



Minnesota Landscape  
ARBORETUM

# ARBORETUM *News*

MAY/JUNE 2003 VOL 22 NO 3

UNIVERSITY OF MINNESOTA

Dave Rogers'  
**BIG BUGS**  
Presented by TARGET



MAY 3 - SEPTEMBER 28

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## BIG BUGS AT A GLANCE

- Big Bugs Member Preview –  
May 2
- Bud Break 5K Run/Walk –  
May 4
- Arboretum Plant Sale –  
May 10–11
- BIG BUGS GRAND OPENING** –  
May 17
- Family Programs – Sundays,  
Noon–3 p.m., May–August
- Family Programs – Saturdays,  
Noon–3 p.m., June–August
- Buggy In The Garden –  
June 5– August 21
- Dad's Bug-Out Day – June 15
- Midsummer Night's Eve Flower  
Festival – June 19
- Picnic with the Ants – July 19
- Bug & Plants Festival –  
August 16
- Fall Festival – September 27
- Big Bugs Final Day –  
September 28



## SUMMERTIME AT THE ARBORETUM IS A FAMILY AFFAIR

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BY PETER J. OLIN

### *Arboretum Director*

Is it summer yet? It must be, because the bugs are here – the **Big Bugs!** We have 13 of Dave Rogers' larger-than-life sculptures – what an exhibit!

Big Bugs is a way of making a connection between gardening, scientific inquiry, and art. The sculptures are works of art, yet anatomically correct. They are exhibited with explanations of their role in the environment. As gardeners we all deal with the insects in our garden and need the practical, cultural information that our classes and informal learning experiences will impart to you.

Throughout the summer we will have activities for kids and the

whole family. Many of the programs will include information on encouraging the beneficial "bugs," removing the damaging ones and, of course, how to live with the rest.

A visit to the Arboretum is a family affair. Big Bugs are the current attraction, but the Arboretum's ongoing theater of seasons offers year-round interest. Further, the Arboretum is a place to enjoy, luxuriate in, and rediscover your connection to the earth. Bring or purchase a lunch, find your perfect spot on the grounds, spread a blanket, and enjoy a picnic among the delights of nature.

But even a fine day may have a few clouds on the

*Summer continued  
on page 8*

See  
page 2  
for your

members-only  
invitation to the  
**BIG BUGS Preview &  
Artist Reception on May 2**

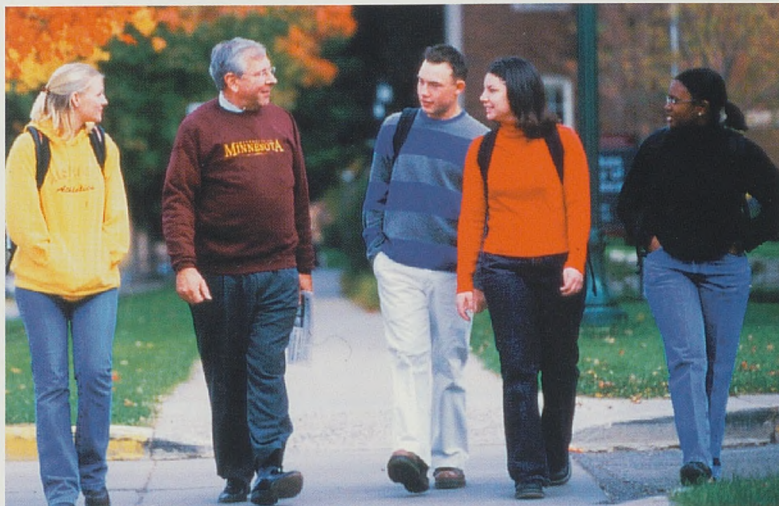
## THREE-PART ARBORETUM MISSION CREATES VALUE FOR ENTIRE STATE

BY CHARLES C. MUSCOPLAT  
*Vice President and Dean  
College of Agricultural, Food and  
Environmental Sciences*

Look at a flower and the first thing you see is the color and the shape. Look a little deeper and you see a complex biological system that shapes the future of the species and works in collaboration with insects and natural forces.

