

American Horticulturist



Water gardening enthusiasts will be gathering April 4th and 5th at the National Wildlife Federation Headquarters in Vienna, Virginia, for the American Horticultural Society's Water Gardening Symposium. Experts from across the country and from England will present the latest information on pool design, construction, and maintenance; waterlilies, lotus, and companion plants; koi and other exotic fish; and propagation, conservation, and environmental balance. For more on this exciting program, turn to page 15.

AHS Board of Directors Elections

American Horticultural Society members are hereby notified that the Society's Annual Meeting will take place at the Omni Park Central Hotel in New York, New York, on Wednesday, May 13, 1987, at 9:30 a.m.

At this meeting, seven 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.

Mrs. Alberta Allen, Jr. (Incumbent). Glenview, Kentucky. An active and effective fundraiser, Mrs. Allen serves on the boards of many civic and cultural organizations in the Louisville, Kentucky, area, including the Board of Trustees of Berea College (Berea, Kentucky), the Board of Governors of the J.B. Speed Art Museum (Louisville, Kentucky), and the Board of the Kentucky Center for the Arts Endowment Fund, Inc. She is a Past President of both the Junior League of Louisville and the Macaulay Theater.

Mrs. Erastus Corning, II (Incumbent). Albany, New York. The recipient of AHS's Meritorious Service Award for 1987, Mrs. Corning is quite active in horticultural circles. She is a Past President of The Berkshire Garden Center, and currently serves on the Board of the New York Botanical Garden. She is also President of the George Landis Arboretum in Esper-

ance, New York; a fellow of the Pacific Tropical Botanical Garden; a member of the National Advisory Council of Filoli; and a member of the Horticulture Committee of Wave Hill. Mrs. Corning has served for many years in the Garden Club of America—as Director, Zone Chairman, Secretary, First Vice President, and President (1962-65).

Mr. Edward N. Dane. Boston, Massachusetts. Mr. Dane is President of Dane, Falb, Stone and Company, Inc., an investment advisory firm. He is a life member, a former Board Member and Immediate Past President of AHS, in which capacity he served from 1982 to 1986. Dane is currently a member of the Horticultural Club of Boston, the Massachusetts Horticultural Society, the New England Wild Flower Society, and the American Orchid Society.

Mrs. Carolyn Marsh Lindsay (Incumbent). Rochester, New York. Mrs.

Lindsay has taught courses in horticulture, and has worked as a private consultant and a full-time landscape designer. She was President and owner of Carolyn Marsh and Associates, Inc., a landscape design and installation company headquartered in Columbus, Ohio. She has been Chairman of the AHS Awards Committee since 1983.

Mrs. Polly Pierce (Incumbent). Dedham, Massachusetts. A Past President of the New England Wildflower Society (1983-1986), Mrs. Pierce remains involved in that organization as a member of the Board of Trustees. Since 1984, she has also been a member of the Board of Trustees for the Massachusetts Horticultural Society, and a horticulture judge for the Garden Club of America.

Mrs. Janet Meakin Poor (Incumbent). Winnetka, Illinois. Mrs. Poor is involved in numerous horticultural endeavors throughout the country, as well as at the local level in her home town of Winnetka, Illinois. She is a member of the Winnetka Beautifica-



Plants Wanted

Members who are growing or who have access to any of the plants in this month's column are invited to help their fellow members locate seed, plants or cuttings of their "Plants Wanted" by writing directly to the address listed below.

Please send your "Plants Wanted" lists, including genus, species, common name and a brief description, to "Plants Wanted" in care of the Society. Please type or print neatly. We will publish them on a space-available basis after checking for sources in the Society's catalogue file.

• ***Prunus armeniaca* 'Autumn Royal'**, a deciduous apricot tree that is distinctive from most other apricots because it ripens in autumn. It has a round crown, reddish bark and

glabrous twigs with pinkish, one-inch flowers early in the season, followed by short-pointed ovate leaves, two to three inches long. Gina Rubin Keiser, P.O. Box 456, Chelan, WA 98816.

• ***Prunus spinosa***, blackthorn or sloe, a three- to 12-foot, much branched shrub or tree. Bears white, 3/4-inch flowers in spring before the 1- to 1 1/2-inch, oblong to obovate leaves appear. Blue-black fruit is 1/2 inch in diameter. Dr. Thomas J. Schlereth, 339 O'Shaughnessy Hall, University of Notre Dame, Notre Dame, Indiana 46556.

• ***Rhododendron* 'Tish'**, is a cross between *R. 'Beckyann'* and *R. fortunei*. Leaves are medium large. Yellow flowers, 3 1/4 inches wide appear from mid-May to early June. Robert Blakeley, General Contracting, 42 Greene St., N.Y.C. 10013.

American Horticulturist

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tion Commission and the Garden Council of Winnetka; Vice-Chairman of the Board of Directors of the Chicago Botanic Garden; a member of the Advisory Board of Filoli in San Francisco, California, and of the U.S. National Arboretum in Washington, D.C.; and a Trustee of the Center for Plant Conservation in Jamaica Plain, Massachusetts. She has also been actively involved in the Garden Club of America, for which she presently serves as Corresponding Secretary.

Mr. John H. Whitworth (Incumbent). New York, New York. Mr. Whitworth is a member of the Secretary of Agriculture's National Arboretum Advisory Council, as well as the Friends of the National Arboretum, the New York Botanical Garden, the Brooklyn Botanic Garden, and the Friends of the Carey Arboretum in Millbrook, New York. He is a frequent visitor to gardens, arboreta, and horticultural events in this country and abroad. He has a weekend home in the Hudson Valley, where he continues to work on gardens and a collection of deciduous trees and conifers that he started in 1975.

PROXY

Notice of Election in conjunction with the 42nd Annual Meeting of the American Horticultural Society.

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

I will not be able to attend the Annual Meeting of the American Horticultural Society on Wednesday, May 13, 1987. Please assign my proxy to AHS President Mr. Everitt L. Miller, or

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

- ☐ Mrs. Charles W. Allen, Jr.
- ☐ Mrs. Erastus Corning, II
- ☐ Mr. Edward N. Dane
- ☐ Mrs. Carolyn Marsh Lindsay
- ☐ Mrs. Daniel Pierce
- ☐ Mrs. Edward King Poor
- ☐ Mr. John H. Whitworth

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 _____

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Rockefeller Family to Receive AHS National Achievement Award

The 42nd Annual Meeting of the American Horticultural Society, to be held May 12 through 16 in New York, New York, will feature a ceremony devoted exclusively to recognizing the Rockefeller family and its tremendous contributions to horticulture in America. On Friday evening, May 15, Mr. and Mrs. David ("Peggy") Rockefeller will accept the Society's National Achievement Award on behalf of the entire Rockefeller family.

The family's commitment to gardens is perhaps most apparent in the lovely Abbey Aldrich Rockefeller Garden in Seal Harbor, on Mount Desert Island, Maine. (See *American Horticulturist*, October 1985, for an article about this remarkable garden.) Originally designed by Beatrix Farrand for John D. Rockefeller and his wife Abby Aldrich Rockefeller, this garden is English in style, but has an Oriental influence. Mrs. Peggy Rockefeller has been the guiding influence at the garden since 1960. She has been responsible for replacing many of the annuals, which once filled the borders, with perennials that can withstand Maine's harsh winters and still bloom profusely in late summer.

Greenacre Park, located in New York City on the north side of East 51st Street, between Second and Third Avenues, is another example of the family's dedication to gardens. A variety of evergreens, seasonal flowers, honey locust trees, small tables and chairs, and a waterfall provide an oasis for harried city-dwellers. Designed by Hideo Sasaki, the 6,360-square-foot park was conceived and implemented by members of the Rockefeller family. The Rockefeller family also sponsored development of The Cloisters Museum in Fort Tryon Park, which features an authentic medieval garden, when the park was presented to the city of New York. The gardens of the famous Rockefeller Center and the Abbey Aldrich Rockefeller Garden at the Museum of Modern Art (known as "the heart of the museum"), both of which are in New York City, as well as Forest Hill Park near Cleve-



Mr. & Mrs. David Rockefeller Peter Schaal

land, Ohio, are further testament to the family's devotion to gardens.

The most ambitious restoration project that the family has contributed to is that of Colonial Williamsburg, one of the most-visited and best-loved historic sites in this country. Colonial Williamsburg includes 84 acres of gardens and greens. Garden restoration and archaeology projects conducted there have greatly influenced the growing garden restoration movement in this country. The

Rockefeller influence has also been felt in other countries; efforts to restore France's palace of Versailles were aided by the family, resulting in (among other things) the restoration of about 440 acres of gardens and 1,000 acres of parkland.

The Rockefeller family has also played a vital role in the formation of our park systems, especially at the national level. Some of the more famous projects with which the Rockefellers have been involved include the establishment of Acadia National Park in Maine, Grand Teton National Park in Wyoming, Redwoods State Park in California, and The Palisades Interstate Park in New Jersey and New York. The Rockefeller philosophy was perhaps best expressed by Laurance Rockefeller during a White House Conference on Natural Beauty in 1965. In his opening address to the conference, Mr. Rockefeller emphasized that natural beauty must be an integral part of our national life and not regarded as a frill, afterthought, or luxury; that it is basic to the nation's spiritual life, and that it greatly influences the quality of the individual lives we lead.

