

American Horticulturist



Well-dressed high school girls tend the Children's Garden of the Brooklyn Botanic Garden in the 1920s. Today, children clad in less formal attire are still working the same urban plot. Begun in 1914, the Children's Garden at BBG is now the oldest continuous program of its kind in the world. For 70 years, more than 15,000 children between the ages of 9 and 17 have planted, watered, weeded and harvested vegetables in the Garden while



learning self-discipline, responsibility and respect for the environment. The Garden, which serves as a prototype for children's gardens throughout the world, will celebrate its 70th anniversary this year. Former participants in the program are invited to contact the Alumni Chairman (Children's Garden, Brooklyn Botanic Garden, 1000 Washington Ave., Brooklyn, NY 11225) with reminiscences to be included in a history of the Garden.

BROOKLYN BOTANIC GARDEN

Children's Garden

River Farm Notes

Have you ever gazed upon a wildflower meadow in all its majesty and felt compelled to continue that gaze, finding it impossible to turn away for even a brief moment, for fear that the magic would fade away, as would a mirage?

Have you ever felt that breath of new life enter your being and fill you to near bursting upon viewing a butterfly bush in bloom and absolutely teeming with butterflies?

Have you ever in your life felt tears welling in your eyes as you caught sight of that first winter snowdrop, that harbinger of yet another long-awaited season of bloom?

If you can answer "yes" to any of these questions, then you are one of us, and you know what it is like to have been touched to your very soul by plants.

We are a special breed, we lovers of plants, and we have special wants and desires. For us, plants are supreme. And should someone happen to ask, "What special thing can I get you for Christmas, for your birthday, for your anniversary, or just for the heck of it?" we would respond in unanimity—"plants!"

A dozen roses, a dish garden, a hanging basket or a potted mum—it makes no difference what it is; a new plant is always received as an honored and loved member of the family. But perhaps these special gifts can be even more special, more meaningful and much more caring.



That special gift could be six acres of wildflowers in magical bloom, a garden overflowing with nearly 500 rose bushes, dahlias—planted en masse and superbly striking—or any number of other plants and plantings.

I'm not suggesting the gift of actual plants or gardens, or even pictures or paintings of them. I'm suggesting the gift of the special image and warmth that the mere mention of such plants has the power to create.

Your Society has established a new program that will give you a very special way of achieving just that. This program is called Adopt-A-Plant, and it provides you with a wonderful way to say something special to someone special. It also allows you the opportunity to help AHS care for these very same, very important River Farm plants and gardens. Your tax-exempt adoption can achieve very much, indeed!

Adopt a plant, or a special garden, and present it as a gift, through adoption certificates to that special someone. Give them the opportunity to share in the glory of these plants. Each and every Adopt-A-Plant parent receives a beautiful, hand-inscribed certificate befitting the occasion. The parent, the donor and the date of the adoption all appear on the certificate and help to make the adoption just that much more special.

There is a plant for every occasion and for every person. Just think about it for a moment. . . .

You can say "I love you" with a Rose Garden, or "I miss you" with a bleeding-heart, or "I'll never forget" with a forget-me-not, or "You move too fast" with a chaste tree.

You can say "Goodbye to summer's heat" with snowdrops or a snowball viburnum, or "It's time to get away" with a Woodland Walk or a Wildflower Meadow.

For the cook supreme, there is an Herb Garden.

For the man who has everything, there is a crown-imperial.

For the friend who just took a beating on the stock market, there is a money plant.

For that special child or grandchild, there is a Children's Garden, replete with flowering vines, sugar snap peas, strawberry popcorn, zinnias, mouth-watering strawberries and giant sunflowers.

There truly is something for everyone. Use your imagination, and share in the delights that such a gift can bring. Call (703) 768-5700 or write Connie Clark, Director of Membership Services, and she will be happy to fill you in on all the details.

Plants are too neat not to be shared, too much fun not to be enjoyed, and too darn special not to be adopted!

—Steve Davis

Stamp Support Needed

A campaign is currently under way to encourage the issuance of a United States Commemorative Postage Stamp in honor of the 22nd Congress of the International Society for Horticultural Science. The meeting, cosponsored by the American Horticultural Society and the American Society for Horticultural Science, will be held August 11-20, 1986 in Davis, California.

The Commemorative Stamp Committee, headed by Dr. Ernest L. Bergman of Pennsylvania State University, notes that stamps have been issued in the past by Israel, Poland and Australia to commemorate the International Horticultural Congress being held in those countries. According to one Committee member, "A commemorative issue of this nature would do a great deal to make . . . the American public aware of the utilization and beauty of horticultural crops and their role in our daily lives."

Individuals supporting the issuance of such a stamp are encouraged to write to their senators and congressmen as well as to the Postmaster General. For more information and a sample letter, write to Ray Rogers in care of the Society.

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Mrs. Lyndon Johnson to Join AHS Annual Meeting

Mrs. Lyndon B. Johnson will join Society members at our 1984 Annual



Mrs. Lyndon B. Johnson

Meeting in San Antonio, Texas October 31-November 4. Mrs. Johnson, long active in environmental and beautification projects, created the National Wildflower Research Center in Austin, Texas in 1982.