The University of Minnesota Landscape Arboretum is a lot like that flower. When you first look at the Arboretum you see blooming plants, flowering shrubs and beautiful trees. Look a little deeper and you'll see more than just a wonderful botanical garden. You'll see a living laboratory with a vibrant research program on all aspects of nature.

Since 1908 University of Minnesota horticultural scientists have used the Arboretum grounds to develop flowers and fruits that prosper in cold climates. Their



COAFES  
Dean,  
Charles C.  
Muscoplat,  
in maroon  
and gold  
sweatshirt,  
strolls with  
students on  
the University  
of Minnesota's  
Minneapolis  
campus.  
Photo:  
Steve Woit  
Photography

work resulted in Honeycrisp™ apples, winter-hardy mums, northern azaleas and dozens of other species built to thrive in the summer and survive the winter.

Plants are only part of the Arboretum research program. College of Agricultural, Food and Environmental Sciences researchers use the Arboretum grounds to investigate ways to preserve wetlands and improve water quality in the Spring Peeper Meadow. Even the new Arboretum parking lots are monitored by researchers working to develop solutions to water runoff from urban development.

Outreach activities share the latest growing news discovered at the Arboretum with groups ranging from inner-city youth in Minneapolis to Master Gardeners in Pipestone. A recently introduced program even helps provide K-12 teachers the plans and expertise to grow learning gardens for education on their school grounds.

The Arboretum is an important research and outreach component of the College of Agricultural, Food and Environmental Sciences' Horticultural Science Department. The impact of the work done at the Arboretum reaches into lawns and gardens throughout Minnesota and also into nursery, landscape,

and turf-related businesses. Glance at the Arboretum and you'll see a beautiful botanical garden. Look a little deeper and you'll see a great example of how the University of Minnesota brings value to the entire state. 🌸

### BIG BUGS MEMBER PREVIEW

Friday, May 2, 2-7 p.m.

Be among the very first to view Dave Rogers' Big Bugs at the Arboretum. Here are just a few of the highlights:

- An insider's introduction to the Big Bugs exhibit with free, docent-guided walking tours hourly, 2-7 p.m.
- A reception with Big Bugs artist, Dave Rogers, who will discuss the installation; social hour; hors d'oeuvres; and free gifts. 5:30-7:00 p.m., \$12 per person payable in advance. Space is limited. Call early: 952-443-1440.
- A new children's exhibit at the Learning Center and a free take-home plant. "Sunshine for Dinner, Anyone?" will be open 3:00-7:30 p.m. for families.
- Trumpet Creeper Tram rides
- The TeaRoom and Gift Shop will be open late to serve you.

This preview event is for members only. Big Bugs will open to the public May 3.



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MINNESOTA LANDSCAPE ARBORETUM NEWS is published six times a year by the Minnesota Landscape Arboretum Foundation, 3675 Arboretum Drive, P.O. Box 39, Chanhassen, MN 55317-0039; 952-443-1400. The newsletter is a benefit of membership in the Minnesota Landscape Arboretum. No portion may be reprinted without permission from the Arboretum. The information published in this newsletter is not necessarily endorsed by the University of Minnesota. MARIA KLEIN, Editor

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The Arboretum welcomes your opinions, questions and ideas. Contact Maria Klein at the above address, at maria@arboretum.umn.edu or at 952-443-1444.

*The Arboretum is a unit of the Department of Horticultural Science in the College of Agriculture, Food and Environmental Sciences at the University of Minnesota. The University is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation. To request a copy of this publication in alternate format, please call 952-443-1438.*

*Little-known and underused perennials***LYCHNIS CORONARIA – ROSE CAMPION**

BY LYNN MEYER

*Arboretum Horticulturist*

**L**ychnis coronaria or rose campion is an old-fashioned perennial that sizzles in the summer garden, lending wonderful contrast and electrifying color. This easy-to-grow perennial draws in the viewer's eye like a magnet.