The Rockefellers believe in the

Sponsoring Member's News

Massachusetts Horticultural Society Medals Awarded

The Massachusetts Horticultural Society has announced the 1986 recipients of its Honorary Medals. The Society's highest award, the George Robert White Medal of Honor, was given to Dr. Roy L. Taylor, President of the Chicago Botanic Garden and Director of the Chicago Horticultural Society. Peter Del Tredici of the Arnold Arboretum was named the recipient of the Jackson Dawson Medal for his research in plant propagation; and Alan Godlewski, chief horticulturist for the Missouri Botanical Garden, received the Thomas Roland Medal for exceptional skill in

horticulture.

Gold Medals were awarded to J. Liddon Pennock, Jr., for his leadership with the Pennsylvania Horticultural Society and the Philadelphia Flower Show; to George Taloumis, garden writer for the *Boston Globe* and past editor of *Horticulture* magazine; and to Mary B. Wakefield of Milton, Massachusetts, for her years of service to the Society.

Silver Medals were awarded to Dr. Robert L. Dressler, guest curator at the Florida State Museum, for his pioneering work on the biology of orchids; and to Geraldine Weinstein, immediate past Director of Horticulture for New York, for her work toward the restoration of Central Park.

duality of the phrase "conservation and use of resources." They are committed to maximizing the benefits of projects for citizens, while at the same time they expect some form of commitment from the benefactors. For example, many projects involve donations with provisions for matching funds. In all projects, there is an overriding feeling of personal involvement expressed by the family members.

Members of the family have founded conservation organizations, and have served on boards, committees and advisory commissions for causes such as roadside improvement, barrier island preservation, recreation and natural beauty assessment, and wildflower preservation. There is no question that this family has reached the apex of achievement and involvement in the national arena of conservation and beautification. It is with great pleasure that the Society anticipates presenting the Rockefeller family with the National Achievement Award.

Soaked Seeds May Split

A caution to impatient gardeners who soak their seeds to get them off to a fast start: you may actually be doing more harm than good. Scientists with the United States Department of Agriculture's Agricultural Research Service (ARS) have found that when a seed is planted, it naturally takes up moisture from the soil, allowing it to expand and grow. But if the seed has been previously soaked, or if the ground is too wet, the seed takes up water too quickly. This causes the seed's protective cover to crack, leaving the young seedling vulnerable to disease-causing fungi in the soil.

ARS scientists are experimenting with coating seeds with a waxy compound that slows water uptake and prevents fracturing. This work is still in the preliminary stages, however. We will keep our readers posted as to the outcome of this research; in the meantime, Brian Little, our Gardener's Information Service horticulturist, suggests soaking your seed in a fungicide to help control damage.



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Name

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Gardener's Dateline

March 4-8

Minnesota Home and Garden Show

Minneapolis Auditorium and Convention Hall, 3rd and 15th Street, Minneapolis, Minnesota. Information: Richard E. Engbretson, Trade Shows, Inc., 15235 Minnetonka Blvd., Minnetonka, MN 55345, (612) 933-3850.

March 4-8

New York Flower & Antiques Show

Jacob K. Javits Convention Center. Information: Westchester Enterprises, Inc., PO Box 717, Rye, NY 10538, (914) 698-3442.

March 5-8

Metropolitan Louisville Home-Garden & Flower Show

Kentucky Fair & Exposition Center/E. Wing, Louisville, Kentucky. Information: Tony Short, Show Manager, 1800 Arthur St., Louisville, KY 40217, (502) 637-9737.

March 5-8

Society of Ethnobiology Annual Conference

Florida State Museum, University of Florida. Information: Elizabeth S. Wing, Florida State Museum, Gainesville, FL 32611, (904) 392-1721.

March 7-15

The New York Flower Show: Salute to Spring

The New York Passenger Ship Terminal, Pier 90, 55th St. and the West Side Highway, New York, New York. Hours: 10 a.m. to 5 p.m. Admission: Adults, \$6; Advanced sale to groups (10 or more), \$5; Children 4 to 12, \$3 (under 3, free). Information: The Horticultural Society of New York, 128 W. 58th Street, New York, NY 10019.

March 8-15

Philadelphia Flower Show

Philadelphia Civic Center, 34th St. & Civic Center Blvd., Philadelphia, Pennsylvania. Hours: Sundays, 10 a.m. to 6 p.m.; Monday to Saturday, 10 a.m. to 9:30 p.m. Admission: General, \$7.50; Children under 12, \$3.75. Information: Pennsylvania Horticultural Society, 325 Walnut Street, Philadelphia, PA 19106, (215) 625-8250.

March 8-May 31

Spring Visitor Program

Rhododendron Species Foundation

RSF Garden on the Weyerhaeuser Corporate Headquarters Campus, Federal Way, Washington. Hours: Sundays, 1 to 5 p.m.; Wednesdays, 10 a.m. to 3 p.m. Admission:



RSF Members and children under 12, free; Associate Members, \$1; Non-members, \$2. Information: RSF Office, PO Box 3798, Federal Way, WA 98063, (206) 927-6960 or 838-4646.

March 9-11

Symposium: "The Influence of Land Use Patterns on Landscape Function: Ecology Theory and Management Implications"

University of Virginia, Charlottesville, Virginia. Hours: 9 a.m. to 1 p.m. Registration: General, \$30; Students, \$20. Information: Dr. William E. Odum, Dept. of Environmental Sciences, Clark Hall, University of Virginia, Charlottesville, VA 22903, (804) 924-0560.

March 11-15

Nashville Lawn and Garden Fair

Co-sponsored by Nashville Exchange Club and Garden Clubs of Nashville. Tennessee State Fairgrounds, Nashville, Tennessee. Hours: Wednesday to Saturday, 10 a.m. to 9 p.m.; Sunday, 10 a.m. to 6 p.m. Admission: Adults, \$4; Children and Senior Citizens, \$3; Student discount; Children under 6, free. Information: Frank Crowell, Nashville Lawn & Garden Fair, PO Box 50063, Nashville, TN 37205, (615) 331-1212.

March 11-15

Lawn & Garden Fair

Nashville Fairgrounds, Nashville, Tennessee. Hours: Wednesday through Saturday, 10 a.m. to 10 p.m.; Sunday 10 a.m. to 6 p.m. Information: Cheekwood Botanical Gardens and Fine Arts Center, Forrest Park Drive, Nashville, TN 37205, (615) 356-3306.

March 12-15

California & Pacific Southwest Recreation & Park Conference

San Francisco, California. Information: California Park and Recreation Society, Inc., 3031 F St., Ste. 202, PO Box 161118, Sacramento, CA 95816, (916) 446-2777.

March 12-13

Urban Conservation Symposium

Raffles Hotel, Aurora, Colorado. Information: Industrial Expositions, Inc. 4851 Independence # 121, PO Box 1238, Wheat Ridge, CO 80033, (303) 422-3444, or 422-3888.

March 13-15

"Heart of Georgia" Home & Garden Show

Macon Coliseum, Macon, Georgia. Information: John Mullis, Producer, 5890 Zebulon Rd., Macon, GA 31210, (912) 474-9489.



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March 13-15

"Daffodils and Dinosaurs" Flower Show

Co-sponsored by the Chicago Tribune and The Garden Clubs of Illinois, Inc. Stanley Field Hall of the Field Museum of Natural History, Roosevelt Road and Lake Shore Drive, Chicago, Illinois. Hours: 9 a.m. to 5 p.m. Admission: Adults, \$2; Children 12 and under, \$1; Families, \$4. Information: Mrs. Richard G. Schreiber, President, The Garden Clubs of Illinois, Inc., Executive Office, Morton Arboretum, Lisle, IL 60532.

March 13-22

Pittsburgh Home & Garden Show

Pittsburgh Convention Center, Pittsburgh, Pennsylvania. Information: John DeSantis, Executive Director, 1000 Greentree Road, Pittsburgh, PA 15220, (412) 921-1343.

March 14-22

Indiana Flower & Patio Show

Indiana State Fairgrounds, Indianapolis, Indiana. Hours: Sundays, 10 a.m. to 6 p.m.; Saturdays and Friday, 11 a.m. to 10 p.m.; Monday through Thursday, 11 a.m. to 9 p.m. Information: Thelma and Edward Schoenberger, PO Box 20189, Indianapolis, IN 46220, (317) 255-4151.

March 14-22

New England Spring Flower Show

Bayside Exposition Center, Boston, Massachusetts. Hours: Monday through Saturday, 10 a.m. to 10 p.m.; Sundays, 10 a.m. to 8 p.m. Admission: Adults, \$6; Senior Citizens, \$5; Children ages 6 to 12, \$1. Information: Richard R. Chamberlin, Jr., Massachusetts Horticultural Society, 300 Massachusetts Avenue, Boston, MA 02115, (617) 536-9280, or 262-8780.

March 14-22

Buffalo Home and Garden Show

Buffalo Convention Center. Information: Paul E. Schweitzer, 135 Delaware Avenue, Buffalo, NY 14202, (716) 852-2006.

