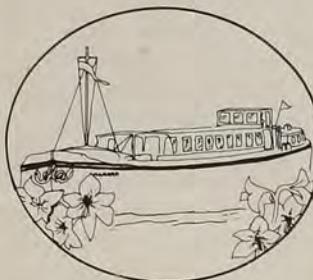
- **Spark plugs.** Worn spark plugs rob the engine of power. Spark plugs should be checked periodically to be sure the gap across the electrodes is reasonably free of combustion build-up, and the electrodes are not burnt away. (A fouled spark plug gap and burned electrodes that are noticed after only a few hours of operation indicate a more serious problem than usual wear, and should be checked by a service technician). When removing and replacing worn spark plugs, always protect the cylinder cavity to keep dirt and debris from entering the spark plug hole.

According to Briggs & Stratton, by following these procedures, you can expect to greatly increase your engine's performance and life.





## The American Horticultural Society



### Dutch Treat, Holland at Tulip Time

April 27-May 11, 1986

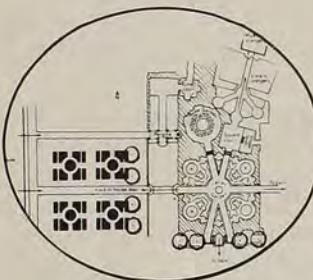
This year's trip is a variation on last year's highly acclaimed tour following paths to the country's thriving horticultural centers. We spend the first week in Amsterdam visiting the gardens of Mien Ruys, the Palais Het Loo, Haarlem and more. The second week we cruise Holland's canals aboard the luxurious hotel barge 'Juliana.' Our tour leader will be Mary Mattison van Schaik. Mrs. van Schaik, now a Vermonter, lived in Holland for 18 years and has owned a bulb importing business for 30 years. A member of the AHS, she is a popular lecturer and has been a Regional Director of the American Daffodil Society.



### Scotland, Unspoiled and Unknown

May 25-June 8, 1986

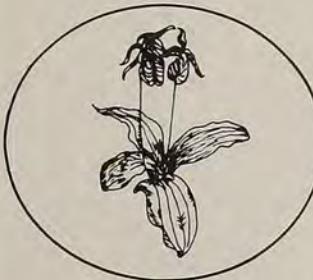
Scotland is unquestionably romantic in legend and history and the landscape beautiful and unspoiled. We will visit private homes and gardens in the Western Highlands of Argyll, renowned for its rhododendrons and flowering shrubs. Traveling through remote and breathtaking scenery, we will tour the Isle of Gigha, Crarae Woodland Gardens, Inverewe and Inverness. We will be entertained in private homes and castle gardens. In Edinburgh we have the opportunity to explore the city at our own pace and to be entertained by some of Scotland's most enthusiastic and privileged horticulturalists. We are again fortunate to have Everitt Miller, former director of Longwood Gardens, as our leader.



### In Search of Gertrude Jekyll

July 24-August 7, 1986

Our search for the gardens of Gertrude Jekyll will take us to the English countryside to visit the many homes and gardens that speak to the genius of this outstanding gardener and her remarkable partnership with Sir Edwin Lutyens. Throughout our tour we will meet with English authors, landscape architects and horticulturalists who will share with us their knowledge and affection for the work of Gertrude Jekyll. Our tour leader, Mac Griswold, is a garden writer and historian presently working on a book for New York's Metropolitan Museum of Art about the garden images in their own collection.



### Nantucket and Martha's Vineyard

September 14-21, 1986

This fall the island gardens of Nantucket and Martha's Vineyard will be the focus of a special trip co-sponsored by the New England Wild Flower Society and the AHS. Our visit will concentrate on the natural flora of the islands and the unique qualities resulting from their isolation and unusual climatic conditions. We will be guided by well-known New England botanists, and our tour leader will be Polly Pierce, President of the New England Wild Flower Society.

These trips are sponsored by the American Horticultural Society.