*Lychnis coronaria* is an enjoyable plant right from the start. In spring, its silvery-gray, felt-like, 2-4-inch, spear-shaped leaves emerge from the cool, dark soil. The leaves form a low, circular, basal mound, approximately 12 inches in diameter. The woolly gray leaves are by themselves lovely, and provide contrast to green and burgundy foliage around them.

**But the real action** begins when the 24-36-inch, silvery flower stalks appear in June, topped with hot-pink to magenta flowers, borne in broad, open-branching clusters. Each flower is 1½-inch wide with five petals. When in bloom, plants are about 18-24 inches wide and may produce a dozen or more stalks.

Rose campion is native to northern Africa, southern Europe, and the Middle East. In its homeland it grows in scrubby areas and sun-drenched rocky hill-sides. The generic name, *Lychnis*, is from the Greek word for lamp and refers to the fact that the felt-like leaves of this plant were once used for lamp wicks.

*Lychnis coronaria* grows best in full sun, but tolerates partial shade. It prefers well-drained, slightly dry, sandy soil, but will grow in heavier soils if some organic matter such as manure compost, leaf compost, or peat is added at planting time. It will actually do better and live longer in poor, dry, alkaline soils than in rich, fertile soils. It has no real disease or insect problems, and the erect flower stalks do not require staking. It blooms



*Lychnis coronaria* is an easy-care, vibrant star in the summer garden. A favorite of Duane Otto, it enlivens borders with long-lasting color. Look for it in July alongside the ramp of the Spiegel Entrance Garden. Photo: Duane Otto

for about 6 weeks and makes a nice cut flower. Deadheading will prolong the bloom and can result in flowering for nearly the entire summer.

**Don't get too carried away:** some seeds should be allowed to ripen as *Lychnis coronaria* is really a biennial or a short-lived perennial in nature. What that means is that it will often grow from a seed the first season and produce few if any flowers; bear a great multitude of flowers the second season and possibly a third; and then decline and die.

However, plants readily self-seed. The seedlings pop up here and there in the spring, and can easily be transplanted where you want them. If you have a lot of *Lychnis coronaria* plants, you will probably want to do at least some dead-

heading, however, as the number of resultant seedlings can become more of a burden than a blessing.

It also helps to cut the flower stalks to the ground after flowering and shake the seed heads over the area where you want the seedlings to appear in the spring. In this way you will always maintain a nice stand of rose campion with some young plants, some plants peaking, and some declining. You will have enough peaking that you won't notice the others.

*Lychnis coronaria* looks stunning when planted *en masse* at the front or in the middle of the perennial border. It creates a striking show with its brilliant, magenta flowers and contrasting soft, silvery foliage. Because of its intense flower color, some gardeners find this plant hard to coordinate with others. At the Arboretum, we combine it with yellow- and blue-flowered perennials. *Coreopsis verticillata* 'Moonbeam', *Veronica* 'Sunny Border Blue', and *Salvia x superba* 'May Night' make good companions.

To tone it down a bit, plant rose campion with gray-foliaged plants such as lamb's ears, *Artemisia stelleriana* 'Silver Brocade', or with pale-pink-flowered phlox or roses. White-flowered perennial geranium varieties such as *Geranium sanguineum* 'Album' also work well. *Lychnis coronaria* looks particularly nice planted in front of taller burgundy-foliaged plants such as *Cimicifuga racemosa* 'Astropurpurea' or 'Brunette'. If you just can't get past the wild flower color of this plant but like the overall look and form of *Lychnis*, you may want to consider the cultivar 'Alba', which has white flowers, or 'Angel's Blush' with white flowers with pink centers. ❁

## Daisy with long pedigree is Perennial Plant of 2003

BY SHIRLEY MAH KOOYMAN  
Adult Education Manager

Since 1990 the Perennial Plant Association has selected a unique perennial each year to highlight as its "Perennial Plant of the Year." For 2003 it is a Shasta Daisy selection called *Leucanthemum x superbum* 'Becky' (*Compositae* or *Asteraceae*) because of its wonderful blooming qualities.