March 18-22

The Washington Flower & Garden Show

The Washington Convention Center, 900 Ninth Street, NW, Washington, DC. Hours: Wednesday through Saturday, 11 a.m. to 10 p.m.; Sunday, 11 a.m. to 7 p.m. Information: TJS Productions, 7668-B Fullerton Road, Springfield, VA 22153, (703) 569-7141.

March 19-22

Central Missouri Home Lawn, Garden & Recreational Show

Hearnes Multi-Purpose Building, Columbia, Missouri. Information: Charles G. Page, Route #3, Box 12, Gravois Mills, MO 65037, (314) 372-2277.

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The American Horticultural Society



Capability Brown's England & The Chelsea Flower Show

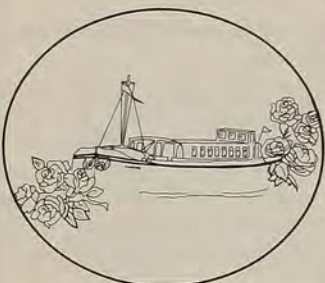
May 18-June 1, 1987

The name Capability Brown is synonymous with the magnificent open parks and woodlands of England. His influence is also felt in some of the great houses and surrounding gardens which he was responsible for architecturally and aesthetically. Our two weeks which will include Press Day at the Chelsea Flower Show, will include visits to some of these Treasure Houses, with private tours conducted by the owners or head gardeners, as well as tours of some smaller and more private estates, little known to the general public.



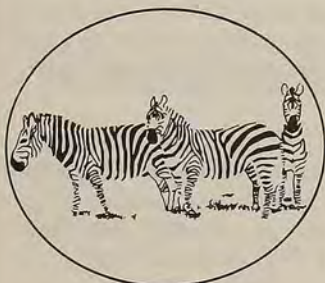
Lost and Found: Formal Gardens of England June 17-July 2, 1987

Come to the mysterious world of England's 'Lost and Found Formal Gardens,' ranging from the grandeur of Powis Castle in Wales, to the sundappled mystery of Melbourne. We'll see the strange emblematic topiary garden at Packwood House in Warwickshire, and the coziest Tudor & Stuart manor houses. A special tour with Graham Stuart Thomas of his world famous old rose collection at Mottisfont Abbey is scheduled. Although most of the magical gardens of Renaissance and 17th-century England were swept away by the improving hand of Capability Brown, Humphrey Repton, and other great exponents of the English 18th-century landscape school, enough traces remained to inspire a revolution in 19th-century England. Under the influence of Sir Walter Scott, many an old garden was revived and revised. Through such gardens, we'll be able to trace the little known history of England's fantastic formal gardens.



Gardens of the Riviera and Burgundy September 19-October 3, 1987

This delightful fall trip to France will enchant all lovers of roses as well as those of you who thrill at the thought of the Riviera and of Burgundy. Under the guidance of Richard Hutton, our leader and President of Conard-Pyle/Star Roses, we will tour some of France's most important gardens and nurseries. Among our hosts will be Selection Meilland, one of the world's foremost rose breeders as well as many private individuals who will open their gardens to us. We will spend one week in the south of France touring the Riviera from Monaco to Nice and Antibes. We'll spend our second week aboard the luxurious hotel barge 'Janine' floating through Burgundy's rich and varied countryside visiting nurseries and gardens as well as some of the vineyards so busy at this harvest time of year.



Kenya and East Africa

October 14-31, 1987

Our trip to Kenya should delight and surprise those who are interested not only in horticulture but also in the wildlife, ecology and geography of East Africa. These two weeks offer an exciting and adventurous opportunity, unusual in scope, content and variety. We will visit a wide range of habitats and vegetation zones where both flora and fauna thrive. After a brief stay in Nairobi, we are off on our horticultural safari, journeying north to the Aberdare National Park, a lush verdant region typical of an equatorial forest ecosystem. We will cross the Equator en route to Samburu Game Reserve, a semi-arid landscape, and continue on to the multi-vegetational zones of Mt. Kenya and our visit to the luxurious Mt. Kenya Safari Club. An exciting adventure follows with three full days of game viewing in the Masai Mara, Kenya's finest game reserve before concluding our safari in Lake Naivasha touring private estates and gardens.

These trips are sponsored by the American Horticultural Society.

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March 21-29 Cincinnati Home & Garden Show

Cincinnati Convention-Exposition Center.
Information: Robert S. Hart, Jr., Hart Productions, Inc., 1172 W. Galbraith Road,
Cincinnati, Ohio 45231, (513) 522-7330.

March 26 Noteworthy Trees of Britain and Europe and Their American Cousins

Longwood Gardens, Kennett Square,
Pennsylvania. Hours: 7:30 to 9 p.m. Admission: \$15. Information: Longwood Gardens, Continuing Education Department, PO Box 510, Kennett Square, PA 19348, (215) 388-6741, Ext. 516.

March 27-28 Gourmet Gardening Symposium and Workshop

The New York Botanical Garden, Bronx,
New York. Information: Michael Fleming,
NYBG, Bronx, NY 10458, (212) 220-8720.

March 28-29 Herb Weekend

Bittersweet Hill Nurseries, Rt. 424 and
Governor's Bridge Rd., Davidsonville,
Maryland. Hours: 9 a.m. to 5 p.m. Information: Mrs. Hildreth K. Morton, Bittersweet Hill Nurseries, Davidsonville, MD 21035, (301) 798-0231.

March 28-April 5 Portland Home & Garden Show

Multnomah County Exposition Center,
Portland, Oregon. Information: Thomas P.
O'Loughlin, Manager, To-Ro Enterprises,
Inc., PO Box 25348, Portland, OR 97225,
(503) 246-8291.

March 29 Connecticut Cactus and Succulent Society Annual Show and Sale

Waterbury State Technical College, Waterbury,
Connecticut. Hours: 12 noon to 4 p.m. Information: John Spain,
(203) 758-9549.

March 30-April 1 Landscape Design Study Course II, Series VII

Adult Education Center, University of
Maryland, College Park, Maryland. Full
course, \$37.00; Single day, \$20.00. Information and brochure: Mrs. Carlton Coffey, State Chairman, Landscape Design Study Courses, 5911 One Penny Drive, Fairfax Station, VA 22039, (703) 978-4128.

April 1 Symposium: Health Care for Trees

Longwood Gardens, Kennett Square,
Pennsylvania. Information: Continuing

Education Department, Longwood Gardens, PO Box 501, Kennett Square, PA 19348.

April 1-5 Edmonton Home & Garden Show

Agri-Com/Exhibition Grounds, Edmonton, Alberta. Information: Nelson B. Groves, Western Manager, Suite 202-2695 Granville St., Vancouver, B.C. V6H 3H4, Canada, (604) 736-331.

April 2 Lecture: Ornamental Grasses Rediscovered

Wave Hill, Bronx, New York. Admission: \$8; advance reservations suggested. Information: Wave Hill, Horticultural Lecture Series, 675 West 252 Street, Bronx, NY 10471, (212) 549-3200.

April 2-4 "Rites of Spring" Garden Living Exposition

Maryland State Fairgrounds, Timonium, Maryland. Hours: April 2 & 4, 10 a.m. to 5 p.m.; April 3, 10 a.m. to 8 p.m. Admission: \$3.50. Information: Gil Kleiner, (301) 554-2266.

April 3-4 Hydroponic Society of America Annual Conference

San Francisco, California. Information: Gene Brisbon, Secretary HSA, PO Box 6067, Concord, CA 94524, (415) 682-4193.

April 4 Symposium: Growing Wildflowers for All Seasons

New England Wild Flower Society, Framingham, Massachusetts. Hours: 8:30 a.m. to 3:00 p.m. Admission: by pre-registration only; \$50, non-members; \$45, members. Information: Symposium, New England Wild Flower Society, Garden in the Woods, Hemenway Road, Framingham, MA 01701.

April 4 & 11 Garden Club of Charleston Spring House and Garden Tours

Charleston, South Carolina. Information: Mrs. A. Jerome Blalock, Publicity Chairman, 137 Broad Street, Charleston, SC 29410.

April 5-8 Menninger Sunbelt Tree Conference

Cypress Gardens, Florida. Information: Jack Siebenthaler, PO Box 6524, Clearwater, FL 33518, (813) 446-3356.

April 5-8 Williamsburg Garden Symposium

Williamsburg, Virginia. Registration: \$140.00 per person. Information: Forums Registrar, Colonial Williamsburg Foundation, PO Box C, Williamsburg, VA 23187, (804) 220-7281.

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Q: "REALLY? WHAT'S A WONDERLITE?"

A: Well, the Wonderlite is completely unique because it is the only plant light that has two important features together in the same bulb. It has a wide and balanced spectrum that extends from the blues (380 nanometers-nm) to the far-reds (730nm) which actually has been proven to make plants grow and flower. This occurs because the Wonderlite uses two sources of light; one strong in blues and the other in reds, plus a special phosphor. Secondly, Wonderlite can be screwed into existing sockets (no installation costs) and because of this versatility you can use it on your large expensive plants or an entire collection of smaller ones, and you can have plants virtually anywhere you want them.

Q: Yes, but how does this make Wonderlite so different from other plant lights or fluorescents?

