

# American Horticulturist



Join American Horticultural Society members in Miami for our Spring Symposium, March 14-17. We will have a chance to stroll through the world-famous palm collection at Fairchild Tropical Garden (above) and visit many other fascinating gardens in the area. For more information turn to page 14 of this newsletter.



# River Farm Notes

Any staff member of the American Horticultural Society who writes as part of his or her duties experiences the frequent temptation to start a letter, article or report with this phrase: "As I look out my window toward the Potomac River..." I have certainly fallen prey to this temptation, and it becomes more enticing when the trees are bare and snow is on the ground. In winter, the world outside my window lacks color. Often even the river seems to have gone to a predictable, flat grey. But the pattern of the bare branches of black walnut, maple, ginkgo and oak trees compensates for the dullness of this monochromatic scheme.

Winter brings us some surprises, too. Flocks of Canada Geese have frequented our snow-covered lawn, decorating what, in warmer seasons, is our vibrant meadow. One year in late winter 42 Whistling Swans made for the shoreline at River Farm, bringing our Publications Director, Barbara Ellis, tearing across the barren field with her binoculars. (The rest of us, not so hardy, awaited her report indoors.) In autumn and winter, I occasionally glance out the window to see a fox trotting along the top of the brick ha-ha wall at the top of the meadow.

Certainly the most surprising winter visitor came in the form of a man-made moving object. On a busy February morning, my co-worker and



Winter at River Farm—view toward the Potomac.

I glanced up from stacks of mail to see the conning tower of a submarine moving northward in the water. Other staff members took this vision as further evidence of our being overworked. Later we learned the submarine was visiting Washington from the Netherlands in celebration of 200 years of friendship between our countries. I'm grateful there was a source of independent corroboration on that one.

It's easy to write nostalgically of past winters from January's viewpoint, but in another month I will join all gardeners in the itch for spring. A recent trip to the Society's seed room helped get that itch going even earlier this year. The seed room, a tiny space carved out of the first floor of our old carriage house, overflows with bins, boxes and bags of seed awaiting distribution to our members through the annual Seed Program. Members from across the country have generously sent in specimens of all kinds. In color alone, the seeds have the power to fascinate.

This year we have seed from Texas mountain laurel (*Sophora secundiflora*). These flame-colored beads, about 1/4 inch in diameter, are smooth and glossy enough to remind me of penny candy. Another candy look-alike, the seed of castor bean plant (*Ricinus communis*), reminded this sweet-tooth owner of a peanut M&M in size and shape, but its mottled bronze-red color should warn the hasty that this seed is definitely poisonous.

Almost identical in size and shape, the seeds of red cedar (*Juniperus virginiana*) and cherry laurel (*Prunus laurocerasus*) contrast beautifully in color. The cedar seeds are a chalky

blue, almost the color of lapis lazuli, while the laurel seeds are garnet red.

One of our very special offerings this year, a nearly extinct hybrid of Indian corn (*Zea mays*), wins the color competition hands down. On a single ear, it presents every conceivable intensity of indigo, from near black to the palest slate blue, with a creamy white providing occasional relief. Steve Davis, who coordinates the Seed Program, ran through the office displaying this wonder the day he received it. He is particularly excited about this contribution because it gives the Society a chance to help preserve this corn, which was a food crop for Southwestern Indians for thousands of years.

Steve's enthusiasm for the Seed Program matches his daily eagerness for all the Society's projects. In the middle of winter, he finds plenty of outlets for his gardener's soul as he oversees the distribution of seed from our tiny storehouse. Jane and Aubrey Glass, River Farm's caretakers, have kept Steve sane through the years by spending hours packaging seed and filling orders. Because of the efforts of Steve, Jane and Aubrey, and because of the help of many local volunteers, this year's Seed Program promises to help you knock the winter dust off your garden plans and dreams. (Please try to send your seed order in early, so we'll have the best chance of giving you all your first choices.)

I would never want to underestimate the beauties of winter, but I know you'll join me in happy anticipation of the results these seeds will bring. After all, who could honestly prefer a clear view of an icy river to the softly waving leaves of tulip, gum and sycamore? —Connie Clark

## American Horticulturist

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# National Gardening Survey Results

According to the 1983-1984 Gardens for All/Gallup Organization National Gardening Survey, approximately 35 million American households (42 percent) planted food gardens in 1983. The survey indicates that gardening maintained its place as the number one outdoor leisure activity of Americans. This year's figures represent a drop of four percentage points from last year's record high of 38 million households (46 percent).

According to Jack Robinson, president of Gardens for All, the survey results show that "35 million households are gardening principally to save money, to get fresh vegetables, and for enjoyment. This year we saw a slight decline in several kinds of gardening, from flower and food growing to landscaping and shrub care. The main reasons households gave for not gardening were lack of suitable space (35 percent), lack of time (28 percent) and too much work (13 percent)."

Gardens for All has conducted a National Gardening Survey for 12 years, and their results indicate a re-

lationship between gardening and the nation's economy. According to Robinson, "While there is a core group of dedicated gardeners who raise food every year, there is also a small segment of the gardening population that will garden one year and not the next depending on economic conditions. . . . When the economy shows even a slight gain, the popularity of gardening decreases for this marginal group."



The inclement weather this past spring and summer, which caused a serious loss of the nation's corn crop, also probably discouraged home gardeners.

Other results from the 1983-1984 survey are as follows:

- Vegetable and flower gardening maintained its rank as the number one *outdoor* leisure activity in America. It ranked sixth overall, behind watching TV (81 percent), listening to music (64 percent), reading (54 percent), traveling in the car (44 percent) and going to the movies (43 percent).
- The Midwest ranks as the region with the highest percentage of the nation's gardeners (35 percent). The East and the South each have 24 percent of the 35 million households, and the West has 17 percent.
- Suburbs and small towns saw the biggest decline in gardening in 1983, unlike the past two years when gardening was on the increase in those areas.
- Eighty-two percent of American households were involved in at least one form of gardening activity, from flower gardening to lawn care, in 1983.

A fact sheet on the National Gardening Survey is available from Gardens for All, Department T11, 180 Flynn Avenue, Burlington, VT 05401. Send \$1.00 to cover postage and handling.

## Upcoming AHS Events

The following Society-sponsored tours and other events have been scheduled for this fall. For more information about any of these events, write or call the Society's Education Department, PO Box 0105, Mt. Vernon, VA 22121, (703) 768-5700.

### March 14-17

AHS Spring Symposium in Miami, Florida. See page 14 of this newsletter for details on the program.

### March 18-26

AHS Post-Symposium Tour of Florida's west coast, the Everglades and EPCOT. Visits to Selby Botanic Garden, Edison Gardens, the Ringling Mansion and Cypress Gardens are also scheduled.

### March 23-April 5

AHS Spring Tour of Israel. Tour the historic and horticultural sights of Jerusalem and the Dead Sea, Nazareth, Dome of the Rock and the Wailing Wall.

### March 23-30

AHS Spring in the South Tour. Visit private homes in New Orleans during peak azalea season in the South, ride up the Mississippi on the Delta Queen and tour private homes in Natchez, Mississippi that are only open once a year.

### April 26-May 16

AHS Tour of Japan in the Spring. Visit the subtropical island of Kyushu with its active volcanoes, famous parks and magnificent landscape gardens. Also, tour the temple gardens of Kyoto, beautiful Nikko, nurseries in Angyo, the bonsai village of Omiya and the city of Tokyo.

### May 21-June 4

AHS Cruise to Morocco and the Canary and Madeira Islands. Board the yacht *Argonaut* for a spring garden cruise. There will be a stop in London for opening day of the Chelsea Flower Show.

## Free Jiffy-7 Samples Offered

Gardeners are invited to send for a free sample of the new Jiffy-7 Plant Starter Pellet and a Growing Guide brochure explaining how to use it to start seeds and root cuttings. The brochure, which opens into a poster, provides step-by-step instructions on starting flowers and vegetables from seed, rooting cuttings and growing transplants.

To order a sample and a brochure, send a self-addressed, business-size envelope with 40¢ postage to Care-free Garden Products, Department 10, PO Box 338, West Chicago, IL 60185.



# Coal Pollutants: New Fertilizer?

An emerging technology that strips burning coal of pollutants may soon provide gardeners with an important new source of fertilizer.

In this new process, called fluidized bed combustion (FBC), coal is burned in a slurry of limestone or dolomite (a calcium-rich mineral). Although the process produces tons of granular waste, it reduces sulfur and nitrogen emissions by more than 90 percent. The pollutants, which become a major source of acid rain if released into the atmosphere, are trapped as a granular residue that is surprisingly rich in plant nutrients, including calcium, magnesium and sulfur.