In 1890 Luther Burbank created a daisy hybrid that he called "Shasta daisy." The white flowers reminded him of the snow on California's Mount Shasta. *Leucanthemum x superbum* 'Becky' is one of the Shasta daisy selections that came about as a pass-along plant by way of Jimmy and Becky Stewart of Atlanta, Georgia. The Stewarts obtained the Shasta Daisy from their neighbor. The neighbor had received it from her mother, Ida Mae, who owned a successful flo-

ral and nursery business. In the mid-1980s, when Bill Funkhouser was visiting the Stewarts' garden, he became fascinated by the unknown Shasta daisy. He named it 'Becky' in honor of Becky Stewart. This particular Shasta daisy has been shared a lot and is also known as 'Ida Mae' and 'Ryan's Daisy', but 'Becky' has been acknowledged by the horticulture trade as the official name.

*Leucanthemum x superbum* 'Becky' grows 2-4 feet tall and just as wide with single white flowers on very sturdy stems. The 3-inch blooms with yellow centers begin flowering in June and will continue through the summer into September if spent blossoms are removed (deadheading), and they are great as cut flowers. 'Becky' is attractive to butterflies and complements other perennials in the garden. The plant does best in well-drained soil and in full sun, but will tol-



*Leucanthemum x superbum* 'Becky'.  
Photo courtesy Perennial Plant Association

erate partial shade. Shasta daisy 'Becky' will thrive in zone 4-9 and since it is a hybrid, it is best propagated by division, stem cuttings, and tissue culture. ☼

## Cooking and Eating Seasonally

Join Education Department staff and Twin Cities area chefs as we eat our way through the growing season! Classes will take place in the new state-of-the-art Harvest Kitchen in the Marion Andrus Learning Center and very own raised-bed kitchen garden.

The series will highlight seasonal eating from four perspectives, each with its own class. Also, there will be a special evening selected to wine and cheese pairings. Steve Michalski, sommelier from Lord Fletcher's on Lake Minnetonka, has selected 4-5 affordably priced wines for us to taste with each evening's menu.

Come hungry: Tasting in class will be ample for your evening meal. Arrive on time: Hors d'oeuvres will be served promptly at the beginning of each class. All classes are demonstration style and include recipes. Space is limited to 20 per class, and open to participants over 21 years of age.

This new series is offered to **Arboretum members first**, with "early bird" pricing if you register **prior to June 1**: \$50 per class, \$175 for the series of four classes. **After June 1**: Members: \$57/class, \$200/series. Non-members: \$65/class, \$225/series.

For more information or to register, call the education office at 952-443-1422, or email [education@arboretum.umn.edu](mailto:education@arboretum.umn.edu).

### MIXED SEAFOOD GRILL w/ FRESH HERBS Wednesday, July 16, 6:30-8:30 p.m.

Preparation techniques to enhance and expand your outdoor seafood repertoire. An expert from **Coastal Seafoods** will show how herbs make a difference.

### FARMERS MARKET BOUNTY Wednesday, August 20, 6:30-8:30 p.m.

**Jenny Breen** will demonstrate new ways to make grilled vegetables exciting. Organic beef burgers compliment veggies and salads. Jenny Breen owns Good Life Catering.

### TRADITIONAL ITALIAN SUMMER GRILL Tuesday, September 16, 6:30-8:30 p.m.

Executive Chef **Michael Rostance** from Broder's Southside Pasta Bar will show us how the Italians do it. His menu features 5 courses, including a main course of grilled mussels with pine needles.

### GARDEN HARVEST SOUPS Tuesday, October 14, 6:30-8:30 p.m.

The Arboretum's own **Deborah Fox** will share her favorite four fall soup recipes including golden pear with butternut squash and a Tuscan specialty she learned while attending a cooking-school tour of Italy.

### BONUS WINE AND CHEESE CLASS October 23, Thursday, 6:30-9:00 p.m.

Top off the series with Steve Michalski's class on wine, cheese, and art. Taste Steve's wine-cheese combos and learn where local experts shop for wine and cheese. \$50 per person, does not include dinner.