Explore the horticultural diversity of Texas as we visit San Antonio, well known for its beautiful Riverwalk and other attractions. Meet fellow gardeners and enjoy AHS educational sessions and garden tours, which will provide members with an insider's view of gardens and gardening in and around this charming city.

Look for more detailed information on our 1984 Annual Meeting in the July *American Horticulturist* News Edition, or write or call Robin Williams at the Society, PO Box 0105, Mount Vernon, VA 22121, (703) 768-5700.

Gardening Research Aids Available

The Library of Congress has prepared a series of literature guides on a wide variety of topics, many of which will be of interest to gardeners. Several of the guides, which are called LC Science Tracer Bullets, cover garden-related subjects, including rose culture, edible wild plants, organic gardening, aquaculture, herbs and herb gardening, hydroponics, the green revolution and the history of American agriculture.

LC Science Tracer Bullets are designed to direct readers to published materials on subjects about which they have only a general knowledge. Not intended as complete bibliographies on any single subject, they are designed to introduce the reader to the materials that are available. Each Bullet includes a list of subject headings that will help the reader in his search through library card catalogues. In addition, Bullets provide lists of basic texts, bibliographies, reports and conference proceedings or government publications, as well as a list of abstracting and indexing services to assist in the search for journal articles and technical reports. Finally, each Bullet contains names and ad-

resses of organizations to contact for additional information.

LC Science Tracer Bullets are free. To obtain a list of available topics, write to the Science Reference Section, Science and Technology Division, Library of Congress, 10 First Street, S.E., Washington, DC 20540.

Most Popular British Gardens

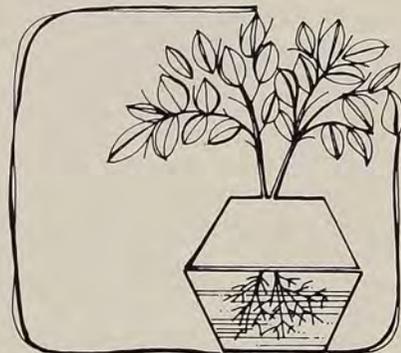
Gardeners planning trips to England this season will be interested in the latest National Trust figures on garden visitors. Last season, more visitors toured Stourhead in Wiltshire than any other National Trust garden. A total of 177,000 people visited the garden, which was also the most popular garden during the 1982 season.

Sheffield Park in East Sussex was second with 142,000 visitors, followed by Wakehurst Place in East Sussex, and Tatton Park in Cheshire.

—GC&HTJ, March 16, 1984

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Disease-Resistant Elms Listed

For those who have been reluctant to plant elm trees because of Dutch elm disease, there is good news. Over 20 resistant elms, some of which are listed below, have been identified by the elm research community and may soon be available to the public. While none of these elms is immune to DED, each is able to resist the disease once it strikes. Wilting is generally localized and soon disappears.

The first three plants on the list are probably the most commonly recognized. Only three of the plants are true American elms, *Ulmus americana*; the rest are hybrids from Europe and Asia. Because they have a different number of chromosomes, American elms will not hybridize with other species.

Ulmus carpinifolia X *U. pumila* 'Urban'. Developed at the National Shade Tree Laboratory, Delaware, Ohio.

U. glabra X *U. carpinifolia* X *U. wal-*

lichiana 'Lobel', 'Dodoens' and 'Plantyn'.

U. laevis, European white elm.

U. americana NPS 3. An unnamed cultivar developed by the National Capital Region of the National Park Service.

U. americana 'Iowa State'. Developed by Dr. Harold S. McNabb at Iowa State University.

U. americana 'Delaware II'. Developed at the National Shade Tree Laboratory, Delaware, Ohio.

U. japonica 'Jacan'. Developed at the Manitoba Agricultural Experiment Station, Morden, Manitoba.

U. japonica X *U. pumila* 'Sapporo Autumn Gold'. Developed by Dr. Eugene Smalley at the University of Wisconsin.

U. japonica X *U. pumila* '44-25'. This is a sister seedling of the cross that produced 'Sapporo Autumn Gold'.

U. hollandica 'Groeneveld 494'. A cultivar developed in the Nether-

lands. It is not hardy in the upper Midwest.

Resistant elms are still difficult to find in many garden centers and nurseries, but as demand increases, more and more nurseries will make them available. A dedicated nurseryman should be able to locate specimens.

Cancer Inhibitor Found in Seed

Agricultural Research chemists who are looking for useful compounds in plants have discovered that the seeds of a common poisonous plant contain a potent cancer inhibitor. The chemical, which resembles some antibiotics produced by soil bacteria, was isolated from *Sesbania drummondii*, a species found in seven southern and southeastern states.