However, the mere presence of nutrients in the soil does not guarantee their absorption by plants; certain chemical forms or extraneous compounds can render some of the nu-

trients unavailable to crops. Furthermore, FBC residue often contains heavy metals that can be toxic to plants, animals and humans. Scientists are studying the absorption process in an attempt to deal with these problems.

Overall, plant growth studies have been encouraging. Tomatoes, lettuce, radishes and other vegetables that tend to accumulate heavy metals were fertilized with FBC residue. After harvesting the crops, ARS researchers could find no significant increases in heavy metals. Instead,

test plants responded favorably to the treatment. In some cases their content of calcium and sulfur, two plant nutrients also important to humans, actually increased significantly.

According to Orus L. Bennett, Director of the Appalachian Soil and Water Conservation Research Laboratory in Beckley, West Virginia, "FBC residue will be a major source of liming material if fluidized bed combustion is widely accepted by the power industry, as is expected."

—*Agricultural Research*, July/August 1983

## Egg-Laying Stimulant Developed for Beneficial Wasp



## New Leafminer Control Method

Commercial florists have discovered a key to controlling leafminers in greenhouse-grown chrysanthemums. Apparently adult leafminers need a source of nectar for maximum egg laying. Since they can't obtain enough nectar from chrysanthemums, they fly to alternate hosts such as *Gerbera*, *Gypsophila*, marigolds, zinnias, asters, tomatoes, onions, squash, broccoli and cucumbers. One grower had difficulty controlling leafminers in chrysanthemums when he grew them next to snapdragons. For effective control, the alternate hosts and adjacent plants must be treated.

Since leafminers are not strong fliers, physically separating those plants being propagated from those in the finishing stages can help prevent the insects from reinfesting later crops. A light bulb mounted in a yellow cylinder covered with light machine oil is effective in trapping adults. Adult pupae, which drop to the ground under greenhouse benches, can be controlled by sprinkling hydrated lime.

—*Florascope* August 1983

Scientists have developed a chemical mixture that stimulates *Trichogramma*, a beneficial parasitic wasp species, to lay eggs by the thousands—enough for biologically controlling many insect pests. *Trichogramma* is a genus of miniscule wasps (45 adults can be lined up head to tail in one inch) that have excellent potential as biological control agents because they parasitize eggs, thus preventing insect pests from hatching and damaging plants.

U.S.D.A. Agricultural Research Service entomologist William C. Nettles formulated the new egg-laying stimulant, which is a simple salt solution of potassium chloride and magnesium sulfate. Both of these salts are present in relatively large amounts in insect blood.

*Trichogramma* is present in nature

but doesn't reproduce well enough to be effective for biological control, according to Nettles. His new chemical stimulant will serve as the basis for an inexpensive way to produce thousands of *Trichogramma* eggs and will allow scientists to mass rear the wasp for release. *Trichogramma* parasitizes at least 75 families of insects, including beetles, flies and moths, and will help protect vegetables, fruits, forest trees and such crops as cotton, corn and soybeans.

An artificial diet for the wasps still needs to be developed if they are to be produced successfully in large quantities. The Chinese use a natural diet composed of insect blood, egg yolks, milk and salts; however, the use of insect blood is expensive, so scientists are still looking for an inexpensive artificial alternative.



# Four New Plants Proposed for Listing as Endangered

The U.S. Fish and Wildlife Service has proposed that four new plants be added to the list of Endangered and Threatened Species. Two of the species are native to the Hawaiian Islands, one is native to south Texas and another is native to a small area in southwestern Oklahoma.

*Gouania hillebrandii*, a shrub bearing 1- to 2½-inch, oval leaves and small white flowers on branching stalks, is known from only two small sites on the island of Maui, in the district of Lahaina. It was proposed for listing as Endangered with Critical Habitat because introduced livestock and insects have caused a serious population decline. The few remaining plants range in size from a few inches to six feet in height.

Livestock grazing and trampling present a threat to the species, since they destroy native plants and promote erosion, thus creating conditions that favor the survival of exotic plants. In addition, *Gouania hillebrandii* is seriously threatened by an introduced insect pest, the hibiscus snow scale. The remaining plants have also been damaged by an unknown leaf-chewing insect.

According to the *Endangered Species Technical Bulletin*, all of the species of *Gouania* native to Hawaii seem to be unusually susceptible to "environmental alterations brought by human settlement of the islands . . . Of 15 described species of *Gouania* in Hawaii, 10 are almost certainly extinct and 2 more may be extinct. The remaining 2 species (*Gouania gagnei* and *Gouania fauriei*), besides the one just proposed, are candidates for listing."

*Kokia drynarioides*, commonly called Hawaii tree cotton or, in Hawaiian, *bau-bele'ula*, is an attractive, small tree bearing palmately lobed leaves and large, red flowers subtended by three large bracts. The plant, which was first collected during Captain James Cook's 1779 voyage to the Pacific, has been proposed for listing as Endangered with Critical Habitat. Livestock grazing, habitat damage and competition from introduced plants have all contributed to



*Phlox pilosa* var. *longipilosa*, commonly called long-haired phlox.

Courtesy of *Endangered Species Bulletin*

the population decline of this species. In 1929 there were approximately 200 individual trees, and now there are only 15 known in the wild.

*K. drynarioides* is very attractive to cattle and feral herbivores such as goats, which browse on the mature trees and eat any seedlings that may appear. Rodents, especially the introduced roof rat, eat many of the seeds. The recent invasion of *Pennisetum setaceum*, an exotic fountain grass, further inhibits germination and increases the danger of wildfires.

According to the *Endangered Species Technical Bulletin*, this plant is "one of only four species belonging to the endemic Hawaiian genus *Kokia* and the only one growing on the island of Hawaii. (Of the other species, *Kokia cookei* is listed as Endangered, *Kokia kauaiensis* is a candidate for listing, and the fourth is extinct.) These plants are related to domestic cotton (*Gossypium* spp.), but do not produce usable fibers. A red dye extracted from the bark of *Kokia drynarioides* was formerly used to color fish-nets."

*Styrax texana*, Texas snowbells, is a 10-foot shrub that has smooth bark and rounded leaves, and bears clusters of snowy white flowers. It has been proposed for listing as Endangered because only 25 individual

plants are known to exist, and there are no known seedlings or saplings. Botanists have recommended further studies to determine if this is due to browsing by cattle or deer. The remaining plants are scattered about in several locations in southern Texas. Critical Habitat has not been designated for this species because its flowers and foliage would make it attractive to collectors.

*Phlox pilosa* var. *longipilosa*, commonly called long-haired phlox, is an attractive perennial found in only two counties in southwestern Oklahoma. The primary threat to this species is habitat loss or disturbance due to quarrying, overgrazing, development and recreation. The plant has been proposed as Threatened without Critical Habitat, since publication of the precise locations of the remaining populations would make them vulnerable to collection.

*P. pilosa* var. *longipilosa* is a 12- to 17-inch plant that is densely covered with long, pointed hairs. Its flowers are rose-purple and tubular, and many flower clusters are borne per stem. The species is part of the mid-grass prairie ecosystem and is found in a very small range in the Quartz Mountains.

—*Endangered Species Technical Bulletin*, September and October 1983



# National Community Gardening Contest Started



**LEFT:** A new gardener learns the basics from an old hand at a GLAD Grocery Garden. **RIGHT:** Above and below, before and after shots of a GLAD Grocery Garden in Cincinnati, Ohio.

A national community gardening contest—the first ever in the United States—has been scheduled for 1984. Sponsored by GLAD Wrap and Bags in conjunction with the American Community Gardening Association (ACGA), the program is designed to focus public attention on the importance of community gardening and to recognize and encourage the efforts of community gardeners nationwide.

Over \$20,000 in cash prizes will be awarded. In addition, participating community gardening groups will be permitted to redeem proof-of-purchase coupons on GLAD plastic products to help fund gardening necessities.

A national winner, first-place runner-up and winners from eight regions will be selected. The categories

will include existing gardens (large and small), new gardens and honorable mention gardens.

George Vestal, vice-president and general manager of GLAD Wrap and Bags, said, "Since the beginning of the GLAD Gardens public service program, we have seen the good that community gardening can do. We started out thinking that vegetable gardening was ideal for economy, nutrition and family fun. It is, but it's also much more. We've seen neighborhoods revitalized, spirits lifted, a new sense of community pride and cooperation evolve where these programs have taken hold. Working with the ACGA on a national contest, we hope, will draw attention to this important activity and reward the outstanding community gardening groups across the country."