## OPPOSITES ARE ATTRACTIVE IN 2003 ANNUALS DISPLAY

BY DUANE OTTO

*Landscape Gardener*

The 2003 annual gardens will feature the boldly complementary colors of yellow and violet, punctuated with the “neighboring” color, orange, which will add drama and richness. A special focus of this display will be the striking foliage in gold and gold-variegated and stunning dark-maroon and black.

## PLANTS OF INTEREST

*Hibiscus* ‘Red Shield’. An upright-growing plant, with attractive, shiny, dark-red, maple-shaped leaves. Grows to 4-5 feet.

*Melampodium* ‘Lemon Delight’. A showy, heat-tolerant, sun-loving annual with soft-yellow, star-shaped blooms. Grows to 8-10 feet.

*Canna* ‘Tropicanna Gold’. A new canna with dramatic, yellow-and-green-striped foliage that sets off stunning orange flowers.

*Canna* ‘Tropicanna’. This canna has eye-catching leaves with stripes of burgundy red, yellow, and deep green. The plant can reach 6 feet and sports large, luscious orange flowers.

*Pennisetum* ‘Purple Majesty’. This 2003 All-America Selection is an ornamental millet, with gorgeous deep-purple, corn-like foliage. Plants grow to 40-60 inches and bear cattail-like plumes 12-14 inches long.

*Tithonia* ‘Fiesta de Sol’. This is a 2000 AAS winner, the first dwarf Mexican sunflower with heat and deer resistance. It produces 2-3-inch orange flowers and grows to a compact 28-30 inches in full sun.

*Asclepias curassavica* ‘Silky Gold’. Erect, bushy plants grow to 3 feet tall and a foot wide and in full sun bear butterfly-attracting, golden-yellow flowers. You can also look for *Impatiens* ‘Tango’,

*Amaranthus* ‘Giant Copperhead’, *Alternanthera* ‘Purple Knight’ (Joseph’s coat), and *Setcreasea pallida* ‘Purple Heart’.

As you approach the Snyder Building, the sidewalk bed will feature a mixture of *Coreopsis* ‘Early Sunrise’, *Pelargonium* ‘Orange Appeal’ (geranium), and *Verbena rigida*. The flagpole bed plantings will include *Pennisetum* ‘Burgundy Giant’ (purple fountain grass), *Lantana* ‘Mrs. Huff’, *Zinnia* ‘Star Orange’, and *Solenstemon* ‘The Line’ (coleus). Be sure to check out the container and moss-basket combinations on the Snyder Building terraces and other annual beds throughout the grounds.

The 2003 gardens showcase over 260 varieties totaling 20,000+ individual plants that will reach peak color in late

July and August. Remember that spring flowers – bulbs, trees, perennials – begin in late March or early April, so visit often to see the extravaganza evolve! ❀



2002's pink-and-blue annuals. Photo: Duane Otto

❀ ❀ ❀ ❀ ❀ A GIFT FOR ALL SEASONS ❀ ❀ ❀ ❀ ❀

To give a gift of Arboretum membership to someone special, mail in the form below or call Member Services (952-443-1440). The recipient of your gift will receive a new-member information packet, Arboretum member card(s), and a gift card with your personalized message.

## FOR

Mr / Mrs / Ms \_\_\_\_\_

Please include both names if ordering a Dual or Dual Plus membership.

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone \_\_\_\_\_ E-mail \_\_\_\_\_

## FROM

Your Name \_\_\_\_\_ Member # \_\_\_\_\_

Address \_\_\_\_\_ Phone \_\_\_\_\_

MEMBERSHIP CATEGORY  Single \$35  Single+1 \$45  Dual \$55  Dual Plus \$70

## METHOD OF PAYMENT

Check (payable to MLA) \$ \_\_\_\_\_ Credit Card # \_\_\_\_\_

Exp date \_\_\_\_\_ Signature \_\_\_\_\_

SEND GIFT  To me to present in person  To recipient on my behalf, gift card to read:

\_\_\_\_\_

\_\_\_\_\_

## ARBORETUM MEMBERS BELONG TO A FAMILY OF AMERICAN GARDENS

BY LESLIE COONEY

### *Member Services Manager*

**P**lanning a trip this summer? Chances are you'll find yourself in a city with a beautiful botanic garden eager to open its gates to you – free of charge – when you present your Minnesota Landscape Arboretum member card. As a participating member in the American Horticultural Society's Reciprocal Gardens Program, we're pleased to be able to extend free admission to our members at more than 150 other gardens, conservatories, and arboreta in 42 U.S. states, four Canadian provinces, and the Virgin Islands. We urge you to take advantage of this valuable member benefit.