The *Sesbania* species, also called *Daubentonia* or *Glottidium* and, commonly, rattlebrush, coffeebean or rattlebox, are very poisonous to livestock. *Sesbania* is a genus of perennials and shrubs or small trees that is in the Leguminosae, or pea family. *S. drummondii* grows in sandy soils of waste places, along roads, and in fence-rows along the coasts from North Carolina through Florida and Texas to Mexico.

The chemical inhibitor, called sesbanimide, was isolated from about 1,000 pounds of seed, which yielded about .0005 pounds of chemical. Sesbanimide has demonstrated antitumor activity at exceptionally low dose levels when tested on mice with leukemia. Mice that received .01 milligrams of the chemical per kilogram of body weight survived 1.71 times as long as mice that received none. In other words, each treated mouse weighed one hundred million times as much as each dose it received. Sesbanimide also demonstrated toxicity to human cancer cells growing in cell cultures.

ARS chemists at the Northern Center in Peoria, Illinois have found more than 10 pest control agents or cancer inhibitors in 1,200 to 1,300 analyses of plant seeds.

High-Quality Protein Extracted From Tobacco

Scientists at the Institute of Food and Agricultural Sciences of the University of Florida have developed a process for extracting high-quality protein from tobacco. If the process can be made economically feasible, its application could have worldwide importance as a source of human food protein.

According to Dr. Jim Rich, associate professor at the Live Oak Agricultural Research Center, protein extracted from tobacco could be used in infant formulas for children with lactose intolerance or other allergies to milk. The protein could also have medical value for people on restricted diets who are suffering from chronic kidney, heart and liver diseases.

Tobacco protein can be whipped, liquified or jelled, and it can take on the flavor and texture of a variety of foods. Since it is an odorless, tasteless white powder, it could be added to cereal grains, vegetables and soft drinks to make them highly nutritious.

Protein can be extracted from many green plants, according to Rich. However, tobacco protein is pure and can be used more effectively than traditional protein. A recent publication from the National Academy of Sciences Research Council reports that only 41.7 grams of the substance are required to fill a human adult's daily protein requirement, in comparison with 83.9 grams of soybean concentrate, 495 grams of wheat grain and 1452.2 grams of fresh milk.

The tobacco to be used for extraction is grown as a forage crop and harvested when still young. The entire plant is pulverized into a moist mass, the pulp is discarded, and the juice is heated, which causes the protein to crystallize and precipitate when the liquid is later cooled. The entire procedure, minus the cooling process, takes about four hours. Over 2,000 pounds of young tobacco (90 percent of which is water) are required to produce about 10 gallons of tobacco protein.

Tissue Culture Course

The University of Tennessee, Knoxville, will conduct a course in plant cell and tissue culture August 13-24. The two-week course, consisting of lecture-discussions and laboratory exercises, will cover establishment, growth, nutrition and handling of single cells, callus cultures, suspension cultures and organ cultures. The status, methodology and prospects of protoplasts, cryogenic storage and production of drugs and chemicals by plant cell cultures will also be covered. Three major topics will be mutant selection, cell cycle analysis and cytogenetics in cultures.

The course, which will be limited to 18 participants, is designed for individuals with a degree in science or experience in plant tissue culture who need a thorough knowledge of and training in plant cell and tissue culture. Registrants will be accepted in the order in which payment is received. The course fee is \$1,100 per person.

For more information write or call Dr. D. K. Dougall, Botany Department, The University of Tennessee, Knoxville, TN 37996, (615) 974-2256.

Tomato Plant Spacing Report

According to a recent study conducted at Pennsylvania State University, high-density planting may increase tomato production. Scientists grew tomatoes (two fresh market and two processing cultivars) at four different spacings. They found that yields of fresh market tomatoes increased 41 percent when the plant density was increased from 30- to 18-inch spacing in single row plantings. The yield in the double row plantings increased 71 percent when the spacing was reduced from 30 to 18 inches. Processing tomato yields increased 60 percent when the plant density was increased from single row, nine-inch spacing to double row, 12-inch spacing in rows 18 inches apart.

—Penn State Horticultural Reviews, January 1984



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Calling All Camellias



Japanese serow, an endangered species, is found in only two American zoos. ABOVE RIGHT: A keeper at the San Diego Wild Animal Park feeds serows a young camellia bush. BELOW RIGHT: Each of the Park's two serows usually eats one camellia plant daily.



ZOOLOGICAL SOCIETY OF SAN DIEGO

If you happen to have any extra camellia bushes, the San Diego Wild Animal Park near Escondido, California would be more than happy to accept them. The Park's two wild serows eat camellia plants as a regular gourmet supplement to their diet of enriched alfalfa pellets and fresh vegetables.

Japanese serows are rare goat-antelopes possessing traits of both animal groups. Essentially browsers, they are known to be very selective about their food; they have been observed in the wild feeding on camellias, among other exotic items.

Park Horticulturist Jim Gibbons decided to buy 500 specimens of *Camellia japonica* 'Debutante' to satisfy the finicky tastes of the Park's own serows. Apparently, the plants were a hit not only with the two serows but also with other animals in the Park, including the sika deer and the mar-khor; a watch system was instituted to ensure that the camellias are consumed only by the serows.