Any community gardening group with 10 or more people engaged in the operation and maintenance of a community garden site(s) is eligible to enter the contest. The group must have at least one adult leader or advisor, and the community garden must be at least 10 feet by 10 feet. In addition, a minimum of four vegetables must be grown, and over one-half of the garden must be used to grow vegetables.

Gardens will be judged on plant and soil condition, crops selection, spacing and yield, and color and variety, as well as maintenance and overall aesthetic quality. Gardening groups will also be judged on answers to questions on the entry form.

All entry forms must be mailed on or before June 15, 1984. Preliminary screening of gardens will begin July



15 and continue through August 7. Final judging will take place between August 15 and September 30, with the winners announced the first week in October.

Those gardening groups interested in entering the contest may obtain a contest kit, including the official entry form, by writing to ACGA/GLAD Contest, 230 Park Ave., Suite 1236, New York, NY 10164-0156.

## Community Garden Book

Gardens for All, The National Association for Gardening, has published an inspirational guide for individuals and groups who would like to develop and run successful community gardens in their neighborhoods. *The Community Garden Book* is divided into seven chapters that cover the following general topics: finding sponsoring organizations and planning; budgeting and building local support; finding and keeping land for community gardens; site design; developing the soil; problem solving; and new directions for community gardens.

Each chapter offers many case studies, examples, ideas and practical suggestions for solving such diverse problems as preventing vandalism, finding local funds for a community garden, and improving the soil and composting in a community garden. There are also numerous check lists designed to help beginners develop a successful program. In addition, an extensive book list at the end of each chapter provides references for further study.

Perhaps the most inspirational parts of the book are the many case studies—specific examples of what individuals, groups, organizations and companies throughout the country are doing to solve problems and promote gardening in their communities. The book is also filled with photographs of community garden projects from around the country.

*The Community Garden Book* is available from the Society for \$8.95, including postage and handling. To order a copy write Deborah Harpster, American Horticultural Society, PO Box 0105, Mount Vernon, VA 22121.

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# Gardener's Dateline

## JANUARY 11-14

### American Camellia Society Annual Meeting

Langford Resort Hotel, Winter Park, Florida. Information: American Camellia Society, PO Box 1217, Fort Valley, GA 31030.

## JANUARY 18-22

### Calgary Home and Garden Show

Round-up Center, Stampede Park, Calgary, Alberta, Canada. Hours: Weekdays 5:30 to 10:30 p.m.; Saturday 11 a.m. to 10:30 p.m.; Sunday 11 a.m. to 8 p.m. Admission: Adults \$4.25; Senior Citizens \$3.25; Children \$.50. Information: Bonnie Noyce, Southex Exhibitions, 4019 4 Ave. S.W., Calgary, Alberta, Canada T3C 0B7.

## FEBRUARY 3-12

### Colorado Garden and Home Show

Downtown Currigan Exhibition Hall, Denver, Colorado. Information: Colorado Garden & Home Show, Industrial Expositions, Inc., PO Box 12297, Denver, CO 80212, (303) 458-5615.

## FEBRUARY 3-12

### Vancouver Home and Garden Show

Pacific National Exhibition Grounds, Vancouver, British Columbia, Canada. Hours and admission: See Calgary Home and Garden Show, January 18-22. Information: Southex Exhibitions, 202-2695 Granville St., Vancouver, B.C., Canada V6H 3H4.

## FEBRUARY 9-12

### Minnesota Home and Garden Show

Minneapolis Auditorium, Minneapolis, Minnesota. Hours: Thursday 5 to 10 p.m.; Friday and Saturday 10 a.m. to 10 p.m.; Sunday 10 a.m. to 8 p.m. Admission: Adults \$3.50; Children 6-12 \$1.50. Information: Trade Shows, Inc., 3700 Williston Rd., Minnetonka, MN 55343, (612) 933-3850.

## FEBRUARY 9-13

### Midwest Flower Garden and Outdoor Living Show

Omaha Civic Auditorium, Omaha, Nebraska. Hours: Thursday 6 to 10 p.m.; Friday and Saturday noon to 10 p.m.; Sunday and Monday noon to 6 p.m. Admission: Adults \$3.00; Children under 12 \$1.50. Information: Mrs. Jane Booth, Corporate Development, (402) 536-6994.

## FEBRUARY 12-17

### National Arborist Association Annual Meeting

Caesar's Palace, Las Vegas, Nevada. Information: Robert Felix, Executive Vice Pres., National Arborist Association, Inc., 3537



The formal garden at Vizcaya, the Italian Renaissance palace of John Deering. Society members will visit this and other Miami-area gardens during the Spring Symposium, March 14-17. For more information turn to page 14.

Stratford Rd., Wantagh, NY 11793, (516) 221-3082.

## FEBRUARY 15-19

### Iowa Home and Garden Show

Veterans Memorial Auditorium, Des Moines, Iowa. Hours: Wednesday and Thursday 4 to 10 p.m.; Friday and Saturday noon to 10 p.m.; Sunday noon to 8 p.m. Admission: Adults \$3.00; Children 6-12 \$1.00. Information: Trade Shows, Inc., 3700 Williston Rd., Minnetonka, MN 55343, (612) 933-3850.

## FEBRUARY 22, MARCH 7, 21, APRIL 4, 18

### American Horticultural Society Spring Lecture Series

Mt. Vernon, Virginia. Information: Write or call the Society's Education Department.

## FEBRUARY 23-26

### Ark-La-Tex Home and Garden Show

Exposition Hall, Shreveport, Louisiana. Information: Ark-La-Tex Home and Garden Show, c/o Page Enterprises, Inc., Route 3, Box 12, Gravois Mills, MO 65037, (314) 372-2277.

## FEBRUARY 23-26

### Memphis Home and Garden Show

Everett R. Cook Convention Center, Memphis, Tennessee. Information: Memphis Home & Garden Show, Suite 401, 6055 Primacy Parkway, Memphis, TN 38119, (901) 682-2435.

## FEBRUARY 24-26

### American Rock Garden Society Study Weekend

Fort Worden Conference Center, Port Townsend, Washington. Information: Evie Douglas, Registrar, 11907 Nevers Rd., Snohomish, WA 98290.

## FEBRUARY 24-MARCH 4

### Cleveland Home and Flower Show

Cleveland Public Hall, Convention Center Complex, Cleveland, Ohio. Information: Cleveland Home & Flower Show, 118 St. Clair Ave. N.E., Suite 100, Mall Building, Cleveland, OH 44114, (216) 621-3145.

## FEBRUARY 25-MARCH 4

### Central Ohio Home and Garden Show

Ohio State Fairgrounds, Columbus, Ohio. Hours: Weekdays 4 to 10 p.m.; Saturdays 1 to 10 p.m.; Sundays 1 to 7 p.m. Admission: Adults \$4.00; Children free. Information: W. James Hadley, Vice President, Hart Productions, Inc., 1172 W. Galbraith Rd., Cincinnati, OH 45231, (513) 522-7330.

## FEBRUARY 25-MARCH 4

### Southern Living Show

Charlotte Merchandise Mart, Charlotte, North Carolina. Hours: Weekdays and Saturdays 10 a.m. to 9:30 p.m.; Sundays 10 a.m. to 6 p.m. Admission: General \$4.00; Advance \$3.50. Information: Southern Shows, Inc., PO Box 36859, Charlotte, NC 28236, (704) 376-6594.

## MARCH 1-MAY 20

### Exhibition: Reflections of Nature: Flowers in American Art

Whitney Museum of American Art, 945 Madison Ave., New York, New York. Information: Whitney Museum of American Art, 945 Madison Ave., New York, NY 10021, (212) 570-3633.

## MARCH 3-11

### Cincinnati Home and Garden Show

Convention Center, Cincinnati, Ohio. Hours: Weekdays 5 to 10 p.m.; Saturdays 1 to 10:30 p.m.; Sundays 1 to 7 p.m. Admission: Adults \$3.50; Children \$1.00. Information: Hart Productions, Inc., 1172 W. Galbraith Rd., Cincinnati, OH 45231, (513) 522-7330.

## MARCH 3-11

### Indiana Flower and Patio Show

Indiana State Fairgrounds, Exposition and Expo-Pavilion Buildings, Indianapolis, Indiana. Hours: Monday through Thursday 11 a.m. to 9 p.m.; Friday and Saturday 11 a.m. to 10 p.m.; Sunday 10 a.m. to 6 p.m.



Information: PO Box 20189, Indianapolis, IN 46220, (317) 255-4151.