Contact our office at 952-443-1440 for a printed brochure or visit our website ([www.arboretum.umn.edu](http://www.arboretum.umn.edu)) for a link to the AHS website and current list of participating gardens.

**I asked MLA staff** about their experiences at some of these gardens. Here are their recommendations and comments.

**The Chicago Botanic Garden** in Glencoe, Illinois is a "must see" for anyone visiting the Chicago area. During the Spring Bloom Festival visitors can enjoy thousands of bulbs, pansies, flowering shrubs and trees in beautiful settings. The gardens are maintained to a very high standard and you are constantly surprised as you walk around the curving paths and encounter one spectacular garden after another. In addition, the home fruit garden gives visitors great ideas on incorporating fruit trees, berry bushes or grapevines into their home landscapes. The home demonstration garden has everything from a garden shop to an outdoor kitchen where visitors can learn how to prepare their fresh vegetables.

**When I used my membership card** at the Chicago Botanic Garden to get free



*A sampling of the orchids at Marie Selby Botanical Gardens in Sarasota, Florida. Only blooming orchids are displayed, but these are enough to astonish and delight! Photo: Maria Klein*

parking and admission, it felt great. I never opened my wallet. The man at the gate, whom I of course had never met before, treated me like an old friend. He waved us through saying, "Have a spectacular day!" Although I live far away from many of these gardens around the country, I feel as though I am part of a family and no matter where or when I visit, I will be welcomed with open arms.

**I visited Fairchild Tropical Gardens** in Miami in February. I was impressed by the variety of palm cultivars, and the vast array of tropical fauna that wandered by. They've also got a nice tram tour and what seemed to be an extensive system of hiking trails. We're tempted to go back for the Mango Festival in July.

**My husband and I enjoyed a visit** to Marie Selby Botanical Gardens on Sarasota Bay in Florida. I used my membership card and both of us got in free – we saved \$20! It's a fairly small garden, with a beautiful indoor orchid collection and lots of interesting trees we don't see here in Minnesota.

**Located in the middle of St. Louis** on a relatively small piece of land is a real

gem – the Missouri Botanic Garden. Every bit of the 60-acre site is heavily planted and each garden seems better than the one you just visited. From the large Japanese Garden with a ginkgo grove to the Kemper Center for Home Gardening, it is easy to spend a full day enjoying the beautiful gardens, wonderful plant collections, the many ponds, sculptures and water features.

**I visited the Harry P. Leu Gardens** in Orlando with my Arboretum membership card and had a very positive reception, almost as if I were royalty!

**I used my Arboretum member card** for admission to the Lady Bird Johnson Wildflower Center near Austin two years ago. It's not a large place, but the architecture of the Visitor Gallery and the way the gardens are arranged really reflect its focus on preserving the natural and cultural heritage of that area of Texas. It was lovely, and seeing all the wildflowers blooming while it was still the middle of Minnesota's winter was wonderful. When I showed my card at the gate, the attendant said, "Oh, the Minnesota Landscape Arboretum – it's a legend here." ❀

## Advice from the Yard & Garden Clinic

### VIGILANCE HELPS MANAGE PESKY CRITTERS ON FLOWERS AND TREES

DEB BROWN

*Extension Horticulturist*

JANNA BECKERMAN

*Extension Plant Pathologist*

JEFF HAHN

*Extension Entomologist*

#### ANOTHER CHOICE IN GARDEN AND LANDSCAPE TIMBERS

Landscape timbers are no longer manufactured using CCA (chromated copper arsenate) as a preservative. If you are among the people looking for an alternative to CCA-treated timbers for your landscape or garden, there's something new on the market to consider: pressure-treated timbers that make use of a copper-based preservative and organic fungicide to prevent normal deterioration.