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## Grant Establishes Fungi Collection

A National Science Foundation grant awarded late last year will enable the Institute of Food and Agricultural Science (IFAS) to establish the "International Germ Plasm Collection of VA (vesicular-arbuscular) Mycorrhizal Fungi" on the University of Florida campus. According to Dr. N. C. Schenck, a plant pathology professor and the collection's curator, the IFAS facility will serve as a storehouse for most of the world's 90 species of VA mycorrhizal fungi, microscopic organisms that have the potential of becoming a "biological fertilizer" that could revolutionize agriculture.

Mycorrhizal fungi's hyphae—threadlike filaments that extend into the soil considerably beyond a plant's root hairs—are credited with enhancing plant growth. Plants with fungi growing on their roots are able to absorb more nutrients and water than plants without a fungal association. According to Schenck, who together with coworkers has studied the fungi for the past 15 years, plant growth rates have typically increased 25 to 300 percent. Some plant growth rates have increased as much as 13,000 percent under ideal laboratory conditions. In addition to enhancing growth rates, the fungi increase a plant's tolerance to soils containing heavy concentrations of metals, salts and acid; aid in drought and disease resistance; and enable plants to better survive transplanting.

The IFAS collection will act as a repository and supplier of the fungal cultures for researchers worldwide. "Each year we have gotten more and more requests from researchers all over the world . . .," said Schenck. He estimated some 600 scientists in 300 laboratories potentially could seek spore cultures from the facility.

One of the challenges the researchers now face is the production of an inoculum from the fungi. "We can't grow mycorrhizae fungi except on a living plant grown in pot cultures," Schenck explained. Without a simple way to disperse the fungi to plants, researchers have been unable to see its effects except in the laboratory. Schenck believes that the collection will help researchers eventually produce the fungi in inoculum form.



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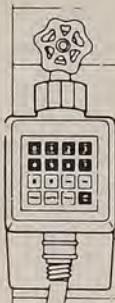
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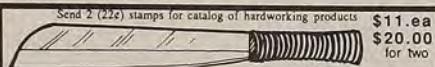
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ern California**
- Post- Annual Meeting Tour—Pa-  
cific Northwest**

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**MAIL TO:** Elizabeth Smith, AHS, PO Box 0105, Mt. Vernon, VA 22121.

# BEAUTIFUL & BOUNTIFUL

## Horticulture's Legacy to the Future

AHS's 41st ANNUAL MEETING  
AUGUST 13-16, 1986  
FAIRMONT HOTEL  
SAN FRANCISCO, CA

### MEETING SCHEDULE

#### WEDNESDAY, AUGUST 13, 1986

10:00 a.m.-5:00 p.m.—Registration, Fairmont Hotel.  
10:00 a.m.-10:00 p.m.—Exhibits.  
1:00 p.m.-5:00 p.m.—Optional Tour: *Sunset Magazine's Demonstration/Display Gardens, Menlo Park, CA.* (\$20 Members, \$22 Non-members). Visit the headquarters of *Sunset Magazine* and Books, a "Laboratory of Western Living." The main garden, designed by well-known landscape architect Thomas Church, features plants native to the Pacific Coastal area.

"It's Opening Time in the Gardens of the West," a slide presentation and discussion by John R. Dunmire, Senior Editor of *Sunset Magazine* and founder of the Western Horticultural Society, provides an introduction to new and semiprivate gardens from San Diego to Vancouver.

5:00 p.m.—Return to hotel.  
5:15 p.m.—6:00 p.m.—"Adventures in Color Gardening," by Kathy Brenzel, Garden Editor, *Sunset Magazine*.

6:00 p.m.-7:15 p.m.—Members and Exhibitors Reception, (cash bar).

7:30 p.m.-9:30 p.m.—Optional Buffet Dinner and Member's Showcase. (\$40 Members, \$45 Non-members). "Ferns—Their Place in Today's Garden," by F. Gordon Foster, Honorary Curator of Ferns, Brooklyn Botanic Garden and Honorary Fern Horticulturist, New York Botanical Garden.



This old stone lantern is just one of the many artifacts that lend an air of authenticity to the 80-year-old Japanese Tea Garden in Golden Gate Park.

#### THURSDAY, AUGUST 14, 1986

8:00 a.m.-1:30 p.m.—Registration.  
8:00 a.m.-8:00 p.m.—Exhibits.  
8:30 a.m.-12:00 noon—Education and Plenary Session.