#### **MARCH 4**

##### **Midwest Cactus and Succulent Society Show and Sale**

Garden Center of Greater Cleveland, 11030 East Boulevard, Cleveland, Ohio. Hours: noon to 5 p.m. Admission: Free. Information: Deborah L. Tolar, Publicity Office, The Garden Center of Greater Cleveland, 11030 East Boulevard, Cleveland, OH 44106, (216) 721-1600.

#### **MARCH 5-12**

##### **Eleventh World Orchid Conference**

Miami, Florida. Information: Eleventh World Orchid Conference, Inc., PO Box 59-5150, Miami, FL 33159, (305) 635-6144.

#### **MARCH 7-11**

##### **Tennessee Lawn and Garden Fair**

Tennessee State Fairgrounds, Nashville, Tennessee. Information: Richard C. Page, Director, Botanical Gardens, Cheekwood Botanical Gardens and Fine Arts Center, Nashville, TN 37205, (615) 356-3306.

#### **MARCH 8-11**

##### **Metropolitan Louisville Home-Garden and Flower Show**

Kentucky Fair & Exposition Center, Louisville, Kentucky. Information: Metropolitan Louisville Home-Garden & Flower Show, 1800 Arthur St., Louisville, KY 40217, (502) 637-9737.

#### **MARCH 10-18**

##### **New England Spring Garden and Flower Show**

Bayside Exposition Center, Boston, Massachusetts. Hours: Sundays 10 a.m. to 8 p.m.; Monday through Saturday 10 a.m. to 10 p.m. Admission: General \$6.00; Advance \$4.00. Information: Bette Levine, Flower Show Secretary, Horticultural Hall, 300 Massachusetts Ave., Boston, MA 02115, (617) 536-9280.

#### **MARCH 11-18**

##### **Philadelphia Flower Show**

Philadelphia Civic Center, Philadelphia, Pennsylvania. Hours: Sunday 10 a.m. to 6 p.m.; Monday through Saturday 10 a.m. to 9:30 p.m. Admission: Adults \$6; Children under 12 \$3; Advance Group \$5.25. Information: Pennsylvania Horticultural Society, 325 Walnut St., Philadelphia, PA 19106, (215) 625-8250.

#### **MARCH 14-17**

##### **American Horticultural Society Spring Symposium**

Miami, Florida. Information: See page 14 of this newsletter.

#### **MARCH 18-26**

##### **AHS Post-Symposium Tour**

Florida's west coast, the Everglades and EPCOT. Information: See page 3 of this newsletter.



## **Horticultural Explorations**

*All members of the American Horticultural Society are eligible to participate in these exclusively planned explorations. The arrangements are high-quality, with first-class hotels, most meals and tips included. Besides public and private gardens, visits to diversified nurseries are included.*

**Spring & Fall England** (May, September) Here are two opportunities to visit the International Garden Festival in Liverpool, held only once every 10 years. Our spring trip also includes the Chelsea Flower Show and the rolling country-side of Kent, Surrey and Chester. The autumn trip takes in the Royal Horticultural Autumn Show and East Anglia, an unspoiled area. We will be greeted by the hosts of some of the most impressive private homes, guided through their homes and gardens, and sometimes served tea or meals. Enjoy one of the most avid gardening countries in the world.

**Switzerland** (June 5-18) Visit the famous castle and gardens of the Mainau Island in Lake Constance, public botanical gardens, as well as interesting private gardens. The picturesque lake country of northern Italy, delicious chocolate factories and spectacular Alpine scenery are all part of this spectacular tour.

Other horticultural explorations available in 1984 are: Florida (March 18-26), Israel (March 23-April 5), Spring in the South (March 23-30), Japan (April-May, July-August), Pacific Northwest (May), New Zealand (October-November), Autumn in the Orient (November).

For any of these programs, please write for your free brochure to the Education Department, American Horticultural Society, Mt. Vernon, VA 22121. Or telephone 1-703-768-5700.



## **WATER-LILIES in your garden.**

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# Gardener's Marketplace

## CLASSIFIED AD RATES:

60¢ per word; \$10.00 minimum per insertion. 10% discount for three consecutive insertions using same copy. Copy must be received two months prior to publication date. Send orders to the attention of Cindy Weakland, American Horticultural Society, Mount Vernon, Virginia 22121. Or call (703) 768-5700.

## ALPINE & ROCK GARDEN PLANTS

AN EVERGROWING AND CHANGING CATALOG. Over 1,000 cold-hardy varieties described with cultural advice. The finest dwarf perennials, shrubs, conifers, wildflowers, groundcovers, ferns, woodland plants and more. Catalog and Fall Supplement, \$1.50. SISKIYOU RARE PLANT NURSERY, Dept. 44, 2825 Cummings Road, Medford, OR 97501. (U.S. shipping only.)

## AMARYLLIS

Amaryllis Special—3 Hybrids, 3" diameter, dark red, white, pink, tangerine. \$11.95 Postpaid. HANCOCKS, Rt. 4, Box 933, Manchester, TN 37355.

## ANT REPELLANT

BEST EVER ANT REPELLANT!! Organic, non-toxic. Bottle of concentrate and instructions, \$6.80. SURVIVAL SERVICE, Box 42152-H, Los Angeles, CA 90042.

## APPLE TREES

Granny Smith, Ozark Gold, Yates, Fuji, all adapted to the South. We guarantee our trees to be clean, healthy stock, 4 ft. tall, semi-dwarf. The rootstock mm111 is tolerant of a wide range of growing conditions. \$10.00 ea. Ppd. Minimum TWO per order. FRUITWOOD NURSERY, Box 303A, Molena, GA 30258. ATTN: Paul Vignos. Order 9 get 1 FREE.

## THE AVANT GARDENER

"DIFFERENT, EXCITING, GREAT FUN TO READ—for the gardener who wants to get more out of gardening!" Subscribe to THE AVANT GARDENER, the most useful, most quoted of all gardening publications. Every month this unique news service brings you the newest and most practical on-going gardening information—new plants, products, techniques, with sources for every item, plus feature articles, special issues. Now in its 14th year. Awarded the Garden Club of America Medal for outstanding achievement in horticulture. Special to new subscribers, \$10 for a full year. Sample copy \$1. THE AVANT GARDENER, Box 489M, New York, NY 10028.

## AZALEAS & RHODODENDRONS

LARGEST SELECTION OF RHODODENDRONS and AZALEAS on the EAST COAST. Mail order catalog \$1.00. ROSLYN NURSERY, Dept. AH, Box 69, Roslyn, NY 11576.

LANDSCAPE SIZE AZALEAS: "For gardeners who care"—Exbury, Windsor, Robin Hill, North Tisbury, Glenn Dale, Gable, Natives and FRAGRANT YELLOWS. Mailorder Catalog \$2.00 (deductible). CARLSON'S GARDENS, Box 305-AH59, South Salem, NY 10590.

## BOOK SEARCH SERVICE

Send your list of wanted gardening books. I'll try to find them. No obligation. (Out-of-print, hard-to-find, antiquarian.) EDWARD F. SMILEY, BOOKSELLER, RFD 5, 43 Liberty Hill Road, Bedford, NH 03102.

## BOOKS

DRIED FLOWERS SO NATURAL THEY LOOK FRESH! Shojw & Tell Books: "STEP BY STEP BOOK OF PRESERVED FLOWERS," 3rd. Ed. 48 pg. includes Microwave and 3 other drying methods for 100 flowers, \$2.95. "STEP BY STEP BOOK OF DRIED BOUQUETS" 2nd Ed. 136 pg.; Williamsburg, Modern, Centerpieces—over 285 photos, color & black and white, \$8.95. Add \$1.00 shipping or both books \$12.90 ppd. FREE newsletter, send stamp. ROBERTA MOFFITT, Box 3597, Wilmington, DE 19807.

"BEAUTY IN FLOWERS" by Mrs. Herbert Greger: A step-by-step guide to the art of flower arranging. Hard cover copy \$7.50 plus \$1.00 postage. Quantity rates available. Mrs. Ine Greger, 12025 Edgepark Ct., Potomac, MD 20854.

EXOTICA 4, enlarged to 16,300 photos, by Dr. A.B. Graf, 2,590 pages in 2 volumes, \$175. TROPICA-7,000 color photos of exotic plants and trees, \$115. EXOTIC PLANT MANUAL-4,200 photos, \$37.50. EXOTIC HOUSE PLANTS-1,200 photos, \$8.95. Circulars gladly sent. ROEHR, Box 125, E. Rutherford, NJ 07073.