A: Other screw-in bulbs use one source of light and are deficient in either the blue or red portion of the spectrum. For example, most of the bulbs labeled as "plant lights" are really incandescent lights which are strong only in the yellow-red (560-650nm) area of the spectrum and have a sprayed-on blue coating inside the glass of the bulb. This coating actually cuts down the brightness or intensity of the light, and only improves the spectrum to a minimal degree. Mercury vapor lamps peak in the violet-blue range of the spectrum and are weak in the red wavelengths, so they too do not have a full spectrum. They also require an electrician to install and are very expensive. It is true that some fluorescent tubes do have a balanced spectrum but they require a means of putting the tubes right over the plant as they are not completely effective at distances greater than 2½-3 feet. This makes them insufficient for large plants. Besides, fluorescent fixtures are ugly and decoratively unsuitable for most places. Other lights used commercially by nurseries such as high or low pressure sodium vapor or metal halide also need external ballasts and have installation expenses. The brightness and color of light emitted from these bulbs are very displeasing making them decoratively unacceptable too. Did I mention before, that Wonderlite makes plants look beautiful and is compatible with natural light as well as most other indoor lighting?

Q: That's some comparison! But tell me, what's really so important about a "balanced spectrum?"

A: What we see as visible light is only a very small part of the vast electromagnetic spectrum from radio waves to gamma rays. Radiations in the visible light spectrum are measured in wavelengths called nanometers(nm). All biological activity for life depend upon these wavelengths. Plants use different wavelengths of this spectrum in many ways. For example: photosynthesis, the conversion of light energy to chemical energy takes place between 440-490nm (blue) and also between 650-680nm (red). Flowering may be triggered in the photochrome molecule through wavelengths of 660-730nm. Plants have many photoresponses which we hope you will investigate, but these examples illustrate the necessity of a balanced spectrum to satisfy all the needs of a healthy plant.

Q: How much does a Wonderlite cost?

A: \$39.50. In comparison, a fluorescent set up of four 40 watt tubes (to match one Wonderlite of 160 watts) and a fixture is about \$70.00. A normal mercury vapor bulb, ballast and fixture lists at about \$89.00 plus installation costs. Both have considerable drawbacks as we mentioned before. When you think about it, Wonderlite is really fairly priced. There is no other plant light that provides so much.

It can be screwed into existing sockets such as track lights, clip-ons or any free-standing fixture, and requires no installation costs; it has a proven full spectrum for both growth and bloom; it is unconditionally guaranteed for one year and when used properly (at least 8 hours between switch-offs) is rated well over 10,000 hours.

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AHS 42nd Annual Meeting
May 13-16, 1987
New York City



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April 11
Annual Georgetown Garden Tour
 Washington, D.C. Hours: 10:30 a.m. to 5 p.m. Admission: \$8.50 through April 17; \$10 thereafter. Information: Georgetown Children's House, 3224 N Street, NW, Washington, DC, 20007, (202) 333-6252 or 6896.

April 11-May 3
Maryland House and Garden Pilgrimage
 Information: Maryland House and Garden Pilgrimage, 1105-A Providence Road, Towson, MD 21204

April 12-15
International Symposium on Horticulture and Human Health
 American Society for Horticultural Science, Arlington, Virginia. Information: ASHS, 701 North St. Asaph Street, Alexandria, VA 22314, (703) 836-4606.

April 12-20
FLORIS '87, International Flower Show
 Haifa, Israel. Information: FLORIS 87, Mr. Shumel Bialik, Floris General Manager, Israel Exhibitions, Ltd., Municipality Blvd., 14 Hassan Shukry Street, Haifa, Israel.

April 13
Rare Plant Auction
 Sponsored by the Wilmington Garden Center, Longwood Gardens, Kennett Square, Pennsylvania. Hours: 6 to 10 p.m. Admission: \$30 (\$100 per couple for patrons). Information: The Wilmington Garden Center, 503 Market Street Mall, Wilmington, DE 19801, (302) 658-1913.

April 14-18
Wildflower Week at Cheekwood
 Cheekwood Botanical Gardens and Fine Arts Center, Nashville, Tennessee. Hours: Tuesday through Saturday, 9 a.m. to 5 p.m.; Sunday, 12 noon to 5 p.m. Admission: Adults, \$2.50; Children ages 7 to 17, \$1. Information: Cheekwood Botanical Gardens and Fine Arts Center, Forrest Park Drive, Nashville, TN 37205.

April 14-19
American Iris Society Annual Meeting
 Phoenix, Arizona. Information: Vicki Day, 5244 W. Sunnyside Drive, Glendale, AZ 85304.

April 18-26
Historic Garden Week in Virginia
 Information: Historic Garden Week Headquarters, 12 East Franklin Street, Richmond, VA 23219, (804) 644-7776. Please send \$1 to request guidebook.

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April 23-25**American Daffodil Society Annual Show & Convention**

Hyatt on Capitol Square, 75 E. State Street, Columbus, Ohio. Information: Mrs. James Liggett, Chairman, 4126 Winfield Road, Columbus, OH 43220, (614) 451-4747.

April 25-26**Spring Iris Show**

Fashion Park Mall, Arcadia, California. Hours: Saturday, 12 noon to 6 p.m.; Sunday, 12 noon to 5 p.m. Admission: free. Information: Ms. Kay Yee, Publicity, Southern California Iris Society, 3289 N. Olive Ave., Altadena, CA 91001.

April 27-29**Azalea Society of America Convention and Annual Meeting**

Eugene, Oregon. Information: Otto Henrickson, 32316 Wilson Creek Road, Cottage Grove, OR 97424.

April 30-May 3**American Rhododendron Convention**

Valley River Inn, Eugene, Oregon. Information: Tom & Emma Bowhan, 27194 Huey Lane, Eugene, OR 97402.

May 2**Wilmington Garden Day**

Greater Wilmington area, Wilmington, Delaware. Hours: 10 a.m. to 5 p.m. Admission: \$12. Information: Mrs. Virginia Hunter, 604 Mt. Lebanon Rd., Wilmington, DE 19803, (302) 478-5878.

May 2-3**Wildflower, Plant, and Seed Sale**

The Brandywine River Museum, U.S. Rt. 1, Chadds Ford, Pennsylvania. Hours: 9:30 a.m. to 4:30 p.m. Information: The Brandywine Conservancy, PO Box 141, Chadds Ford, PA 19317, (215) 388-7601 or 459-1900.

May 9-10**Herb & Perennial Weekend**

Wrenwood Nursery, Berkeley Springs, West Virginia. Information: Wrenwood, Route 4, Box 361, Berkeley Springs, WV 25411.

May 11-15**Mexican Society for Horticultural Science Congress**

Irapuato, Guanajuato, Mexico. Information: Dr. Jose L. Barrera, Univ. de Guanajuato, Escuela de Agronomia y Zootecnia, Apartado Postal 311, Irapuato, Guanajuato, Mexico.

May 12-16**AHS Annual Meeting**

New York, New York. Information: Elizabeth Smith, AHS, PO Box 0105, Mount Vernon, VA 22121, (703) 768-5700.

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AHS What's Happening

It's almost spring, one of the most exciting times of the year for gardeners. Here at River Farm, we have been busy all winter planning many interesting activities for the months ahead to entice gardeners of all levels of expertise. Unless otherwise indicated, all events will be held at River Farm, 7931 East Boulevard Drive, Alexandria, Virginia.

Please take the time to make note of these upcoming AHS events for 1987:

AHS 1987 Spring Symposium on Water Gardening. April 4 and 5, 8:30 a.m.-4:15 p.m. National Wildlife Federation's Laurel Ridge Headquarters, 8925 Leesburg Pike, Vienna, Virginia. (See program schedule on page 15.) Water gardening enthusiasts will not want to miss this year's special symposium, featuring international experts in this fascinating field.

AHS 42nd Annual Meeting. May 12-16. Omni Park Central Hotel, 870 Seventh Avenue at 56th Street, New York City. Gardening in the city will be the emphasis of this year's Annual Meeting. Special tours, lectures by horticultural experts, panel discussions, and presentations of the AHS Awards for 1987 will be included in this exciting meeting. (Registration form for the meeting is on page 23.)

Spring Festival at River Farm. May 31, 11 a.m.-4 p.m. Our annual spring festival will feature the beautiful River Farm gardens in their glory, plus plants of numerous kinds (some quite unusual) and gardening items for sale, plant society booths, arts and crafts, water garden demonstrations, plant experts to answer your gardening questions, and refreshments for sale.

Daylily/Lily Day. June 27, 10 a.m.-4 p.m. Enjoy our display of over 100 daylily cultivars, which represent a joint project of the American Horticultural Society and the American Hemerocallis Society. Also, view the lilies in our collection, which number over 150, and are planted and tended by AHS and the North American Lily Society. Experts will be on hand to answer questions.

Dahlia Day. September 12, 10 a.m.-4 p.m. River Farm is one of the nine official American Dahlia Society test gardens in the country. Our collection features over 160 dahlias, which are sure to be blooming splendidly at this time. Dahlia experts will be on hand to answer questions.