"Horticulturists—Managers of the World to Come," by Dr. Grenville L. Lucas, Keeper of the Herbarium, Royal Botanic Gardens, Kew, England and Chairman of the Species Survival Committee, International Union for Conservation of Nature and Natural Resources.

"The Garland of Generations," a slide-tape presentation narrated by Christopher Reeve, will cover endangered species and plant extinction, as

well as man's efforts toward conservation. Sponsored by the Garden Club of America and the Center for Plant Conservation, this presentation will be introduced by Donald A. Falk, Co-founder and Director of Administration, Center for Plant Conservation.

"The New Hardiness Maps for a Flourishing Landscape," by Dr. Henry Marc Cathey, Director of the U.S. National Arboretum and a former President of the American Horticultural Society.

12:00 noon-1:30 p.m.—Lunch.  
**BUS TOURS.**

(Please choose only one of the two tours on your registration form):



**(A) 2:00 p.m.-5:00 p.m.—Golden Gate Park.** Enjoy an in-depth tour of this 1,017-acre botanical treasure, stopping at the Conservatory of Flowers and the Golden Gate Nursery.

**(B) 2:00 p.m.-3:30 p.m.—San Francisco Community Gardens.** Visit one community garden that received an award from the National Gardening Association, and tour two city rooftop gardens.

**Optional Activity, 2:00 p.m.-5:00 p.m.—Floral Design Workshop.** (\$40 Members, \$45 Non-members). "The Influence of Eastern Design on Contemporary American Flower Arranging," a lecture/demonstration by Dorothy Temple, formerly Chief Floral Director to the White House. A participatory workshop will follow. (Limited to the first 30 registrants.)

**7:00 p.m.-10:00 p.m.—President's Council Dinner.** Open only to members of the Society's President's Council. (For information about membership in this special group, please write to President Edward N. Dane, AHS, P.O. Box 0105, Mt. Vernon, VA 22121.)

## FRIDAY, AUGUST 15, 1986

**10:00 a.m.-8:00 p.m.—Exhibits.**

**8:30 a.m.-11:30 a.m.—Tour of the Filoli Estate.** Built in the early 1900's, this beautiful old house is an outstanding example of country house architecture. The gardens, designed to take advantage of the natural surroundings, are a successful

blend of both formal and natural design elements.

**12:00 noon—Lunch,** Filoli.

**1:30 p.m.-4:30 p.m.—Tour of Private Gardens.** These lovely private gardens, opened exclusively for AHS Annual Meeting participants, were designed by Thomas Church, originator of the "California living garden." They provide wonderful examples of how to combine beauty and a place for everyday activities.

**5:30 p.m.—Return to hotel.**

**8:00 p.m.-8:45 p.m.—"Water Gardening,"** by Charles D. Thomas, owner and President of Lilypons Gardens, Lilypons, Maryland, and Executive Secretary of the Water Lily Society.

**8:45 p.m.-9:30 p.m.—Presentation on AHS International Tours.**

## SATURDAY, AUGUST 16, 1986

**7:00 a.m.-8:15 a.m.—Optional: Members' Forum and Breakfast.** (\$16 Members, \$18 Non-members). This forum offers an opportunity for members to give their input regarding the Society's activities and plans for the future.

**8:30 a.m.—Buses leave for the California Academy of Sciences.**

**9:00 a.m.-12:15 p.m.—Concurrent Lecture Series, California Academy of Sciences.** Please choose only one of the three lecture series on your registration form:

### Series A—Edible Landscaping

- *How to Have Your Landscape and Eat It Too*, by Rosalind Creasy, horti-

cultural expert, landscape designer and author of pioneering gardening books on edible landscaping.

- *Gourmet Edible Landscaping*, by Robert Kourik, founder and director of the edible landscape program at Farallones Institute in California, where he coined the term "edible landscaping."

### Series B—Oriental Gardening

- *Chinese Plants for American Gardens*, by Paul W. Meyer, Director of Horticulture and Curator, Morris Arboretum, University of Pennsylvania.

- *The Influence of Oriental Planting Design on Western Gardens*, by Mai K. Arbegast, California landscape architect and former teacher, Department of Landscape Design, University of California.