## BRITISH TEAK GARDEN SEATS

Solid Teakwood Garden Seats—featured in the arboretums & gardens of England. The perfect heirloom gift for church, park or private garden. Country Casual's newest catalog of "HORTICULTURAL TREASURES" offers juried gifts for men & women who garden. We introduce the stunning British Collection of Chippendale style seating. Two of these Chinese lattice pattern solid teakwood benches were presented as wedding gifts to Prince Charles & Lady Diana.

Choose from other gifts for gardeners: specialty hand tools, lace impressed stoneware wall baskets with Williamsburg floral bouquets, gold floral jewelry—including herb pins & pendants, floral magnets, traditional egg baskets, Colonial oak hayforks & shepherds crook and, antique doll ornaments reproduced in pressed wood and resin. For a catalogue send \$1.00 to COUNTRY CASUAL "Horticultural Treasures," 17317 Germantown Rd., Germantown, MD 20874.

## BROMELIADS

DECORATIVE BROMELIAD PLANTS. 21 page DESCRIPTIVE LIST with prices, \$1.50. Also 80 page BROMELIADS FOR MODERN LIVING with 135 color photos, \$5.00 for both. THE BROMELIAD TREASURY, 639 Bend Drive, Sunnyvale, CA 94087.

## CACTI & SUCCULENTS

Cacti/Succulent plant and seed catalog. \$1.00. MESA FLORA NURSERY, N.B.U. 1002, Yucca Valley, CA 92284.

"CATALOG OF UNUSUAL SUCCULENTS" Discover the largest selection of weird and unusual succulents—over 150 photographs of succulent crests, variegates, living stones, and oddballs. Send \$1.00 today. "CATALOG OF UNUSUAL SUCCULENTS" Dept. A1, 553 Buena Creek Road, San Marcos, CA 92069.

## CARNIVOROUS PLANTS

Carnivorous, woodland terrarium plants and supplies. Book, *The World of Carnivorous Plants*, \$6.95 postpaid. Catalog FREE. PETER PAULS NURSERY, Canandaigua, NY 14424.

## DAYLILIES

FREE daylily price list of over 800 named varieties including tetraploids and miniatures. Quality plants, personal service. SOLOMON DAYLILIES, 105 Country Club Road, Newport News, VA 23606.

## DIARY

INDOOR PLANT DIARY—Organized space for all your information about growth needs and activity of 20 individual plants. Special columns for feeding schedules. Ideal to leave with plant "sitter." \$2.95, THE IDEA GROUP, Box 622, No. Branford, CT. 06471.

## DWARF CONIFERS

Over 170 types of dwarf conifers described by size, shape, color and texture. Many types suitable for Bonsai. 50 page catalog \$1.00 (refundable). Botanic Plant List FREE. WASHINGTON EVERGREEN NURSERY, Box 388AH, Leicester, NC 28748. (704) 683-4518.

## FLOWER ARRANGING SUPPLIES

Carefully selected supplies, equipment and accessories for flower arranging, corsages, houseplants. Illustrated catalog 25¢. Retailers use letterhead. DOROTHY BIDDLE SERVICE, GM1, Greeley, PA 18425-9799.

## FLOWER VASE LAPEL PIN JEWELRY

SILVER/GOLD Flower Vase Jewelry. Original Handcrafted Design. Send SASE: REIL/SHEARER JEWELRY Dept. 1AH4, PO Box 86 Station G Buffalo, NY 14213.

## FRAGRANCE

SEEDS FOR FRAGRANCE, herbs, and the English Flower Garden. Catalogue \$1. THE FRAGRANT PATH, Box 328, Fort Calhoun, NE 68023.

## GARDEN DAIRY

*The Gardener's Diary & Organizer*. New, Practical, complete 52-page book. Seasonal tips, general information, record sheets, file envelopes, wipe-off cover. Illustrations by Jane Scott. Use for one year or many. Perfect aid for gardeners. \$7.95 plus \$1.00 mailing and handling. Send check to: THE WILMINGTON GARDEN CENTER, Box E, 503 Market Street Mall, Wilmington, DE 19801.

## GRAPES—AMERICAN HYBRID VINES

GRAPES — HARDY — Grown Southern Ohio — CONCORD, Purple — NIAGARA, White — CATAWBA, Red — FREDONIA, Early Blue-1-year Strong Vines: 2 for \$2.75 — Any 8 for \$10.00. Ask Quantity Prices. ROCKNOLL NURSERY, 9210 U.S. 50, Hillsboro, OH 45133, (513) 393-1278.

## GREENHOUSE ACCESSORIES

COMPLETE MIST PROPAGATION SYSTEMS. Get phenomenal propagation results—Greater financial yield! Unequalled—inexpensive—FREE BROCHURE. AQUAMONITOR, Box 327-B Huntington, NY 11743.

Hard-to-find equipment, tools and propagating supplies. Unique catalog \$2.00. CHARLEY'S GREENHOUSE SUPPLY, 12815(AH) — N.E. 124th Street, Kirland, WA 98033.

## HEATHS & HEATHERS

Colorful low-cost HEATHER COLLECTIONS shipped UPS. Send SASE for 100-cultivar list. HEATHER GROWERS, Box 850, Elma, WA 98541.



### HERB-GROUND COVER-ROCKERY

Wide selection of HERBS, super hardy GROUND COVER and ROCKERY plants. Catalog gives culinary and medicinal uses and growing instructions. Special section on creating ground cover and rock gardens. Catalog \$2, refundable on first order. Reasonable prices. LOST PRAIRIE HERB FARM, Marion, MT 59925.

### HERB PLANTS

SCENTED GERANIUMS Leaves used for herbs, teas. Catalog of 800 Geraniums, \$1.00 refundable. SHADY HILL GARDENS, 833 Walnut, Batavia, IL 60510.

### HERBS

**Herb Collection:** One sage, one Mint (our choice of varieties), one Burnet, one Italian Oregano and one Lemon Balm; well established in pint perennial cans for \$9.75 ppd. To be shipped in spring. WRENWOOD, Rt 4, Box 361, Berkeley Springs, WV 25411.

ENJOY BEANS WITHOUT GAS!! Use epazote herb as tea or spice. Seeds \$2.50. SURVIVAL SERVICE, Box 42152-H, Los Angeles, CA 90042.

### HORTIDEAS

GARDEN NEWS YOU CAN USE: HortIdeas, monthly newsletter reporting on research, methods, tools and publications for serious gardeners, gleaned from hundreds of popular and technical sources. Detailed articles, complete references. Annually indexed, no advertising. One year, \$10. Sample, \$1. Satisfaction guaranteed. HORTIDEAS A, Gravel Switch, KY 40328.

### HOUSE PLANT ACCESSORIES AND SUPPLIES

Send legal size stamped envelope for catalog. FLORA AD ASTRA, Route 1, Box 333-A-2, Monticello, GA 31064.

### HOUSE PLANTS

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### INDOOR-OUTDOOR GARDENING SUPPLIES

"FREE CATALOGUE" . . . LOWEST PRICES EVER—TOP QUALITY SUPPLIES . . . Plastic pots, hanging baskets, vermiculite, perlite, markers, etc. SAVE! Send 2 stamps for postage. PLANT COLLECTIBLES, 103E Kenview Ave., Buffalo, NY 14217.

### INVENTIONS WANTED

Inventions, ideas, new products wanted for presentation to industry and exhibition at national technology exposition. Call 1-800-528-6050. Arizona 1-800-352-0458. X831.

### MAPLES

MATSU-MOMIJI NURSERY—rare and unusual maples and pine. Descriptive catalog (\$1 refundable) now featuring older plant material. PO Box 11414, Philadelphia, PA 19111 (215) 722-6286.

### MINIATURE ROSES

Like Roses? Grow Minatures—on your windowsill, balcony, under lights. Flowers year 'round! FREE Brochure. MINIATURES, Box 7A, Sardis, B.C. Canada V0X 1Y0.

Grow indoors or out. Award winning miniature rose nursery offers FREE catalogue. Wholesale/Retail. Shipped year round. ROSEHILL FARM, Box 406D, Galena, MD 21635.

## NEW! Help Wanted/ Position Wanted Department

"Help Wanted" and "Position Wanted" advertisements have proven very successful for our classified advertisers. We have therefore decided to initiate this special monthly section, which we hope will be of help to our members. If you are looking for a position or for an employee, please write to Cindy Weakland in care of the Society for more information. Standard classified advertising rates apply. We reserve the right to limit advertising to that of a horticultural nature only.

### HELP WANTED

PERENNIAL GROWER. Experienced grower for developing and expanding containerized perennial nursery. Responsible for production and distribution of perennials for sales to retail stores in greater New York. Send resume to Director of Education, FLOWER TIME, INC., 1178 Route 109, Lindenhurst, NY 11757.