Autumn Festival. October 4, 11 a.m.-4 p.m. The annual autumn festival is always a special delight, with the chrysanthemums and dahlias in spectacular bloom. Plant societies as well as arts and craftspeople will hold exhibits, and gardening books, plants, and bulbs will be sold. Refreshments will also be available for sale, and gardening experts will be on hand to answer questions.

Christmas Open House. December 13, 11 a.m.-4 p.m. This holiday Open House is a treat for our visitors, offering Christmas greens, decorations, holiday plants, bulbs, and fresh-cut Christmas trees for sale. Refreshments will be served in the parlor, and holiday music may be enjoyed by all.

We hope you will be able to enjoy some, and perhaps all, of the fun-filled, educational events planned for this year. If you have any questions or would like more information about any of them, please write or call me at the Society: Sharon Barnes, P.O. Box 0105, Mount Vernon, VA 22121, (703) 768-5700.

—Sharon Barnes,
Public Relations Director

AHS Co-sponsors 1987 Spring Symposium on Water Gardening

April 4 & 5, 1987

**National Wildlife Federation
8925 Leesburg Pike
Vienna, Virginia**

The American Horticultural Society, the Water Lily Society, Lilypons Water Gardens, The National Wildlife Federation, Friends of the National Arboretum, and Brookside Gardens are pleased to offer a special symposium on today's exciting world of water gardening.

Experts from across the United States and England will share the latest developments in water gardening, including information on:

- Design, construction, and maintenance.
- Water lilies, lotus, and companion plants.
- Koi and other exotic fish.
- Propagation, conservation, and environmental balance.

Water gardening enthusiasts will want to read the program below carefully and register right away. For questions about the symposium, please call Sharon Barnes or Steven Davis at the American Horticultural Society; (703) 768-5700.

Program

Saturday, April 4

8:30 a.m. Registration.

9:30 a.m. Welcome and Introduction. Steven Davis, Director of Horticulture, American Horticultural Society.

9:45 a.m. "Water Lilies, Lotus, and Companion Plants." Charles Thomas, President, Lilypons Water Gardens, Frederick, Maryland.

10:30 a.m. "How to Construct and Maintain Your Water Garden."

Robert DeFeo, Horticultural Supervisor, Kennilworth Aquatic Gardens, National Capital Parks East, Washington, D.C.

11:15 a.m. Coffee Break.

11:45 a.m. "The Philosophy of Water Gardening." Henry Mitchell, Author and Columnist, Washington, D.C.

12:30 p.m. Lunch.



1:30 p.m. "Environmental Balance in the Aquatic Garden." Rolf Nelson, General Manager, Lilypons Water Gardens, Brookshire, Texas.

2:15 p.m. "Water Gardens Around the World—A Special Tour." Perry D. Slocum, President, Perry's Water Gardens, Franklin, North Carolina.

3:00 p.m. Coffee Break.

3:30 p.m. "Koi and Other Exotic Fish for the Water Garden." Bill Otto, Co-owner of B & T Distributors (international koi distributors), Scottsdale, Arizona.

4:15 p.m. Adjourn.

Sunday, April 5

8:30 a.m. Registration.

9:30 a.m. Welcome and Introduction. Charles Thomas, President, Lily-

pons Water Gardens.

9:45 a.m. "How to Design that Special Water Garden." Norman Kent Johnson, Principal Landscape Architect, Gardenmakers, Inc., Birmingham, Alabama.

10:30 a.m. "Propagate Today—Enjoy Tomorrow." Patrick Nutt, Foreman in Charge of Plant Collections, Longwood Gardens, Kennett Square, Pennsylvania.

11:15 a.m. Coffee Break.

11:45 a.m. "Marsh Vegetation as an Erosion Control." Maggie Briggs, Ecologist, U.S. Army Corps of Engineers, Baltimore, Maryland.

12:30 p.m. Lunch.

1:30 p.m. "Plant Conservation for the Aquatics." Philip Swindells, Curator, Northern Horticultural Society's Gardens at Harlow Car, Harrogate, England.

2:15 p.m. "The Romance of the Water Garden through the Ages." Jolanda Goldberg, Co-owner and Sculptor, Studio The Free Form, Alexandria, Virginia.

3:00 p.m. Coffee Break

3:30 p.m. "The Water Garden—A Special Wildlife Habitat." Craig Tufts, Director of Nongame and Urban Wildlife, National Wildlife Federation, Washington, D.C.

4:15 p.m. Adjourn.

Registration Form

**REGISTRATION DEADLINE: March 20, 1987.
(Advance Registration Required.)**

Name(s): _____

Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: Home (_____) _____

Telephone: Business (_____) _____

Member of: ☐ AHS ☐ WLS ☐ NWF ☐ FONA or ☐ Lilypons' clientele

Please make check payable to the American Horticultural Society and return with your registration form to: **Water Gardening Symposium, AHS, P.O. Box 0105, Mount Vernon, VA 22121.** When your registration form is received, a confirmation will be sent to you along with a map to the National Wildlife Federation in Vienna and a list of local accommodations. Free parking is available at the meeting facilities.

ONE-DAY REGISTRATION:

- ☐ Saturday, April 4 or
☐ Sunday, April 5
☐ \$65 Non-member
☐ \$55 Member
 (Box lunch included.)

REGISTRATION FOR BOTH DAYS:

- ☐ Saturday, April 4 and
 Sunday, April 5
☐ \$125 Non-member
☐ \$100 Member
 (Box lunches included.)

New Introductions for 1987

A self-pollinating kiwi, and several new *Magnolia* cultivars are just a few of the exciting new introductions to look for in 1987.

Stark Brothers has introduced a new 'Granny Smith' apple cultivar that is hardy even in parts of Zone 5. Called 'Starkspur Earlee Grannee', this new cultivar is a sport of 'Granny Smith' that requires only 165 frost-free days. In the south, this new cultivar ripens weeks before 'Granny Smith'. 'Starkspur Earlee Grannee' bears abundant crops in Zones 6 to 9 and the warmer parts of Zone 5.

Home fruit growers will also want to try the first hardy kiwi that is self-pollinating. 'Issai' (pronounced eh-SIGH) will produce good crops of fruit without a non-producing male plant nearby for cross pollination. In addition, this new cultivar, also from Stark Brothers, will bear its first crop of fruit by the second year. Most hardy kiwis take three to four years to bear after planting. Hardy in

Zones 4 to 7, 'Issai' bears hairless, 1½-inch fruit that has a delicate, sweet taste.

Rose lovers will want to consider 'Lavender Jade', a new miniature rose from Nor'East Miniature Roses. This new cultivar has lavender petals marked with cream, and bears lovely, hybrid-tea-type blooms. Best of all, 'Lavender Jade' is very fragrant and the plants are very vigorous. Plants reach a height of 15 to 18 inches.

Also from Nor'East Miniature roses is 'Sunny Day', an excellent cultivar for the garden that will provide color in spring, summer, and fall. This new miniature bears bright yellow flowers; when grown in full sun the petals are flushed with red. The 12- to 14-inch bushes are symmetrical and compact.

Hosta fanciers will want to investigate some of the new cultivars available from Klehm Nursery. 'Thumb Nail', hybridized by former AHS Board Member Harold Epstein, is just

one of the new Klehm offerings. It is a green-leaved plant that bears lilac flowers in midsummer. Although it is a very vigorous grower, 'Thumb Nail' is one of the smallest hostas available.

Louisiana Nursery has introduced several exciting new magnolias, including *Magnolia quinquepeta* 'Holland Red', an attractive cultivar that bears very large, deep purple-red blooms. 'Holland Red' is a shrub or small tree that reaches 10 feet in height and between 10 and 12 feet in width. The blossoms have a spicy fragrance and appear late in spring, after danger of frost is past. This new magnolia also produces flowers off and on throughout the summer. *M. quinquepeta* (sometimes listed as *M. discolor* and *M. liliiflora*), will grow well in both the north (to Zone 6) and south.

Magnolia 'Darrell Dean' is a new Gresham hybrid available from Louisiana Nursery this year. This new cul-

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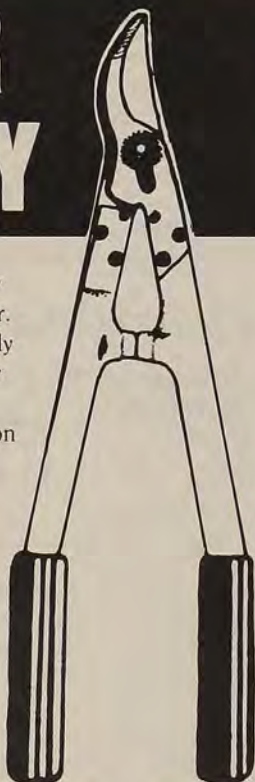
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tivar bears wine-red flowers that are 12 inches across. The blooms appear late enough in spring to escape most late freeze damage.

Magnolia × *loebneri* 'Donna' is a new cultivar developed by Harry Heineman of Scituate, Massachusetts. 'Donna' bears fragrant, pure white flowers that are eight inches across. An upright, bushy shrub or small tree that will reach approximately 15 feet in height, 'Donna' does equally well in Louisiana and Massachusetts. It is also being introduced by Louisiana Nursery.