Developed in Europe, this new preservative method is now sold in the U.S. under the brand name, "Wolmanized Natural Select" wood. Timbers look very similar to most CCA-treated timbers. They should last as long and they're entirely safe to use near edible plants.

#### YARD & GARDEN CLINIC FAQs

**Q: Last year I grew hollyhocks for the first time, but by summer they were covered in orange spots. Help!**

**A:** Your plants had hollyhock rust, a fungal disease caused by *Puccinia malvacearum*, one of the most common diseases affecting hollyhocks worldwide. Symptoms begin as numerous yellow spots on the leaf surfaces. Turning the leaf over reveals orange-brown pustules — characteristic signs of rust infection. Pustules may also form on the upper side of the leaves, on stems, and on green flower bracts. Unlike rusts that require alternate hosts, this rust completes its entire life cycle on the hollyhock.

To reduce rust problems, consider planting the more rust-resistant cultivars,

such as *Alcea ficifolia* 'Antwerp Mixed Colors' (Thompson and Morgan Seeds) or Russian hollyhock (*Alcea rugosa*).

Thin them to avoid crowding and allow their foliage to dry readily after rainfall or sprinkling. Infection is greatest during wet weather or when there are prolonged periods of dew. Water plants early in the day to allow them to dry before evening. When plants are dry, pick off and destroy any infected plant parts the minute you see evidence of rust.

The rust fungus overwinters in infected plant debris. In the fall, cut back your hollyhock stalks to ground level, then collect all infected plant debris and dispose of it. Eradicate any cheese-weed (*Malvus rotundifolia*) in the vicinity, as it can also harbor the rust fungus.

Several fungicides will help control hollyhock rust, including those containing the active ingredients chlorothalonil, mancozeb, triadimefon, or sulfur. Begin fungicide treatments in early spring when the first leaves are expanding. Sulfur may damage leaves if air temperature is warmer than 85 degrees F within 24 hours of spray application.

**Q: What are the insects that make webs in crabapples in spring? What's the best way to control them?**

**A:** The insects are eastern tent caterpillars. They form webs in the forks of fruit trees like apple, cherry, plum, choke-cherry, and ornamental crabapple, and on other hardwood trees.

After hatching in late April or early May, these caterpillars feed for about four weeks. Luckily, this does not seriously damage healthy mature trees, even if it completely defoliates them. Vigorously growing trees will leaf out again several weeks after caterpillars finish feeding. Remove their webs with a broom or a stick, then crush or burn the webs and caterpillars. Wait for a cool or

rainy day to catch all the caterpillars inside the webbing.

If you choose to protect your trees, spray the foliage with a registered insecticide such as *Bacillus thuringiensis*, permethrin, or carbaryl. This must be applied when most caterpillars are no more than one inch long. Once they're larger, spraying will not help — they're almost done feeding. If the trees are blooming, use *Bacillus thuringiensis*, a type of bacterial insecticide that will not harm pollinating bees, humans, or other animals.

#### SOME INSECT TIPS:

- Leafminer damage to birch trees is primarily aesthetic. However, if you choose to protect your tree, have it sprayed when you begin to see the "mines" caused by their feeding, about 10 days after the tree begins to leaf out.
- Check closely for European pine sawflies on pines. The best time to treat them is usually in late May when they're still less than 1/2-inch long.
- If you find small brown spots on your flowering perennials, it's likely from fourlined plant bug feeding. This mainly affects the plants' appearance. If you must protect your plants, treat them in late May or early June before damage becomes extensive. 🌸

*This column is a benefit to Arboretum members. For all your gardening questions, call the Yard & Garden Line (see page 16 for phone number and hours).*

#### YARD & GARDEN CLINIC HOURS CUT

Drastic budget cuts at the University of Minnesota Extension Service have translated to withdrawal of funding for all support staff at the Yard & Garden Clinic. We plan to continue answering phones throughout the growing season, but only from 9 to 12 weekdays, based on anticipated revenues from phone calls and samples. As always, there is no charge when you call the Member Privilege Number, 612-624-4776.