Unfortunately, serows seem to prefer the whole plant to cut branches (they usually devour the flowers first, then the leaves, stems and trunk), making it difficult for the Park staff to

rotate and regrow the camellia bushes fed to the animals. Thanks to the Park's Horticulture Department and to local growers, however, the serows are assured a steady supply of young plants. Donations are also welcome, of course. According to Gibbons, "We would be delighted to receive any camellia donations, but make sure that the donors are not just expecting to find a good home for their plants. Serows are a little hard on them."

—*The Camellia Journal*,
November 1983

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Garden Construction Garden Planning Greenhouses, Cloches & Frames

Peter McKoy

Well-known gardening consultant and horticultural writer has prepared this lavishly illustrated 3-volume home reference set to answer any question on planning a fully integrated garden setting. *Garden Planning* offers sound, easy-to-follow advice on ways to lay out a garden explaining how to alter existing designs. Covers water and rock gardens, herb and vegetable gardens, roof gar-

dens and much more. *Garden Construction* explains how to erect a fence, hang a gate, build a wall, install a sprinkler, clear the land plus select dependable plants. *Greenhouses, Cloches & Frames* describes growing flowers and vegetables under glass offering advice on shapes, styles, sizes, equipment, ventilation, potting and more. Each volume: 128 pages, 64 full-color photos, index. Paper \$6.95 each retail, \$5.55 each to AHS members.



Garden Conifers In Color

Brian & Valerie Proudley

Countless landscaping ideas plus factual information for identification and more in this pocket sized mini-encyclopedia lavishly illustrated with 118 color photos of conifers. Over 500 conifers described. 216 pages. Hardcover \$9.95 retail, \$7.95 to AHS members.



Orchids In Color

Brian & Wilma Rittershausen

Here is a book that orchid hobbyists will find irresistible. Lavishly illustrated with over 100 full-color orchid portraits, this book would normally be considered a coffee table art book but for its paperback format and handy size. Opposite each photo is a discussion of the genus and pedigree of each plant, plus graphic description on plant structure including bulb formation, pattern of foliage, structure of flower spikes and new growth. Add a 30+ page introduction to raising orchids and you have the most complete book ever published on the subject. 192 pages, Paper \$6.95 retail, \$5.55 to AHS members.



Bridges & Cupolas

Janet & Richard Strombeck

30 old fashioned bridges scaled down for landscaping plus 36 designs adapting Victorian cupolas to attach to your home. 96 pages. 75 illus. Paper \$7.95 retail, \$6.35 to AHS members.



Heathers In Color

Brian & Valerie Proudley



Use this lavishly illustrated pocket guide (140 full-color photos) to create wondrous country atmosphere for garden or grounds. Covers shrub selection, soil conditions, planting care and more plus description on 350 varieties. 192 pages. Hardcover \$9.95 retail, \$7.95 to AHS members.



Privy: The Classic Outhouse Book

Janet & Richard Strombeck

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Prepaid orders to the attention of the American Horticultural Society, Box 0105, Mount Vernon, VA 22121. Virginia residents add 4% sales tax. Postage and handling is an additional \$1.25 per book; 3 or more books shipped postage free. Make checks payable to the American Horticultural Society.

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Gardener's Dateline

MARCH 25-MAY 30

**Rhododendron Species Foundation
Garden Blooming Season Walks**

Federal Way, Washington. Wednesdays and Sundays only. Hours: Wednesdays 10 a.m. to 3 p.m.; Sundays 1 to 5 p.m. Admission: Regular \$2.00; RSF members free. Information: Rhododendron Species Foundation, PO Box 3798, Federal Way, WA 98003, (206) 927-6960, 838-4646.

MAY 2-OCTOBER 14

**International Garden Festival:
Liverpool '84**

Liverpool, England. Information: International Garden Festival, Merseyside Development Corporation, Royal Liver Building, 4th Floor, Liverpool L3 1JH, England, Tel. 051-236-6090.

MAY 3

**Herb Society of America Spring Sale
of Herb Plants**

U.S. National Arboretum, Bladensburg Rd. and New York Ave., N.E., Washington, D.C. Hours: 10 a.m. to 3 p.m. Information: Education Office, (202) 475-4857.

MAY 5

**Brandywine Conservancy Annual
Wildflower Plant and Seed Sale**

Brandywine Conservancy, Chadds Ford, Pennsylvania. Hours: 9:30 a.m. to 2 p.m. Information: Suzanne Goehringer, Chairman, Wildflower Plant & Seed Sale, Brandywine Conservancy, PO Box 141, Chadds Ford, PA 19317, (215) 388-7601, 459-1900.

MAY 5

May Day Festival

Middleton Place, Charleston, South Carolina. Information: Middleton Place, Route 4, Charleston, SC 29407, (803) 556-6020.

MAY 11-12

**Dumbarton Oaks Symposium: "Villa
Gardens of the Roman Empire"**

Dumbarton Oaks, Washington, D.C. Admission: General \$20; Students \$15. Information: Villa Gardens of the Roman Empire, Studies in the History of Landscape Architecture, Dumbarton Oaks, 1703 32nd St., N.W., Washington, D.C. 20007.