Manager for three year old greenhouse/perennial/nursery retail business with emphasis on growing and propagation. Quality extremely important. Rapidly expanding business with knowledgeable customers. Seeking knowledgeable energetic employee with some working experience, willing to grow with us. For more particulars: DEER MEADOW, Star Route AH-11A, Manset, ME 04656.

### POSITION WANTED

Gardener seeking wholesale nursery employment—willing to supply references upon request. ROBERT BENSON 4211 Ardmore Place, Fairfax, VA 22030.

Expert property care. Land, flora, structures, administration, capably handled. Permanent position sought with on-site housing. L.S., P.O. Box 761, Ojai, CA 93023.

### NERINES

The Autumn Flowering Diamond Lily, New catalogue—80 descriptions—\$2.00. 20 bulbs—stunning colours—\$30, includes post and packing. NERINE NURSERIES, Welland, Malvern, Worcester, WR13 6LN England.

### NEW PERENNIAL POPPIES

Far Superior to existing Oriental Poppy varieties. FREE catalog. MOHNS, INC., Box 2301, Atascadero, CA 93423.

### NURSERY STOCK

MILLIONS OF SEEDLINGS: High quality at reasonable prices. Over 100 selections for Christmas trees, ornamentals, windbreaks, conservation, wildlife food and cover, etc. FREE catalog, CARINO NURSERIES, Box 538J, Indiana, PA 15701.

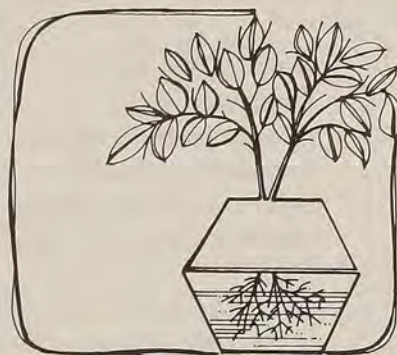
GROW EVERYGREENS FROM SEED. Evergreen seeds and seedlings; also strawberries, fruit trees and small fruit. FREE catalog. RECOR'S TREE SEED, A640 El Paso, Denver, CO 80221.

### ORCHID BEGONIA HOUSEPLANT SHOW

BITTERSWEET HILL NURSERIES, Rt. 424 & Governor's Bridge Rd, Davidsonville, Maryland is hosting an Orchid-Begonia-Houseplant Show inside our warm Greenhouses February 25-26, 9 a.m. to 5 p.m. Over 200 varieties featured in exhibits and demonstrations. Special plant sale, Door Prizes. Public Invited! (301) 798-0231.

## GREAT NEWS FOR YOUR HOUSE PLANTS AND YOU

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Now you can grow healthy plants indoors—even tomatoes using a totally new and simple system called "Nutriponics".

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## PALM SOCIETY

THE INTERNATIONAL PALM SOCIETY members receive the quarterly journal "Principes," and have access to a seed bank which distributes seeds of rare palms collected worldwide. Exciting 1984 Biennial meeting in San Francisco, following 1984 Biennial meeting in San Francisco, fol-



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lowed by a tour of Australia. Membership \$15 per year. THE INTERNATIONAL PALM SOCIETY, Box 368, Lawrence, KS 66044.

## PERENNIALS

UNUSUAL ROCK and SHADE PLANTS, Hosta, Hemerocallis, Sempervivums, Shrubs, Iris, Native Americans, Seed, Dwarf Evergreens, Grapes. 24 Page Catalog. Please send 40¢ in stamps. ROCKNOLL NURSERY, 9210 U.S. 50, East, Hillsboro, OH 45133.

WRENWOOD'S Mid-Winter Perennial Sale—Maltese Cross (Lychnis chalcidonica), Ginger Mint (M. 'Emerald N' Gold'), Yellow Stonecrop (Sedum ellacombianum), English Pennyroyal (Mentha pulegium), Maiden's Pink (Dianthus delt. 'Zing'), Dwarf Coreopsis (C. 'Baby Sun'), Mountain Alysium (A. montanum), Cottage Pink (Dianthus plumarius 'Sonata'), Tea Mint (M. 'Blue Balsam'), and Rose Campion (Lychnis coronaria atropurpurea). All are well established in pint perennial cans—\$1.95 ppd. each or 3 of the same variety—\$5.70 ppd. Will be shipped in the spring. Prices to change Feb. 1—order now and save. WRENWOOD, Rt. 4, Box 361, Berkeley Springs, WV 25411.

HARDY PERENNIALS, herbs, wildflowers. Strong plants, reasonable prices. Descriptive catalog \$1.00. SEXTON NURSERY, 23340 Doane Cr. Rd. AH, Sheridan, OR 97378.

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## PLANTS—RARE BUT AFFORDABLE

Extensive selection: \*American Natives \* Outstanding Ornamentals \* Uncommon Conifers \* Wild Fruit \* Hardest Eucalyptus \* Wildlife Plants \* Affordable containerized starter-plants. Informative catalog—\$1.50. FORESTFARM, 990 Tetherah, Williams, OR 97544.

## RARE NATIVE PLANTS

Rhododendron chapmannii, R. austrinum, R. speciosum, R. serrulatum, R. prunifolia, Magnolia ashei (Weatherby), Magnolia pyramidata, Stewartia malacrodendron. Grown from native seed or cuttings. Write for prices and shipping dates. SALTER TREE FARM, Rt. 2, Box 1332, Madison, FL 32340.

## RHODODENDRONS & AZALEAS

NEW 1984 CATALOG, \$2.00, over 50 pages, many helpful lists, pictures. Do you have special needs, a collector's taste? Personalized attention to your order, Superior plant quality guaranteed. THE BOVEES NURSERY, 1737A SW Coronado, Portland, OR 97219.

## ROCK PLANTS—UNUSUAL

Over 300 varieties for Sun & Shade. Dwarf Evergreens, Seed. 24 Page Catalog. Please send 40¢ in stamps. ROCKNOLL NURSERY, 9210 U.S. 50, East, Hillsboro, OH 45133.

## SEEDS

Asian greens, Italian chicories, European lettuces, American heirlooms including the White Cheesquake pumpkin. These and many more in our 1984 catalog which is richly illustrated with line art, and packed full of cultural tips, historical anecdotes, and over 30 culinary processes and recipes. Send \$2.00 to LE MARCHE SEEDS INTERNATIONAL, Dept. Y, PO Box 566, Dixon, CA 95620.

ROCKNOLL'S FRESH SEED—Over 75 varieties ROCK PLANTS, Perennials, American Natives, HOSTA, Siberian Iris. Large Stamped Envelope for List ROCKNOLL NURSERY, 9210 U.S. 50, Hillsboro, OH 45133.

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NON HYBRID SEED PORTFOLIOS. Hundreds of non hybrid seeds individually selected for all United States growing regions. Includes fruits, nuts, grains, herbs, vegetables and instructions. Write to the SEED PROJECT, PO Box 1676, Weaverville, CA 96093.

FREE CATALOG: Unusual Seed Varieties: plus wide selection of tomatoes. GROW: Purple Peppers, Purple Broccoli, Pinky Eggplant, Green Ripe Tomatoes and More. GLECKLER'S SEEDMEN, Metamora, OH 43540.

## SEMINARS

Bulbs in the Residential Garden. Saturday, March 31, 1984, 9:30 a.m. to 3:30 p.m. This symposium, designed for the knowledgeable gardener, will explore the principles of using bulbs in the landscape. Topics • Using Bulbs in the Landscape • Bulbs in the Garden Plan • Specialized Uses of Bulbs: Perennial Beds, Naturalized Areas, Rock Gardens, Containerized Cut Flowers. Write or call: The Education Department, THE NEW YORK BOTANICAL GARDEN, Bronx, NY 10458. (212) 220-8747.

## UNUSUAL INDOOR PLANTS

NEW! Color catalog, 1984-86—\$3.00, now lists 2,000 unusual Indoor Plants—Begonias, Exotics, Geraniums, Jasmines, Herbs. LOGEE'S GREENHOUSES, AH, 55 North Street, Danielson, CT 06239.

## VEGETABLE PLANTS

GROW YOUR OWN SWEET ONIONS—Best varieties. FREE instructions and recipes with each order. Onion Plants are hardy—PLANT EARLY! 500 plants—\$12.50; 250 plants—\$9.50. Write for complete listing. TEXAS ONION PLANT CO., Box 871 HS, Farmersville, TX 75031... "Home of the Sweet Onion."