- *Spring Flowers, Autumn Moon: Poetry, Painting and Plants*, by William D. Y. Wu, Executive Director, the Chinese Cultural Foundation and authority on Chinese art, with a specialty in Chinese landscape painting.

### Series C—Plant Conservation

- *Saving the Jewels in the Crown—Garden Plant Conservation in Action*, by Dr. Christopher D. Brickell, Director General of The Royal Horticultural Society.

- *Backyard Conservation: Introducing New and Endangered Species to Home Gardens*, by Dr. James Affolter, Curator, University of California Botanical Garden, Berkeley.

- *Pink Larkspur on Ice: Off-site Preservation of Rare Northwest Native Plants*, by Julie Kierstead, Director,



The main residence at Filoli presides over 17 acres of formal display gardens on this 654-acre estate. Designed by Thomas Church, the private gardens feature special plant collections that blend well with their natural surroundings.

Carol Ivie

Berry Botanic Garden Seed Bank for the Rare and Endangered Plants of the Pacific Northwest.

• *Conserving African Monocots: A Ten Year Retrospective*, by Dr. Harold Koopowitz, Professor of Biology and Director of UCI Arboretum, University of California, Irvine.

A panel discussion on plant conservation in cultivated settings, moderated by Donald Falk, will follow this series.

**12:30 p.m.—Lunch**, Strybing Arboretum.

**1:30 p.m.-4:30 p.m.—Tour of the Japanese Tea Garden and Strybing Arboretum.** See one of the most authentic examples of Japanese landscape artistry outside of Japan—the Japanese Tea Garden in Golden Gate Park. Take a special guided tour of the 70-acre Strybing Arboretum, with its unique collection of over 5,000 different species of plants, made possible by San Francisco's unusual climate.

**5:00 p.m.—Return to hotel.**

**6:00 p.m.-7:15 p.m.—President's Reception,** (cash bar).

**7:30 p.m.-9:30 p.m.—American Horticultural Society Awards Banquet.**

The following awards will be presented at the American Horticultural Society's Annual Awards Banquet:

**Liberty Hyde Bailey Medal:**  
*Elizabeth McClintock*

**G. B. Gunlogson Medal:**

*Paul V. Nelson*

**Catherine H. Sweeney Award:**

*Marie Aull*

#### **CITATIONS**

**Commercial (Firm):** *Sunset Magazine*

**Commercial (Individual):**

*Charles D. Thomas*

**Horticultural Therapy:** *Kansas State University/Menninger Foundation*

**Horticultural Writing:**

*W. George Waters*

**Landscape Architecture:**

*Hideo Sasaki*

**Local Horticulture:** *Victor Reiter, Jr.*  
**Meritorious Service:** *Northwest Ornamental Horticultural Society*

**Professional:** *Ray Collett*

**Scientific:** *Fred B. Widmoyer*

**Teaching:** *Raymond T. Greiten*

**Urban Beautification (Firm):** *Franklin Town Corporation*

**Urban Beautification (Individual):** *Ralph Steyer*



This lovely fountain, surrounded by beautiful potted flowers, is found in the gardens of *Sunset Magazine and Books*' headquarters. Many plants native to the Pacific Coastal area also flourish at this "Laboratory of Western Living."

Lane Publishing Co.

## OPTIONAL ALL-DAY TOURS

### SUNDAY, AUGUST 17, 1986

**9:00 a.m.-4:00 p.m.—Optional Day: Exclusive Tour of Sonoma County.** (\$55 Members, \$65 Non-members). Robert Kourik, noted edible landscaping expert, will be our guide.

**Western Hills Nursery.** Enjoy an innovative nursery specializing in plants native to the western United States.

**Luther Burbank Home and Memorial Gardens,** Santa Rosa, CA. See the living testament to one of America's foremost plant breeders. Burbank's search for the perfect climate and soil for experimenting with plants brought him to the Santa Rosa Valley. Examples of his work, which led to the introduction of as many as 800 cultivars of flowers, vegetables, fruits and cereal grains, may be seen in the gardens.