MAY 11-13

**Azalea Society of America Sixth
National Meeting**

Fredericksburg, Virginia. Information: Mrs. Dorothy Robinson, ASA/MAC Meeting, 4424 Shoremeade Rd., Richmond, VA 23234, (804) 271-1013.



**Spectacular Alpine scenery awaits
participants in the AHS Switzerland
Tour, June 5-18.**

MAY 12

**Azalea Society of America/American
Rhododendron Society Mid-Atlantic
Chapter Joint Flower Show**

The Sheraton/Fredericksburg, Fredericksburg, Virginia. Hours: 1 to 6 p.m. Admission: Free. Information: Dorothy W. Robinson, (804) 271-1013.

MAY 13-16

**National Council of State Garden
Clubs Annual Meeting**

Albuquerque, New Mexico. Information: National Council of State Garden Clubs, Inc., 4401 Magnolia Ave., St. Louis, MO 63110, (314) 776-7574.

MAY 17-19

**1984 American Hemerocallis Society
Convention**

Holiday Inn, International Drive, Orlando, Florida. Information: American Hemerocallis Society, c/o Joan D. Senior, Route 2, Box 360, DeQueen, AR 71832.

MAY 18-20

**Oregon Cactus and Succulent Society
Spring Show and Sale**

Jantzen Beach Center, Portland, Oregon. Hours: Friday 10 a.m. to 9 p.m.; Saturday 10 a.m. to 6 p.m.; Sunday noon to 5 p.m. Information: Lisa Crombie, (503) 244-1442.

MAY 20

Lilac Sunday

Arnold Arboretum of Harvard University, The Arborway, Jamaica Plain, Massachu-

setts. Information: Arnold Arboretum, The Arborway, Jamaica Plain, MA 02130, (617) 524-1718.

MAY 23-25

**Royal Horticultural Society Chelsea
Flower Show**

Chelsea, London, England. Information: The Royal Horticultural Society, Vincent Square, London, England, SWIP 2PE, Tel. 01-834-4333.

MAY 24

Roses and May Flowers Day

Wm. Paca House and Garden, 186 Prince George St., Annapolis, Maryland. Hours: 10 a.m. to 5 p.m. Information: Historic Annapolis, Inc., Old Treasury, State Circle, Annapolis, MD 21401, (301) 267-8149 (Baltimore: 269-1910).

MAY 27-31

**American Iris Society Annual
Meeting**

Seattle, Washington. Information: American Iris Society, 6518 Beachy Ave., Wichita, KS 67206, (316) 686-8734.

MAY 31-JUNE 2

**African Violet Society of Canada
National Convention**

Queen Elizabeth Hotel, Montreal, Quebec, Canada. Information: Dick Harriman, Convention Chairman, 3475 Trenholme Ave., Montreal, Quebec H4B 1X8, Canada.

JUNE 5-18

AHS Tour of Switzerland

Information: Write or call the Society's Education Department, PO Box 0105, Mt. Vernon, VA 22121, (703) 768-5700.

JUNE 7-10

**American Hosta Society National
Convention**

Sheraton Mountain Brook Inn, Birmingham, Alabama. Information: American Hosta Society, Mrs. Joe Langdon, 5605 11th Ave., South, Birmingham, AL 35222.

JUNE 9

**New England Wild Flower Society
Annual Plant and Book Sale**

Garden in the Woods, Framingham, Massachusetts. Hours: 10 a.m. to 3 p.m. Information: (617) 877-6574.

JUNE 11-13

**Society for Economic Botany 25th
Annual Meeting**

Texas A&M University, College Station, Texas. Information: Dr. Hugh D. Wilson, Biology, Texas A&M University, College Station, TX 77843.

JUNE 15-17

American Peony Society 81st Annual Meeting and 79th Annual Exhibition

Kingwood Center, Mansfield, Ohio. Information: American Peony Society, 250 Interlachen Rd., Hopkins, MN 55343.

JUNE 16

American Rose Society Spring Meeting

San Diego, California. Information: American Rose Society, Box 30,000, Shreveport, LA 71130, (318) 938-5402.

JUNE 18-23

Longwood Gardens Week-Long Course: "Perennial Flowers"

Longwood Gardens, Kennett Square, Pennsylvania. Admission: \$100.00 (pre-registration only). Information: Continuing Education, Longwood Gardens, Kennett Square, PA 19348, (215) 388-6741, ext. 516.

JUNE 22-24

American Ivy Society Eleventh Annual Convention

University of Delaware, Newark, Delaware. Information: American Ivy Society, PO Box 520, West Carrollton, OH 45449.

JUNE 24-27

American Association of Botanical Gardens and Arboreta Annual Meeting

University of Alberta, Edmonton, Alberta, Canada. Information: AABGA, PO Box 206, Swarthmore, PA 19081, (215) 328-9145.