## WANTED

Sponsors and donations needed to help a small serious plant grower expand into growing rare, exotic, endangered plants. Write: GROWER, PO Box 118, Moyock, NC 27958.

## WILDFLOWERS

"HOW TO GROW WILDFLOWERS FROM SEED." Send \$1 for new detailed brochure that makes it all easy: When, where, what to plant—for less work, less cost, and more beauty. FREE seed list included. VERMONT WILDFLOWER FARM, Box A, Charlotte, VT 05445.

## WOODLANDERS

RARELY OFFERED SOUTHEASTERN NATIVES, woody, herbaceous, nursery-grown. Many hardy northward. Also newly introduced exotics selected for Southern gardens. Send SASE for extensive mailorder list. WOODLANDERS AH, 1128 Colleton, Ave., Aiken, SC 29801.



# 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 after checking for retail sources through our catalogue file.

- **Asarum sp.**, any yellow and green variegated cultivar. **Filipendula ulmaria 'Aureo-variegata'**, a variegated cultivar of the plant commonly called queen-of-the-meadow, a six-foot perennial with cream-white flowers. **Tristania conferta 'Variegata'**, an Australian native tree commonly called Brisbane box. Randy Robinson, 2305 NE 45, Portland, OR 97213.

- **Taxus baccata 'Adpressa Variegata'**, a rare cultivar of the common English yew. William D. Burke, 55 Havenhurst Road, West Springfield, MA 01089.

- **Distictis laxiflora**, vanilla trumpet vine, a native of Mexico bearing 3½-inch, trumpet-shaped flowers that are violet fading to white and have a vanilla scent. Bob Feingold, The Houston Heights, 1327 Ashland Avenue, Houston, TX 77008.

- **Catabrosa aquatica**, water whorl-grass, a pale green, one- to two-foot creeping or floating plant found along pond margins and in ditches. Carol Bishop, 2309 N. Ridge Road, Findlay, OH 45840.

- **Muscari botryoides 'Carneum'**, a pink cultivar of the common grape hyacinth. Also looking for the cultivar 'Roseum', which was listed in an old gardening magazine. Mrs. Arnold Hughes, R.R. 21, Box 485, Terre Haute, IN 47802.

- **Corylus chinensis**, Chinese filbert or hazelnut. Sometimes considered a botanical variety of *C. colurna* (*C. colurna* var. *chinensis*). Robert G. Seip, R.D. #1, Box 683, Alburtis, PA 18011.

- **Rosa 'Ami Quinard'**, an old rose with dark, velvety red, semi-double blooms. Helen Davidoff-Hirsch, M.D., 221 Lydecker Street, Englewood, NJ 07631.

- **Ilex opaca**, any older named cultivars of the American holly. Rick and Bev Coleman, Coleman Nurseries, 21 Valley View Drive, Mechanicsburg, PA 17055.

- **Amorpha canescens**, lead plant, a four-foot shrub with grey, hairy foliage. Artemas P. Richardson, North Road, RFD 1, Box 95A, Fremont, NH 03044.

- **Larix laricina**, tamarack or American larch, any cultivar or variety that is an especially heavy cone-bearer. Peter J. Knop, Ticonderoga Farm, Rural Route 1, Box 413, Chantilly, VA 22021.

- **Schizopetalon walkeri**, a mustard family member with white, almond-scented flowers native to Chile. **Nerium indicum**, a sweet-scented oleander with a pink or white corolla. **Akebia quinata**, a fragrant, night-blooming vine from Asia that reaches a height of 20 feet.

- Clematis heracleifolia** var. **davidiana**, a woody subshrub from China with blue, hyacinth-like flowers. **Silene alba**, formerly *Lychnis alba*, commonly called white campion or evening lychnis. **Abronia umbellata**, pink sand verbena, a prostrate, vinelike perennial with pink fragrant flowers. **Zaluzianskya villosa**, formerly *Nycteria villosa*, a tender, night-blooming annual from South Africa with fragrant flowers. **Oenothera caespitosa**, an evening primrose with white or pink fragrant flowers. **Gladiolus tristis**, a two-foot plant with fragrant, yellowish-white flowers that are streaked with purple. **Elsholtzia stauntoni**, mint shrub, a Chinese native bearing fragrant, spirelike, pinkish or purple flowers in autumn. **Humea elegans**, a sweet-scented, six-foot biennial from Australia. Jacqueline Erco-reca, 3319 N. Troy, Chicago, IL 60618.

- **Castanea dentata**, American chestnut. A special request for information on chestnut trees that have

survived in the southern Appalachian portion of the species' natural range. Trees that have had growth above the root collar during at least some of the years since 1940 may provide worthwhile parent material that might otherwise be lost. Would also like information on any chestnut with a trunk diameter of 12 inches or more. P. F. Brown, 113 Columbia Drive, Oak Ridge, TN 37830.

- **American native plants**, a special request for seven species native to North America, all of which are known for their medicinal properties. *Apocynum androsaemifolium*, common dogbane; *Aristolochia serpentaria*, Virginia snakeroot; *Eupatorium aromaticum*; *Helianthemum canadense* (formerly *Crocianthemum canadense*), frostweed; *Onosmodium virginianum*, false gromwell; *Penthorum sedoides*, Dutch stonecrop; *Polygonum sagittatum*, arrow-leaved tearthumb, Alain Vendryes, 7 rue du Vicomte, 40140 Soustons, France.

## New Uses for Kudzu

Researchers around the country continue to study kudzu, *Pueraria lobata*, in an effort to find new uses for this rampantly growing plant that carpets many parts of the southern United States.

Graduate students at the University of Alabama have discovered a chemical in the leaves and stems of kudzu that reduces blood pressure in laboratory animals and that may someday be used in humans. At Vanderbilt University, scientists have discovered two other possible uses for the plant: its starchy roots can be fermented to produce baker's yeast as well as ethanol fuels. Researchers at Vanderbilt are also trying to develop a decomposition process for separating the softer parts of the kudzu vine from the high tensile strength fibers. These fibers, which have long been used by Japanese weavers, would be used in cloth making.

—Virginia Wildlife, August 1983



# AHS Spring Symposium Program

*Leave winter woes behind and join us in Miami for our Spring Symposium. Tour Fairchild Tropical Garden and stroll through Vizcaya. We'll also visit The Kampong—once home to world-renowned plant explorer David Fairchild—and the Orchid Jungle. Be sure to join us—South Florida promises to be in the full bloom of spring.*

## Wednesday, March 14

**1:00 p.m. to 6:00 p.m.**—*Registration*, ballroom level, Omni Hotel, Biscayne Boulevard at 16th Street, Miami, Florida.

**6:00 p.m. to 7:00 p.m.**—*No-Host Cocktail Reception* for Symposium participants at the Omni Hotel.

**Wednesday Evening**—Dinner on your own. There will be an informal evening program for Symposium participants. Look for details in your Registration Packet.

## Thursday, March 15

**8:00 a.m. to 9:00 a.m.**—*Late Registration*, ballroom level, Omni Hotel, Biscayne Boulevard at 16th Street, Miami, Florida.

**9:00 a.m. to 12:00 noon**—*Education Session*. The Symposium speakers will be:

- **Thomas A. Fennell, Jr.**: President of the Orchid Jungle, a 20-acre orchid and tropical plant nursery in Homestead, Florida, Mr. Fennell is an expert on growing, hybridizing, exhibiting and propagating orchids. He is an authority on meristem propagation (tissue culture). He will talk about new developments in the orchid world.

- **DeArmand Hull**: An Ornamental Horticulturist for the Florida Extension Service and a member of the faculty of the University of Florida, Mr. Hull is also an international authority on palms. He will discuss palms as indoor plants.

- **Nat DeLeon**: President of the International Bromeliad Society, Mr. DeLeon is also the horticulturist in charge of the grounds at Miami's famous Parrot Jungle. He will demonstrate and discuss the cultural requirements of bromeliads.

- **Paul Soderholm**: A horticulturist and Curator of Plant Germplasm at the U.S.D.A.'s Subtropical Horticulture Research Station in Miami and the U.S.D.A.'s Tropical Agriculture Research Station in Mayaguez, Puerto Rico. Mr. Soderholm has hybridized many ornamental plants. He will talk about introducing new ornamental plants for the landscape.

**12:30 p.m. to 1:30 p.m.**—Lunch at the Omni Hotel.

**1:45 p.m. to 5:00 p.m.**—*Afternoon Garden Tour of Vosters Nursery and the U.S.D.A. Subtropical Horticulture Research Station*.

- **Vosters Nursery, Inc.**: This is a wholesale nursery that specializes in tropical house plants, especially calamondins (miniature orange trees), bromeliads, and aglaonemas. Our tour will include an in-depth look at the production and propagation of tropical plants.