Petunia 'Purple Pirouette' is one of the exciting new annuals that earned an All-America Selections award for 1987. This new cultivar is the first double petunia with a pure white petal edge. The fully double, grandiflora-type blooms reach 3½ to four inches across. The plants are compact and are suitable for growing in pots or in the garden. 'Purple Pirouette' will be available as seed from mail-order catalogues, and as plants from garden centers and nurseries across the country.

Sanvitalia 'Mandarin Orange' is another All-America Selections winner. An annual that will spread 12 to 15 inches, this new cultivar bears bright orange, semi-double blossoms that are one inch across. 'Mandarin Orange' is the first *Sanvitalia* with or-

ange flowers—most *Sanvitalia* selections produce yellow flowers.

Sanvitalia is a little-known annual that has a spreading habit, makes it suitable for use as a ground cover. It can also be used in pots, and, once established, it thrives in hot, sunny locations with little garden maintenance. Like 'Purple Pirouette', *Sanvitalia* 'Mandarin Orange' will be available as seed from mail-order catalogues, and as plants from garden centers and nurseries across the country.

Sources

As stated in the article, *Sanvitalia* 'Mandarin Orange' and *Petunia* 'Purple Pirouette' will be available as seed from mail-order catalogues and as plants from garden centers and nurseries across the country. The other new introductions listed above are available from the following companies:

- Stark Brothers Nurseries and Orchards, Box X9851G, Louisiana, MO 63353, catalogue free.
- Nor'East Miniature Roses, Inc., 58 Hammond Street, Rowley, MA 01969, catalogue free.
- Klehm Nursery, Route 3, Box 289, Champaign, IL, 61821, catalogue \$2.
- Louisiana Nursery, Route 1, Box 43, Opelousas, LA 70570, catalogue \$3.50.

Wanted: Unique Landscapes

Weeds, Trees & Turf magazine is planning on implementing a monthly landscape design feature, and is looking for parties interested in submitting their project for consideration. The feature will consist of three to six color photos of outstanding examples of landscape design/installation done by companies across the country, and will include written descriptions of the projects.

Landscape contracting and/or design firms are invited to submit descriptions, along with color slides of their unique or award-winning projects. Projects should fit into one of the following categories: annuals for spring color, hardscaping (patios, pools, etc.), interiorscaping, creative use of shrubs, aquatic scaping, use of native plant materials, use of various "hard" materials (benches, swings,

etc.), nightlighting, annuals for fall color, creative use of trees, fountain design and surrounding landscape, and winterscaping. Entire projects which demonstrate exceptional landscape design will also be considered.

Each description should be one double-spaced page in length and should include the client's name, designer's and installer's names, awards won, what the client wanted to accomplish, how the designer/contractor interpreted the project, problems, types of plants and hard materials used, cost, time the project took, and date completed. Accompanying slides cannot be returned.

Interested parties should submit entries to Heide Aungst, *Weeds Trees & Turf*, 7500 Old Oak Blvd., Cleveland, OH 44130.

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Enzymes a Growth Miracle?

by Pat Branin (Branin was the organic gardening columnist for the *San Diego Union*.)

Some readers will remember a story published in the *San Diego Union* April 6 reporting a new soil conditioner made from enzymes. The first inkling I had concerning this product for gardening and commercial agriculture came from *Acres, USA*, a farmer's newspaper published monthly in Raytown, MO.

The editor and publisher, Charles Walters, Jr., gave permission to quote the story about Frank Finger, a biodynamic farmer near Larned, Kan., and his experiments with enzymes on his soybean and alfalfa fields.

The difference between an inkling of information and an in-depth probe is about the same as Mark Twain's definition of the difference between a lightning bug and lightning. So when the opportunity offered, I made a trip to Frank Finger's farm.

There I set foot on the first enzyme-treated soil I have ever knowingly trod upon. All of central and eastern Kansas looks like a beautifully planned and meticulously maintained park, and Frank Finger's farm seemed to have an extra glow of well-being.

To understand what agricultural enzymes are and what they do, you must first know what they are not. Enzymes are not a fertilizer nor a plant nutrient.

They are a catalyst in the form of positively charged electrical particles called ions. They have been on Earth since the beginning of time. Without enzymes, life could not happen in any form, so there's no question of which came first, as in the chicken or the egg argument. Enzymes came first.

The importance of enzymes to animal life has been known for centuries, but their adaptation for improving the soil is a very recent discovery. Research on enzymes for many different uses is going on at a fast rate throughout the world under the general name of enzymology.

Used over a period of time, enzymes can relieve problems of shallow soil by penetrating hardpan and even marl. Finger demonstrated this on a field where he had hardpan near the surface. He pushed a 3/8 inch steel rod its full length of 36 inches into the ground without effort. This could be a boon to hundreds of thousands of acres of land in Southern California.

Agricultural enzymes also will detoxify soils that

have been chemicalized to death with inorganic fertilizers, herbicides and pesticides. They also will adjust the acid-alkaline balance to a favorable pH 6.5 to 7, which nearly all plants prefer. Even high alkali soils can be restored to production.

They will cause heavy soils to flocculate (to loosen and break down) so the structure is loose and plants can develop a more massive root system and irrigation water or rain can penetrate more quickly, evenly and deeply.

Perhaps the most important thing of all that enzymes do is improve the soil's "cation-exchange" capacity. Cation-exchange means the release of the natural minerals and plant nutrients by unlocking them and converting them to a form the plant can use to make its food by photosynthesis.

No matter how bad your soil is, it is almost certain that you have considerable ancient minerals and trace elements which it needs but which are locked in by an imbalance caused by a lack of organic material and enzymes. By adding both to the soil, the enzymes supply the magic key to unlock these things and thereby adjust the cation-exchange capacity.

Researchers have identified about 8,000 types and species of enzymes and all of them serve different purposes. No doubt mankind is just beginning to understand life processes, and learning to control them will be beneficial. We will likely see enzymes at work in medicine, animal husbandry, pollution control and sewage purification.

Whether you are a giant agricultural producer or just a little guy like me with a small city lot, you can be sure that enzymes are going to make your soil healthier and more productive.

More meaningful to you will be the following experiences of hard-headed farmers with a "show-me" attitude. These are all exact quotes, because some of the reports are spectacular and I don't choose to be accused of stretching things.

Joseph B Mahaney of the Colorado-New Mexico Land Co. in Pueblo says:

"Nitron was applied to a 50-acre, second-year hay field; the east one-third was poorly drained. The year following alfalfa planting we cut 800 bales the first cutting and considered plowing it out. I decided to test Nitron on the bad side of that field. The next season the field had alfalfa in places we had seeded

twice, and we got more penetration in the same irrigation time with less runoff. The happy part was 4,000 bales the first cutting."

Robert Herlocker of Girard, Kan.:

"I applied Nitron to 200 acres of soybean ground at the rate of 1/2 gallon per acre in two applications. They received approximately 1 1/2" of rain before harvest; the normal for this period is 5 inches. Even though these beans were hailed on, there was no lodging (bruising or loss of foliage), and the 200 acres averaged 35 bushels per acre."

Frank Finger's wife, Gay, takes care of the vegetable garden, shrubs and house plants:

"Last spring I sprinkled my row of carrot seeds with 1 1/2 gallons of water with 1/4 cup of Nitron added before covering the carrots. In five days the carrots were up so thick I had to thin them several times. We ate them through the season and mulched them when freezing weather came. We have been digging and eating them all winter."

Also, she has a cucumber story: "I accidentally over-treated one of my cucumber plants with a mixture of half water and half Nitron which I had intended to dilute; however, I watered the area deeply and that cucumber plant took over the whole patch. One day in July I picked 79 from it and picked 50 on each of three other days that week. I pulled up all my other cucumber plants to give this one room to spread."

There are many other stories about enzymes that border on fantasy. Perhaps I can tell about them later. Richard G. Wellman, my wife's brother, farms several thousand acres near Alden, Kansas. He visited the Finger farm with me and listened to Frank's rapid-fire enthusiasm.

When we were ready to leave for home, Wellman had decided to treat a problem field down on the bank of the Arkansas River which is so alkaline it has never produced anything. I hope to report his experience with enzymes on that land. I expect it will be positive.

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Large Selection of Perennials for sun and shade. Tall, Medium and carpeting Sedums. Extensive collection of annual and perennial herbs. Catalog \$1.50. WRENWOOD, Rte. 4, P O Box 361, Berkeley Springs, WV 25411.

We offer a good selection of sturdy plants. Send \$1.00 for Plant List (refundable). CAMELOT NORTH, R2, Piquet Lakes, MN 56472.

FINE PERENNIALS for the discriminating gardener at affordable prices. \$1.00 (refundable) for informative catalog **INDIGO KNOLL PERENNIALS**, 16236 Compromise Ct., Dept. AH, Mount Airy, MD 21771.

Unusual **ROCK & SHADE** Plants, Hosta, Hemerocallis, Sempervivum, Shrubs, Iris & Native Americans. Perennial Seed. 24 Page Catalog Send 44¢ stamps. ROCKNOLL NURSERY, 9210 U.S. 50, Dept. 33, Hillsboro, OH 45133-8546.