JULY 4-7

American Gloxinia and Gesneriad Society Annual Convention

San Mateo, California. Information: Floy Lane, 595 Mountain View Ave., Mountain View, CA 94041.

JULY 6-8

Hardy Plant Society Study Weekend

Portland, Oregon. Information: Barbara Ashmun, 3314 NE 26th Ave., Portland, OR 97212, (503) 284-4897.

JULY 10-14

UK/USA Congress on Green Towns and Cities

Liverpool, England. Information: Sandra Higgins, Project Director, 10 Newton Grove, Bedford Park, London W4, England, Tel. 01-994-6174.

JULY 21-AUGUST 11

Summer School in Canterbury, England: "An English Heritage: Buildings and Gardens in Southeast England"

Information: The Summer School Office, School of Continuing Education, University of Kent at Canterbury, Rutherford College, Canterbury, Kent CT2 7NX, England.

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Horticultural Explorations

Fall England (Sept. 5-20) Visit 12 private gardens in England, one of the most avid gardening countries in the world. Tour British public gardens, including Wisley, Hidcote, Chester Zoo Garden, Ness, Cambridge and Arley Hall. Enjoy the cultural and historical sights of London. Highlights of the tour will be the Royal Horticultural Society's Great Autumn Show and the International Garden Festival.

New Zealand (Oct. 15-Nov. 1) Enjoy the horticultural wonders of New Zealand at the peak of springtime. Visit lush public and private gardens, a rhododendron preserve and the Otari Plant Museum. Explore the Alpine peaks and fjords of Milford Sound and the thermal region of Rotorua. Trips to the famous cities of Auckland, Wellington and Christchurch are also planned.

Fall Orient (Nov. 1-25) Visit private gardens in Japan that are rarely open to tourists. Also tour selected nurseries and public botanical and temple gardens, as well as a bonsai village. See Mount Fuji, Nikko National Park and the bustling city of Tokyo. We will also travel to Hong Kong, Singapore and the Indonesian island of Bali.

Other horticultural explorations, available in 1985, are VIRGIN ISLANDS CRUISE aboard the *Nantucket Clipper* (Jan. 6-13); FLORIDA WATERWAYS/COLONIAL SOUTH CRUISE aboard the *Nantucket Clipper* (April 3-13); and EUROPE AND NORTH AFRICA SPRING CRUISE aboard the yacht *Argonaut* (May 11-24).

For any of these programs, please write for your free brochure to the Education Department, American Horticultural Society, P.O. Box 0105, Mount Vernon, VA 22121. Or telephone (703) 768-5700.

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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 addresses 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.

- ***Solanum rantonnetii***, blue potato bush or vine, a six-foot shrub with small, dark blue or violet flowers and drooping, heart-shaped fruit. Mrs. G. Cyngot, #14-2349 Highway 97 N, Kelowna, BC, V1X 4H9 Canada.
- ***Acer manshuricum***, Manchurian maple, a small, upright spreading tree or large shrub (to 30 feet) with very early, red fall color and trifoliate leaves. ***Tilia petiolaris***, pendent silver linden, an attractive tree found in European gardens with pendulous branches and foliage with silvery white undersides. Christopher Miracle, 3816 Thoma Park Drive, West Bend, WI 53095.
- ***Dizygotheca veitchii***, finger aralia, an attractive foliage plant with compound leaves. Leaflets are five inches long and one-quarter inch wide, have wavy or toothed margins, and are green above, coppery red beneath. David Kirk, 4303 Fenwick Avenue, Cleveland, OH 44113.
- ***Penstemon dissectus***, fern-leaved penstemon, a wildflower native to Georgia whose tubular flowers are purple with a yellow beard. Amel Priest, Route 1, Peru, IA 50222.
- ***Phlox 'Mia Ruys'***, a dwarf, 15-inch garden phlox with white flowers. Virginia E. Weikal, 15103 East 41st Street, Independence, MO 64055.
- ***Actinidia polygama***, silver vine, an attractive vine climbing to 15 feet. Six-inch, oval-oblong leaves often splashed with silvery white or yellowish blotches. Bears white, fragrant, 3/4-inch flowers. Irene Womer, 6310 Somerset Road, Riverdale, MD 20737.