Palms, cycads, bromeliads, orchids, hibiscus and many other trees native to South Florida and the Bahamas await us at Fairchild Tropical Garden.

- **U.S.D.A. Subtropical Horticulture Research Station**: This 200-acre station has played a primary role in the study and development of tropical plants in this country and abroad. Special emphasis has been placed on such diverse plants as coffee, mango, palm, avocado, lychee and other miscellaneous fruits and ornamentals. We will take a bus tour of the test gardens and research plots where scientists continue to develop new cultivars of tropical plants and study such diseases as Lethal Yellowing of palms. U.S.D.A. guides will accompany each bus.

**Thursday Evening**—Dinner on your own. There will be an informal evening program for Symposium participants. Look for details in your Registration Packet.

## Friday, March 16

**9:00 a.m. to 5:00 p.m.**—*All-Day Tour of Fairchild Tropical Garden and the Orchid Jungle*. We will have a box lunch at Fairchild Tropical Garden.



● **Fairchild Tropical Garden:** Famous for its palm and cycad collections, Fairchild also boasts a Rare Plant House filled with exotic plants, a Hibiscus Garden, a tropical rain forest, a Sunken Garden and many other displays of tropical flowering plants. We will tour the garden (which also features seven lakes) both by tram and on foot.

● **Orchid Jungle:** Orchids, ferns, bromeliads, anthuriums and other tropical plants fill this 20-acre retail nursery and garden. We will have a guided tour of the three main display houses and conservatories, explore the original Florida hammock with its jungle-like plant community, and see a demonstration on tissue culture. Symposium participants will receive a special 10 percent discount on purchases.

**6:15 p.m. to 10:30 p.m.**—*Moonlight Cruise in Biscayne Bay and Miami Harbor.* We will board the Show Queen for an evening of dinner and dancing under the stars.

#### **Saturday, March 17**

**9:15 a.m. to 5:00 p.m.**—*All-Day Garden Tour of Vizcaya, The Kampong and a Private Garden.* We will have lunch at The Kampong.

● **Vizcaya:** This magnificent Italian Renaissance villa was built from 1914 to 1916 by James Deering of International Harvester. We will tour the house—with its Renaissance, Baroque, Rococo and Neoclassical rooms—and the formal gardens, which feature innumerable grottoes, pools, fountains and sculptures. During our visit, Vizcaya will be

hosting its annual Renaissance Fair, featuring a Human Chess Game and other colorful attractions.

● **The Kampong:** Former home of world-famous plant collector and hybridizer David Fairchild, The Kampong is now owned by an AHS Board Member. This 10-acre property on the shores of Biscayne Bay houses a unique collection of tropical plants. Look for the article featuring The Kampong in the February, 1984 issue of *American Horticulturist*.

● **The Fogg Residence:** This private garden is landscaped entirely with native Florida plants. The owners' goal was "to work with nature and to recreate a [Florida] hammock effect."

**6:30 p.m. to 10:00 p.m.**—*No-Host Cocktail Reception and President's Banquet.* The evening speaker will be Dr. Robert J. Knight, who is a Research Horticulturist specializing in fruit at the Subtropical Horticulture Research Station in Miami. He is also a plant explorer who has written numerous articles and research papers. His topic will be "Frontiers of Horticulture—View from the Subtropics."

#### **Sunday, March 18**

**Departures for home** or for the Society's Post-Symposium Tour of Florida's West Coast. For more information on the Post-Symposium Tour, see page 3 of this newsletter, or call or write the Society's Education Department. Omni Hotel check-out time is 12:00 noon.

## **Registration Form**

### **American Horticultural Society's Spring Symposium**

### **March 14-17, 1984—Miami, Florida**

**IMPORTANT:** Registrations must be postmarked by March 2, 1984.

**PLEASE REGISTER EARLY!** All of the events described in the program are included in the registration fee.

**HOTEL INFORMATION:** When we receive your registration form and check we will send you a hotel reservation card. Please return the card to the Omni International Hotel. You will receive room confirmation directly from the Hotel's reservations office. Hotel room rates for the Society's Spring Symposium have been established at \$60 single or double. PLEASE register early to guarantee room availability. The Hotel will hold rooms for AHS Symposium participants until February 22, after which time reservations will be made on a space-available basis.

**CANCELLATIONS:** Full refund, less \$35 per person for booking expense, if written cancellation is postmarked by March 2nd. No refunds after March 3rd.

**TRANSPORTATION:** Eastern Airlines will be our official airline for the Spring Symposium. The toll-free number for the Convention Desk is 800-327-1295 (in Florida 800-432-1217). To speed your service, please request # EZ3-P53. Eastern will guarantee you the best available rates when you call. If Eastern does not service your area, they will make reservations for you at the best available rates with another airline that does fly from your home to Miami.

**IMPORTANT:** Registrations must be postmarked by March 2, 1984.

#### **PLEASE REGISTER EARLY!**

\$225 for single \$ \_\_\_\_\_

\$450 for double \$ \_\_\_\_\_

Enclosed is a check for \$ \_\_\_\_\_

**Please send payment in full to:** American Horticultural Society, Education Department, Box 0105, Mount Vernon, VA 22121.

Name \_\_\_\_\_

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

Address \_\_\_\_\_

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

Please list your name as you wish it to appear on your name badge, if different from above:

\_\_\_\_\_



# Gardening Books to Order

## **Longwood Gardens Plant and Seed Sources**

Longwood Gardens has published a 74-page booklet listing sources for over 1,300 superior species and cultivars grown at the gardens. The list is divided into sections on annuals, perennials, vegetables, herbs, conservatory flowers and needled evergreens. Each plant is keyed to commercial sources, and the book lists both retail and wholesale companies.

To order a copy of *Longwood Gardens Plant and Seed Sources*, send \$2.50, including postage and handling, to Longwood Gardens, Visitor Center, Kennett Square, PA 19348. (PA residents add 9¢ sales tax.)

## **Low-Maintenance Gardening**

This is the newest title in the Brooklyn Botanic Garden's series of useful publications. This informative, 73-page book provides work-weary gardeners with many useful ideas that will help reduce unnecessary workloads. Chapters on perennials, trees and shrubs, annuals and vegetables suggest many species that require little maintenance. There are also several chapters that stress the importance of planning and design in reducing workloads. Other subjects covered include low-maintenance lawns, construction materials, practical rock gardening, native plants, mulches, integrated pest manage-

ment and ground covers. Each chapter ends with a list of suggested references. *Low-Maintenance Gardening* is well illustrated with useful drawings and photographs.

To order a copy of *Low-Maintenance Gardening*, send \$3.05, including postage and handling, to Brooklyn Botanic Garden, 1000 Washington Avenue, Brooklyn, NY 11225.

## **Fuchsia Checklist**

Fuchsia enthusiasts will want to order a copy of the American Fuchsia Society's 91-page booklet, *A Checklist of Fuchsias Registered 1973-1983*. The booklet lists and describes over 700 fuchsia cultivars introduced by hybridizers all over the world. Each description includes information on the plant's habit, brief cultural notes and a detailed description of the flowers.

To order a copy of *A Checklist of Fuchsias Registered 1973-1983*, send \$4.00, including postage and handling, to American Fuchsia Society Book Sales, 867 South Knickerbocker, Sunnyvale, CA 94087.

## **Rose Handbook**

The 1984 edition of the American Rose Society's popular *Handbook for Selecting Roses* is now available. The 35-page booklet lists 1,000 roses (including hybrid teas, climbers and miniatures), classifies them by color,

and provides a national rating based on their performance. The information presented in this handy booklet is compiled from the reports of thousands of American Rose Society members from around the country.

To order a copy of the *Handbook for Selecting Roses*, send \$.50 and a stamped, self-addressed envelope to the American Rose Society, Department US, PO Box 30,000, Shreveport, LA 71130.

## **Zinnia Bacterial Leaf Spot Control**

Bacterial leaf spot on zinnias originates on the surface of the seed and is best controlled before sowing. For best results, place seeds in a plastic bag containing a slurry of about one ounce of Captain Wettable Powder to three ounces of water. Shake the bag to thoroughly cover the seeds, then dry them on a paper towel. Plant within 24 hours of treatment. Foliar sprays are ineffective in controlling the disease.

In tests reported by *Canadian Florist*, zinnias grown at temperatures below 68°F did not exhibit bacterial leaf spot, while plants grown at temperatures of about 84°F under very humid conditions had the most severe infection.

—*Florascope May 1983*

# American Horticulturist

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