PLANTS—CHOICE AND AFFORDABLE

Extensive Selection: ★ American Natives ★ Outstanding Ornamentals ★ Uncommon Conifers ★ Perennials ★ Potential Bonsai ★ Hardest Eucalyptus ★ Wildlife Plants ★ Affordable containerized starter-plants. Informative catalog—\$2.00. FORESTFARM, 990 Tetherah, Williams, OR 97544.

PLUMERIA! GINGERS! HIBISCUS! BOUGAINVILLEAS!

ALSO DAYLILIES, TROPICAL BULBS, BOOKS. A COLLECTOR'S DREAM CATALOG OF EASY-TO-GROW EXOTIC PLANTS—\$1.00. HANDBOOK OF PLUMERIA CULTURE—\$4.95. RELIABLE SERVICE, GROWING INSTRUCTIONS, SPECIALTY FERTILIZERS. PLUMERIA PEOPLE, PO Box 820014, Houston, TX 77282-0014.

POSITION AVAILABLE

PROGRAM DIRECTOR AND INSTRUCTOR, Horticulture/Landscape Architecture Program. Seeking person for two-year transfer and occupational program. Oversee 1,500-square-foot greenhouse and small tree nursery. Instructional areas include Greenhouse Design Management, Plant Materials and Propagation, and introductory courses in Horticulture/Landscape Architecture. Position involves duties normally required of full-time faculty members. Begins August 15, 1987, or earlier. Minimum of master's degree in horticulture or landscape architecture. Salary based on education, experience according to schedule (range \$20,000-\$35,000). Send letter of application, resumé, transcripts, three references and any appropriate information to Helen Johnston, Personnel Officer, Northwest Community College, 231 W. 6th St., Powell, Wyoming, 82435. Applications received after March 15, 1987, will be considered at discretion of college. Northwest is a two-year, largely residential college of 2,000

students (about 1,000 full-time on-campus). Northwest's 100-acre campus includes 12 instructional buildings, five residence halls, married student housing and Student Center. Located in northwest Wyoming. Powell is a city of 6,000, the economy of which is based primarily on oil, farming, ranching and education. NWCC is fully accredited by the North Central Association. EOE.

RARE BULBS

ISMENES, Spider Lilies, Aztec Lilies, Hymenocallis bulbs. Price list on request. Descriptive brochure, \$1.50. SHIELDS HORTICULTURAL GARDENS, PO Box 92, Westfield, IN 46074.

RARE PLANTS

RARE AND UNUSUAL PLANTS—otherwise commercially unavailable—for botanic collections, landscaping, home, office—130 Bamboo, including giant, medium-sized, dwarf, green and variegated, 90 cycads, 180 palms, 1,000 plant and gardening books. Three seasonal catalogs \$5. ENDANGERED SPECIES, PO Box 1830, Tustin, CA 92681-1830.

RHODODENDRONS

RHODODENDRONS for the woodland, landscape, and rock garden. Free descriptive listing. CARDINAL NURSERY, Rte. 1, Box 316M, State Road, NC 28676; (919) 874-2027.

RHODODENDRONS & AZALEAS

SPECIALIZING IN THE UNUSUAL. Dwarf Rhododendrons, Evergreen & Deciduous Azaleas, Dwarf Conifers, Companion Plants. Catalog \$1.00, refundable. THE CUMMINS GARDEN, 22 Roberts-ville Rd., Marlboro, NJ 07746. (201) 536-2591.

RHODODENDRONS AND AZALEAS—Select from 1,000 varieties with many new exciting introductions. Also Laurel, Andromeda, Holly, Conifers, Rare Plants and Trees. Mail-order catalog \$2.00. ROSLYN NURSERY, Dept. AH, Box 69, Roslyn, NY 11576. (516) 643-9347.

Rhododendrons, Azaleas, Kalmia in small sizes for the collector. FREE catalog. E. B. NAUMAN, 688 St. Davids Lane, Schenectady, NY 12309.

HARDY RHODODENDRONS & AZALEAS. Northern grown and acclimated. Big sizes! Big selection! Personal service! For Gardeners and Designers Who Care Two Year Catalog Subscription: \$2.00 (deductible). CARLSON'S GARDENS, Box 305-AHR387, South Salem, NY 10590. (914) 763-5958.

ROCK GARDEN PLANTS

Rare Alpines, Wildflowers, Dwarf Conifers, Groundcovers, Colorful Rock Plants, Hardy Rhododendron, Books. Catalog \$1. RICE CREEK GARDENS, 1315 66th Ave. NE, Minneapolis, MN 55432. (612) 574-1197.

ROSES

HORTICO ROSES, in good supply and at reasonable rates. Select from these winners:

Hybrid Tea: Alec's Red, Ave Maria, Bimboro, Blue River, Burgund 81, Folklore, Fragrant Charm, Gallivarda, Ingrid Bergman, Kardinal (new), Keepsake (Esmeralda), Landora, Maid of Honour (new), Maria Stern, Polar Star (new), Mme Marie Curie (Quebec), Quinella, Uncle Joe.

Floribunda: City of Leeds, Cordula, Fragrant Garden, Iceberg, Leersum, Orange Wave, Paddy McGredy, Fire Magic, Sexy Rexy (new), Tabris (new), etc., etc.

Shrub Roses: A fabulous new series of English shrub roses awarded to us by David Austin Roses of England.

Free list on request. **HORTICO, INC.**, R.R. #1, Waterdown, Ontario L0R 2H0 Tel: 416/689-6984.

SEEDS

HUDSON'S WORLD-FAMOUS CATALOG, since 1911, offering thousands of unusual seeds from every continent. Fragrant Jasmines, elegant Angel's Trumpets, Baobab, Teosinte. Himalayan, African, Australian wildflowers. Rare culinary and medicinal herbs. American heirloom, European, Oriental and traditional Mexican Indian vegetables. Hundreds of exclusives. Information-packed catalog \$1.00. J. L. HUDSON, Seedsman, Box 1058-AT, Redwood City, CA 94064.

World's largest watermelon and cantaloupe varieties from Guinness record holder. Seeds \$1.50/dozen. GIANT WATERMELONS, PO Box 141, Hope, AR 71801.

GROW SOMETHING NEW-UNIQUE—Amaranthus, Hot/Cool Season Vegetables, many Oriental greens, Radish with foot long edible Seed-pod. Veggies from many countries, Forage Turnips, Kales. Seedlist-free. Informative Catalog, 50¢. GREENLEAF SEEDS, POB 98, Conway, MA 01341.

RARE PETER PEPPER realistic shape, hot, delicious. Only source for seed, \$3 plus stamped envelope. ALFREY, Box 415, Knoxville, TN 37901.

THE WORLD'S LARGEST and most famous seed catalog. Over 225 pages, 4,000 varieties, 1,000 color pictures. A major book of reference. The Encyclopedia of how and what to grow from seed. Vegetables, potted plants, exotics, perennials, alpines, rockery, latest and best annuals, trees, shrubs, bulbs from seed; includes rare items unobtainable elsewhere. Write for free copy, allowing three weeks, or enclose \$2 for first-class mail: THOMPSON & MORGAN, INC., Dept. AHC, PO Box 1308, Jackson, NJ 08527.

SEMPERIVUM & SEDUM

HEN & CHICKS. Over 400 varieties, plus 75 SEDUMS. Sampler 12/\$10.45. Catalog 50 cents, FREE with order. ALPINE GARDENS, 15920A S.W. Ob-erst, Sherwood, OR 97140.

SWEET POTATO PLANTS

Sweet Potato Plants for Sale. Booking Orders. 12 Varieties, write. FRED'S PLANT FARM, Dresden, Tennessee 38225.

VIDEOTAPES

INCREASE YOUR GARDENING KNOWLEDGE. Thirty outstanding gardening videotapes. Priced \$13.95 Up. Free Catalog 1-800-331-6304. California Call Collect (415) 558-8688. The Original Gardeners Video Catalog, PO Box 410777, Dept. 8-A, San Francisco, CA 94141.

WILDFLOWERS

SOUTHEASTERN WILDFLOWERS FOR THE GARDEN AND NATURALIZING. All top quality nursery propagated plants. Catalogue \$1.00, refundable. NICHE GARDENS, Dept. A, Rte. 1, Box 290, Chapel Hill, NC 27514.

WILDFLOWERS! Naturalize areas around your home. Easy-to-grow SEEDS/PLANTS. COLOR CATALOG — \$1.00. PASSIFLORA, Box 99, Germantown, NC 27019.

Easy, reliable, NURSERY-GROWN WILDFLOWERS. Colorful selections for northern and southern gardens, sun or shade, wet or dry. Bloom frost to frost. FREE BOOKLET. Plant descriptions, growing instructions. Suggestions for landscape uses and plant combinations. SUNLIGHT GARDENS, Rte. 3, Box 286-AH, Loudon, TN 37774.

WILDFLOWERS OF THE US—It's easy to grow beautiful wildflowers in your own backyard. Our 32-page illustrated catalog tells you what to plant and how. \$1. MOON MOUNTAIN-AH, PO Box 34, Morro Bay, CA 93442.