- ***Celtis laevigata***, sugarberry or Mississippi hackberry, a 100-foot tree with orange-red fruit, turning to purple, that is native to the southern portions of the United States. Thomas L. Smith, Spring Grove, 4521 Spring Grove Avenue, Cincinnati, OH 45232.
- ***Rubus idaeus 'Cuthbert'***, a hardy cultivar of red raspberry that originated as a chance seedling in 1865. Pat Holloway, SR-40585-B, Gilmore Trail, Fairbanks, AK 99701.
- ***Cecropia sp.***, commonly called snakewood tree or trumpet tree, a handsome tropical tree with hollow stems and palmately lobed leaves. A West Indian member of the mulberry family, it is found only in Zone 10. Dan W. Taylor, 5250 Sunset Court, Cape Coral, FL 33904.
- ***Lupinus polyphyllus 'Regal Lupins'***, a lupin cultivar listed in a 1926 catalogue from Horsford Nursery in Charlotte, Vermont. Flowers range from creamy to amber, coppery orange, yellow, rose, slate and lavender-blue. Some flowers are bicolor. Ellen McClelland-Lesser, Box 569, Rhinebeck, NY 12572.
- ***Sorbus aria***, white beam or chess apple, a medium-sized mountain ash with small white flowers in spring and red berries in fall. Its leaves are simple and bright green above, white tomentose beneath. Common in England. Mrs. John Woodward, 65 Barrington Street, Rochester, NY 14607.
- ***Echium pininana***, tower-of-jewels or pride-of-Tenerife, a six- to 15-foot tender biennial. Eric Grissell, Piping Cottage, 210 Piping Rock Drive, Silver Spring, MD 20904.
- ***Dahlia 'Pink Bouquet'***, a dwarf, 15- to 18-inch cultivar with pink, cactus-type flowers. Louise Petosa, 90 Nevada Avenue, Staten Island, NY 10306.
- ***Narcissus 'Chinese White' and 'Vanilla'***, two white-flowered cultivars of daffodil. Mary S. Green, Box 176, Glenmoore, PA 19343.
- ***Impatiens balsamina* or *I. pallida***, garden balsam and jewelweed, respectively. Would like any yellow-flowered forms. Would also be interested in any yellow-flowered *Impatiens* or any yellow-flowered

members of the balsam family, Balsaminaceae. ***Lobelia laxiflora***, a three-foot shrubby or herbaceous lobelia found in Arizona south to Mexico. Interested in red-flowered forms. Randy Marek, 561 Thrall Avenue, Suffield, CT 06078.

- ***Passiflora kermesina*** (sometimes listed as *P. raddiana*), a crimson-flowered passionflower with white filaments. Leaves are three-lobed and slightly toothed, purplish beneath. Native to Brazil. ***Passiflora banksii***, a native Australian passionflower with orange- to brick-red petals and pale pink sepals. ***Passiflora violacea***, passionflower native to Brazil, Paraguay and Bolivia. Four-inch flowers have purple sepals, purplish blue petals. Richard Bayley, 408 Hillcrest, Berrien Springs, MI 49103.
- ***Verbena 'Mayflower'***, an annual verbena with bright pink flowers. Height 12 to 15 inches; stems sprawl as they lengthen. Mrs. Robert W. Stoddard, 19 Monmouth Road, Worcester, MA 01609.
- ***Aristolochia brasiliensis*, *A. leuconeura* and *A. tricaudata***, three tropical species of Dutchman's pipe. Paul E. Parker, 1709 North 6th Street, McAllen, TX 78501.

Ivy Brochures Available

Ivy enthusiasts may want to write for the newest publication of the American Ivy Society. "The American Ivy Society Wants To Help You Plant Your New Ivy" is a concise leaflet providing tips on transplanting ivy. It is available free of charge.

Also available is "The Care of Ivies and the American Ivy Society Collection." This publication provides information on pests and ivy identification, and includes a list of cultivars. It also describes services of the Ivy Research Center, cultivar registration procedures and hardiness testing. It is available for \$2.00.

For more information, write to the American Ivy Society, P.O. Box 520, West Carrollton, OH 45449.

Gardening Books to Order

● TRANSVAAL WILD FLOWERS.

Anita Fabian (paintings) and Gerrit Germishuizen (text). MacMillan South Africa. Johannesburg, South Africa. 1982. 292 pages; hardcover, \$37.50. AHS discount price, \$35.25 including postage and handling. Beautiful watercolors of the many South African plants that are of horticultural value. A good source of new introductions for the warmer parts of the United States.

● KEW: GARDENS FOR SCIENCE & PLEASURE.

F. Nigel Hepper (editor). Stemmer House Publishers. Owings Mills, Maryland. 1982. 195 pages; hardcover, \$24.95. AHS discount price, \$20.75 including postage and handling.

A guide to one of the world's most outstanding botanic gardens—its history, living collections and current research. Beautifully illustrated and well written.

● PLANTS FOR GROUND-COVER.

Graham Stuart Thomas. J. M. Dent & Sons Ltd. London, England. 1977. 282 pages; hardcover, \$22.50. AHS discount price, \$19.50 including postage and handling.

Hundreds of plants that provide cover under all sorts of conditions. Practical suggestions by one of England's leading garden writers.

● PERENNIAL GARDEN PLANTS.

Graham Stuart Thomas. J. M. Dent & Sons Ltd. London, England, 1982. 388 pages; hardcover, \$29.95. AHS discount price, \$25.50 including postage and handling.

An encyclopedia giving the history, description and cultural needs of a vast number of perennial species, most of which are hardy in any part of the United States.

● THE AMATEUR NATURALIST.

Gerald Durrell. Alfred A. Knopf. New York, New York. 1983. 320 pages; hardcover, \$22.50. AHS discount price, \$21.00 including postage and handling.

A clear approach to the many natural habitats of the world. This presentation of ecology will make you want to look more closely at the world around you.