**Winery and Garden Tour.** Tour the Hacienda Winery and enjoy tasting its wonderful Sonoma Valley wines. Then visit a private home with a prime example of edible landscaping—a garden teeming with flowers, fruits, vegetables and nuts. Lunch will be served at this private home.

### MONDAY, AUGUST 18, 1986

**9:00 a.m.-4:00 p.m.—Optional Day: East Bay Area Tour.** (\$50 Members, \$60 Non-members).

**Tilden Regional Parks Botanic Garden.** Beautifully situated in Wildcat Canyon in the heart of North Berkeley Hills, this garden-within-a-park is devoted to the collection, growth, display and preservation of California native plants. Imagine seeing plants representative of the remarkable and diverse flora of California, all in one 6½-acre garden!

**University of California Botanical Garden at Berkeley.** Located in the hills above the Berkeley campus, this garden contains over 8,000 species from some of the most remote regions on earth.

**Lunch,** the Redwood Amphitheater at the Botanical Garden.

**Harland Hand's Private Garden.**

This magnificent, multi-faceted garden has been referred to as a "work of art." Inspired by nature, it was 28 years in the making, and today stands as an exploration of color, space and human needs. (For more information on this garden, see the June 1986 issue of *American Horticulturist*.)

## AHS's 41st ANNUAL MEETING REGISTRATION FORM

**HOTEL INFORMATION:** Accommodations for out-of-town Meeting participants will be available at The Fairmont Hotel, 950 Mason Street, San Francisco, CA 94108, (415) 772-5000. When your registration form and check are received, we will send you a hotel registration card. Please return the card to The Fairmont Hotel; hotel staff will confirm your reservation.

The following room rates are available:

	Main Building Court	Main Building Outside	Tower
Single	\$85-\$125	\$110-\$140	\$135-\$175
Double/Twin	\$110-\$150	\$135-\$165	\$160-\$200
Suites		\$375 & up	\$450 & up

**The hotel will not guarantee rooms for people registering for the AHS Annual Meeting after July 16.**

**HANDICAPPED FACILITIES:** Rooms for the handicapped are available. Please check the appropriate box on the form below if these facilities are required.

**IMPORTANT:** Registrations must be postmarked by July 21, 1986 in order to guarantee space. Please register earlier if possible. The full registration fee covers all events and transportation listed on the Annual Meeting Program, except those marked "OPTIONAL." Lodging and meals (other than those indicated) are not included. Optional activities are: the Tour and Buffet Dinner/Member's Showcase on Wednesday, the Floral Design Workshop on Thursday, the Member's Forum and Breakfast on Saturday and the All-day Tours on Sunday and Monday.

**CANCELLATION:** A full refund, less \$50 per person for booking expenses, will be made if written cancellation is postmarked by July 21. **We cannot honor refund requests postmarked after July 21.**

**WEATHER:** "Be prepared for cool weather, but don't be surprised if it's warm."

**PLEASE SEND PAYMENT IN FULL TO: AHS Annual Meeting, American Horticultural Society, P.O. Box 0105, Mount Vernon, VA 22121.**

Please list your name(s) as you wish it (them) to appear on your badge(s).

Name \_\_\_\_\_

Spouse's/Guest's Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone: Area Code \_\_\_\_\_ Number \_\_\_\_\_

Please check here if handicapped facilities are required.

**Please enter the number of people registering and the total fee for each item in the spaces below:**

Member's Fee	# of People Registering	Total Fee	Non-Member's Fee	# of People Registering	Total Fee
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**FULL REGISTRATION** (Excludes all optional activities)

August 13-16 .....	\$260	\$_____	\$290	\$_____	\$_____
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**PARTIAL REGISTRATION** (Excludes all optional activities)

Thursday, August 14 .....	85	_____	95	_____	_____
Friday, August 15 .....	90	_____	100	_____	_____
Saturday, August 16 .....	105	_____	115	_____	_____

**CONCURRENT ACTIVITIES:** (Included in registration fee). Advance registration for these activities is required. Please indicate number of registrants.

**THURSDAY, AUGUST 14**

**Tours** (Please choose only one of two per registrant, or substitute the optional Floral Design Workshop (see "Optional Activities," below).

- Golden Gate Park.....  
 Community Gardens.....