AHS

Travel Program

Capability Brown's England and the Chelsea Flower Show (May 18-June 1). The name Capability Brown is synonymous with the magnificent open parks and woodlands of England. His influence is also apparent in some of the great houses and surrounding gardens for which he was architecturally and aesthetically responsible. Our two-week tour will include visits to some of these treasures, with private tours conducted by the owners or head gardeners. We will also visit some smaller and more private estates, many of which are not known to the general public. A trip to the Chelsea Flower Show on Press Day will round out this exciting tour.

Lost and Found: Formal Gardens of England (June 17-July 2). Discover some of England's most fantastic formal gardens, including the grand Powis Castle, the leafy Melbourne Hall and the flowery enclosures of cozy Tudor manor houses. We will also tour Packwood House and view its magnificent topiary yew, as well as Sutton Hoo and its lavish contemporary emblematic garden. Leader: Mac Griswold, garden writer and historian.

In Search of Gertrude Jekyll II (July 7-22). 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 horticulturists who will share with us their knowledge and affection for the work of Gertrude Jekyll. Leader: Mac Griswold, garden writer and historian.

YES! Please send me more information on the tours I have checked below.

- ☐ England and the Chelsea Flower Show
- ☐ Formal Gardens of England
- ☐ In Search of Gertrude Jekyll

Name _____

Address _____

City _____ State _____ Zip _____

MAIL TO: Elizabeth Smith, American Horticultural Society, PO Box 0105, Mount Vernon, VA 22121.

AHS 42nd Annual Meeting



The Enid A. Haupt Conservatory at the New York Botanical Garden

Allen Rokach

May 12-16, 1987, New York City

It's not too late to register for this year's Annual Meeting on gardening in the city! At the meeting, we will visit and learn about America's first landscaped public park—New York's Central Park—which was designed and built by Frederick Law Olmstead and Calvert Vaux. We will go behind the scenes of the New York Botanical Garden and the Brooklyn Botanic Garden, and study outstanding examples of community gardens in the heart of New York. We will see, first hand, the city's vest-pocket parks, beautiful garden atria, and roof-top and private townhouse gardens, as well as tour magnificent private and public gardens in and near New York City.

Learn from experts on urban horticulture and share ideas with fellow gardeners as you explore gardening in parks, penthouses, townhouses, atria, and estates, as well as public and private gardens.

Use the registration form on the next page to sign up now for this fact-filled, exciting meeting on gar-



The Japanese Garden at the Brooklyn Botanic Garden

Glenn Kapp

dening in the city. See the program in the January News Edition of *American Horticulturist*, or request an Annual Meeting brochure by writing: Annual Meeting, AHS, P.O. Box 0105, Mount Vernon, VA 22121.

AHS 42nd Annual Meeting Registration Form

HOTEL INFORMATION: Accommodations for out-of-town Meeting participants will be available at the Omni Park Central Hotel, 870 Seventh Avenue at 56th Street, New York, NY 10019, (212) 247-8000. When your registration form and check are received, we will send you a hotel registration card. Please return the card to the Omni Park Central Hotel; hotel staff will confirm your reservation.

Room rates for AHS Annual Meeting participants are \$87 (single), \$107 (double) or \$199 (suite). These rates do not include New York City Sales Tax and New York City Occupancy Tax. The hotel will not guarantee rooms for people registering for the AHS Annual Meeting after April 22. Late registrants may call the Omni Park Central Hotel at (800) 346-1359 (outside NY state) or (212) 484-3300 (within NY state) for hotel registration. All meeting registrations must be sent to AHS.

IMPORTANT: Registrations must be postmarked by April 22, 1987 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: theater outing on Wednesday, members' forum breakfast on Friday, and 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 April 22. WE CANNOT HONOR REFUND REQUESTS POSTMARKED AFTER APRIL 22, 1987.

HANDICAPPED FACILITIES: Handicapped facilities are available. Please check the appropriate box on the registration form below if these facilities are required.

CONTRIBUTIONS:

☐ Members who are unable to attend the Annual Meeting but who want to help support the Society's programs may do so by checking this box and sending a contribution to the address below. Please complete and send the coupon, also. Members giving \$250 or more will be recognized in the Annual Meeting Program

and at the American Horticultural Society's Awards Dinner as Sponsors of the 42nd Annual Meeting.

☐ Members who will be attending the Annual Meeting and wish to be recognized as a Sponsor, please check this box and send your contribution of \$250 or more, along with your registration, to the address below.

Please send payment in full for registration for the AHS Annual Meeting 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 check here if vegetarian meals are desired.

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
FULL REGISTRATION (Excludes all optional activities)						
May 12-16	\$330	_____	\$_____	\$370	_____	\$_____
PARTIAL REGISTRATION (Excludes all optional activities)						
Wednesday, May 13	85	_____	_____	95	_____	_____
Thursday, May 14	65	_____	_____	75	_____	_____
Friday, May 15	65	_____	_____	75	_____	_____
Saturday, May 16 (banquet included)	135	_____	_____	145	_____	_____
OPTIONAL ACTIVITIES: (Not included in full or partial registration fees)						
Wednesday, May 13						
<input type="checkbox"/> Theater outing to "Little Shop of Horrors"	\$30	_____	_____	\$30	_____	_____
Friday, May 15						
<input type="checkbox"/> Member's Forum Breakfast	24	_____	_____	24	_____	_____
Sunday, May 17 Concurrent All-Day Tours (Please choose one.)						
<input type="checkbox"/> Tour A: Manhattan Gardens	60	_____	_____	70	_____	_____
<input type="checkbox"/> Tour B: Gardens Outside the City	60	_____	_____	70	_____	_____
Monday, May 18						
<input type="checkbox"/> Private Gardens Tour	60	_____	_____	70	_____	_____
TOTAL ENCLOSED			\$_____			\$_____

CONCURRENT ACTIVITIES: (Included in registration fee). Advance registration is required. Please indicate number of registrants in box.

Please choose only one activity for each day.

Thursday, May 14

- ☐ Session A: NY Botanical Garden and Cloister Museum Gardens
☐ Session B: Brooklyn Botanic Garden and Prospect Park
☐ Session C: Private Gardening in Greater NY

Friday, May 15

- ☐ Session A: Central Park and the Olmsted Legacy
☐ Session B: Indoor Gardening

Saturday, May 16

- ☐ Tour A: Garden Tour of Long Island
☐ Tour B: Gardens In and Out of the City

New Publications

• *Trees, People and the Law.*

Many property owners have been confronted with legal problems regarding trees, ranging from questions about the rights of owners when a tree is located in an easement or right-of-way, to questions of responsibility when damage occurs as a result of tree limbs falling. As its title suggests, *Trees, People and the Law* covers the legal aspects of such problems. The book is actually a publication of the proceedings of a seminar held in Columbus, Ohio, in 1985 that was sponsored by the Ohio Chapter of the International Society of Arboriculture, the Cooperative Extension Service of The Ohio State University and the Council of Tree and Landscape Appraisers. It is by no means an exhaustive tome on the topic, but covers some important considerations that would be of concern to litigants in court cases. Contents include "The Consultant's Job from First Contact to Finished Report," "Pesticide Regulations," "Responsibilities and Liabilities of Tree Owners," and "Internal Revenue Service and Trees." Although most of the speakers were from Ohio, the information provided does cover local, regional, and national legal considerations.

This softcover book is published by the Ohio Chapter, International Society of Arboriculture, and is available for \$20, c/o The Dawes Arbore-

tum, 7770 Jacksontown Rd., S.E., Newark, OH 43055.

• **Soils.** One of the determinants of the relative health of any plant is good old, down-to-earth soil. As all gardeners know, soil serves as a source of nutrients, an anchor, and a reservoir for water and air. In order to better understand the hows and whys of healthy plant growth, gardeners will therefore want to learn everything there is to know about soils. Published by the Brooklyn Botanic Garden (BBG), this 79-page

manual is an invaluable resource that includes short articles on soil organisms, soil pH, mulch, improving sandy soils, and lead in soils, to name just a few. Articles are written by professionals in the fields of horticulture and soil science, and are illustrated with black-and-white photographs and line drawings. The handbook, which is available for \$2.25, plus \$.80 postage and handling (\$.15 for each additional handbook), is part of the BBG "Plants & Gardens" series. To order this handbook, write Brooklyn Botanic Garden, 1000 Washington Ave., Brooklyn, NY 11225.

National Garden Week Observed

Last year, a resolution passed in national legislation and signed by President Reagan officially established the second full week in April as National Garden Week. We extend our thanks to those of our members who wrote to their congressmen last year in support of National Gardening Week, and encourage all of our members to participate in this year's festivities during the week of April 12th through 18th.

Nona Wolfram-Koivula of the National Garden Bureau, Inc., suggests contacting your local Agricultural Extension Agent for details regarding activities in your local area. According to Wolfram-Koivula, some of the major seed companies will partici-

pate by holding events at retail garden centers across the country. The National Garden Bureau plans to co-sponsor a poster contest with the National Junior Horticultural Association. The theme of the contest will be "Planting for Tomorrow." Children ages five to 10 are encouraged to submit a single, original drawing on 8½ by 11-inch poster paper, by May 15th. The winning entry will be used as promotional material for National Gardening Week in 1988. For further information about the contest in particular, or National Gardening Week in general, contact the National Garden Bureau, Inc., 628 Executive Drive, Willowbrook, IL 60521.

American Horticulturist

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