● THE SANSEVIERIA BOOK.

Hermine Stover. Endangered Species Press. Tustin, California. 1983. 72



pages; softcover, \$16.00. AHS discount price, \$16.00 including postage and handling.

An illustrated guide to the many species and cultivars of these popular plants. A much needed work for a genus generally ignored in the literature.

● GROW IT, COOK IT.

Jacqueline Heriteau. Perigee Books. New York, New York. 1983. 320 pages; softcover, \$8.95. AHS discount price, \$8.50 including postage and handling.

How to grow, harvest, store and cook over 100 fruits, vegetables and herbs. Cultural instructions are practical and the recipes mouth-watering.

● SISSINGHURST: THE MAKING OF A GARDEN.

Anne Scott-James. Michael Joseph. London, England. 1983 (7th printing). 160 pages; hardcover, \$15.95. AHS discount price, \$14.25 including postage and handling.

The history and sights of one of the world's most famous gardens. The development of the garden since 1930 is followed in detail, and today's visitor is guided through the garden in spring, summer and autumn.

● GROWING PLANTS WITHOUT SOIL.

Hans-August Rotter. Sterling Publishing Co. New York, New York. 1982. 120 pages; hardcover, \$15.95. AHS discount price, \$12.95 including postage and handling.

Hydroponics for house plants. A practical guide to a system that is popular in Europe but hardly known in this country.

● MEDICINAL PLANTS OF THE BIBLE.

James A. Duke. Trado-Medic Books. New York, New York. 1983. 233 pages; hardcover, \$49.95. AHS discount price, \$43.75 including postage and handling.

A different and practical approach to the plants of the Bible. This is a scientist's review of the actual uses, past and present, of Biblical plants whose medical applications are often overlooked.

● APPLES: A GUIDE TO THE IDENTIFICATION OF INTERNATIONAL VARIETIES.

John Bultitude. University of Washington Press. Seattle, Washington. 1983. 332 pages; hardcover, \$50.00. AHS discount price, \$46.50 including postage and handling.

Extensive descriptions and histories of apple cultivars. Intended to help in the identification of currently grown varieties but also useful for deciding what to grow.

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Container Inserts Reduce Root Spiraling

Researchers at Kansas State University have discovered a simple, inexpensive way to prevent root spiraling in container-grown trees. Root spiraling is a problem, since trees are generally grown in the same pot for several years before being transplanted to the garden.

The researchers planted year-old silver maple and oleaster seedlings in two-gallon, semi-rigid plastic containers that had been fitted with a number of inserts to prevent spiraling. Each insert was made from two Plexiglas sheets, each approximately one to four inches wide and seven inches long (the depth of the con-

tainer). The strips were glued together to form a "T." The inserts were fitted around the inside of each container at intervals of from three to four inches, with the crossbar of the "T" against the container wall.

A two-gallon container fitted with eight inserts placed three inches apart proved most effective in reducing root spiraling. Light root pruning and branching occurred when the roots intercepted the inserts.

The researchers suggest that inserts could be made from any substance like Plexiglas, that is, anything that is non-toxic, non-corrosive and strong enough to withstand

growing roots. Since spiraling roots occur most frequently near the bottom of the pots, the inserts need to be fitted all the way down against the bottom of the container to be effective. —*American Nurseryman*,

February 15, 1984

Memorabilia Sought

Live Oak Gardens Foundation, Inc. is looking for memorabilia of Joseph Jefferson, an American actor, painter and author of the 19th century. The Foundation operates the Botanic Gardens surrounding the late actor's home (built in 1870) on Jefferson Island, Louisiana.

Live Oak Gardens Foundation is in the process of reopening the gardens and restoring the house, and would like to obtain memorabilia for use in the restoration. The Foundation is particularly interested in obtaining any of Jefferson's works or any furniture that may have been in one of his three homes—on Jefferson Island, at Buzzards Bay in Massachusetts, and at Palm Beach, Florida.

Donations to the Foundation are tax deductible. The Foundation also has some funds available for purchasing memorabilia. For more information, write Live Oak Gardens Foundation, Inc., P.O. Box 284, New Iberia, LA 70561.

Endangered Species List Published

The U.S. Fish and Wildlife Service Office of Endangered Species has published a 1983 supplementary notice listing species of endangered wildlife and plants. Information on approximately half of the taxa listed in the 1980 notice of review has been revised.

The supplement incorporates changes in the assessment of native ferns, conifers and flowering plants that are, or may be, vulnerable to extinction, or that are believed to be extinct. It also introduces a new system for categorizing plant taxa to aid in the evaluation and documentation of their conservation status.

While the 1980 plant notice remains current, the 1983 supplement should be consulted for updated entries. Copies of the 1980 notice and the 1983 supplement are available upon request from regional or field offices of the Service, or from the Washington Office of Endangered Species, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

The Service hopes that the 1983 notice will encourage research on the taxa listed. Information on threats to any of the taxa is welcome, and horticulturists with a knowledge of any of the taxa in cultivation are encouraged to contact the Office.

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