**SATURDAY, AUGUST 16**

**Lecture Series** (Please choose only one of three per registrant).

- Series A—Edible Landscaping.....  
 Series B—Oriental Gardening.....  
 Series C—Plant Conservation.....

**OPTIONAL ACTIVITIES:** (Not included in full or partial registration fees).

**Wednesday, August 13**

<input type="checkbox"/> Sunset Magazine Garden Tour.....	\$ 20	_____	\$_____	\$ 22	_____	\$_____
<input type="checkbox"/> Buffet Dinner/Member's Showcase.....	40	_____	_____	45	_____	_____

**Thursday, August 14**

<input type="checkbox"/> Floral Design Workshop.....	40	_____	_____	45	_____	_____
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**Saturday, August 16**

<input type="checkbox"/> Member's Forum & Breakfast .....	16	_____	_____	18	_____	_____
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**Sunday, August 17**

<input type="checkbox"/> All-day Tour of Sonoma County .....	55	_____	_____	65	_____	_____
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**Monday, August 18**

<input type="checkbox"/> All-day Tour of East Bay Area.....	50	_____	_____	60	_____	_____
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**TOTAL ENCLOSED**

\$_____	\$_____
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## **Antipollution "Shot-in-the-Stem" for Tree Seedlings**

Scientists at the Agricultural Research Service's Nursery Crops Research Laboratory in Delaware, Ohio, have found a chemical that, when injected into shade trees, can reduce leaf damage from ozone pollution by as much as 94 percent. Ozone is a major air pollutant that damages crops and causes tree leaves to yellow, wither and fall. It also reduces vigor and growth, leaving trees vulnerable to attack by insects and disease. How ethylenediamine (EDU), the chemical found to protect trees from ozone, works is not well understood, according to Bruce R. Roberts, a plant physiologist with the ARS. "Our test results indicate that when it is injected directly into the stem, it alters enzyme and membrane activity within the leaf cells where photosynthesis takes place," Roberts said.

According to Roberts, honeylocust, red maple, pin oak and sweetgum seedlings were treated with the chemical by two different methods a week before being fumigated with 0.30 and 0.95 parts per million of ozone, an amount well above the normal level found in smog. Leaves were checked for damage within six days after fumigation. Roberts and coworkers found that injecting EDU into a small cut in the stem was more efficient than drenching the soil around the potted seedlings. With one-fiftieth as much EDU solution, injection provided up to 94 per-

cent protection, while drenching provided a high of only 46 percent protection.

The study was conducted on two-year-old seedlings because they would fit into the fumigation chambers, but Roberts says EDU injection

should protect mature trees as well. The scientist believe that "EDU is a relatively safe chemical for protecting the leaves of most trees and shrubs from ozone damage," according to Roberts.

—Betty Solomon, Agricultural Research, January 1986

## **Plant Lists Available**

The Department of the Interior's U.S. Fish and Wildlife Service has released its cumulative list of *Endangered and Threatened Wildlife and Plants* (50 CFR 17.11 and 17.12), which is current up to January 1, 1986. The "Endangered and Threatened Plants" section (17.12) contains the names of all species of plants that have been listed by the Service as Endangered or Threatened. It also contains the names of species of plants treated as Endangered or Threatened because they are sufficiently similar in appearance to Endangered or Threatened species. Important information, including scientific name, family, historic range, date of listing, critical habitat designation (if any) and special rules (for experimental populations) is included. Common names are also included for general information. Copies of this list are available from the Publications Unit, 148 Matomic, U.S.

Fish and Wildlife Service, Washington, D.C. 20240.

A related list, *Endangered and Threatened Wildlife and Plants; Review of Plant Taxa for Listing as Endangered or Threatened Species* (50 CFR part 17), was published September 27, 1985. This publication includes all species under consideration for listing as Endangered or Threatened. Here, plants are categorized according to their vulnerability. This list of candidate species provides perhaps a more complete picture of the status of our native plants than does the list of "Endangered and Threatened Plants" standing alone. For example, the candidate list identifies plants thought to be extinct in the wild, which is a category not provided for on the "Endangered and Threatened Plants" list. For copies, write to the Publications Unit, 148 Matomic, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

# **American Horticulturist**

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