## THE TRIBUTE OF A TREE HAS ALL THE RIGHT STUFF

When CEO Lynn “Andrea” Ritchie retired from her post at Northwestern Travel Management after 25 years with the company, her employees wanted to pay her an extra special tribute. Colleague Terri Kragness knew that Lynn loved to garden (did the 200+ hosta on a spreadsheet give it away?) and had been an off-and-on Arboretum member for years. So with some kind of Arboretum-related gift in mind, she contacted Terri Gustavson in the Arboretum’s development department to discuss honor gift possibilities. Together they decided upon a “tribute tree.”

The Arboretum provided Terri Kragness with an engraved nameplate and announcement letter, which were presented to Lynn at her retirement party last spring. A few weeks later, Lynn joined Terri Gustavson on a golf-cart tour of the Arboretum to select her tree. She chose a young maple in, naturally, the Hosta Glade.

“There’s nothing they could have done that I would have liked better. It



Lynn Ritchie, about to attach a label to “her” tree in the Hosta Glade. Photo: Maria Klein

means so much because [the gift of the tree] came from people who knew me so well. I can visit and it will symbolize my career and colleagues,” said Lynn. “Now I’ll probably be a member forever!”

### Celebrate a Special Occasion –

With a unique gift available only at the Arboretum: Your very own Tribute Tree, bearing your name, or the name of someone you wish to honor, and a special message displayed on a tree at the Arboretum. You can create a Tribute Tree for as little as \$1,000. Select the tree yourself or gift-wrap an announcement letter inviting the recipient for a private golf-cart tour of the Arboretum to choose a tree. An engraved nameplate will hang from the lowest branch. For details on this and other tributes and memorials, please call Terri Gustavson at 952-443-1432.

I would like someone to contact me to discuss a tribute gift.

Name(s) \_\_\_\_\_

Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Telephone \_\_\_\_\_

Day

Evening

### Campaign Update

You can still participate in Cultivating Common Ground, the Arboretum’s Comprehensive Campaign, which will end on June 30. As this newsletter goes to press, we have raised over \$59 million since the Campaign began in 1996. The impact of this landmark effort has already been significant, including new and refurbished gardens, an expanded Learning Center, research initiatives and, soon, a new Visitor Center. Approximately 22% of the gifts have been designated for endowment and other gifts have been designated for land acquisition and program operations.

We look forward to recognizing donors who contribute \$10,000 or more cumulatively during the Campaign on the **Wall of Honor** in the new Visitor Center. If you have a question about your cumulative gift total since the Campaign began, or would like to make a special gift to the Campaign, please call Sallie Quammen, Campaign Coordinator, at 952-443-1418 or email [sallie@arboretum.umn.edu](mailto:sallie@arboretum.umn.edu).

### Summer continued from page 1

horizon. As I wrote in the last newsletter, there are budget challenges of substantial proportions: state cuts, the economic downturn, and the vagaries of weather. To respond to these problems we will reduce our budget, mostly in non-personnel areas, and reorganize to gain efficiency and improve service to our guests, members, and donors. We will explore new sources of income and redirect income to priority areas.

Although we might need extra help from you this year, we trust that you will enjoy and learn from the beautiful gardens, model landscapes, collections, and native areas as much as ever. We look forward to greeting you all during this very special season. ☀

Information about events and programs for May and June may be found on pp. 10-15.

# 19th Annual



Minnesota Landscape  
Arboretum Auxiliary

## Summer Garden Tour

July 13, 15 & 16, 2003

### Summer Garden Tour 2003 Registration Form

#### Sunday Brunch Tour, July 13

Times for **Sunday Only** 9:00, 9:45, 10:30  
11:15 or 12:00 Noon

1<sup>st</sup> time choice \_\_\_\_\_

2<sup>nd</sup> time choice \_\_\_\_\_

3<sup>rd</sup> time choice \_\_\_\_\_

~~~~~  
#Tickets @ \$55 each = \_\_\_\_\_

#### Tour: 1<sup>st</sup> Choice

Tues., July 15, Time: \_\_\_\_\_

Wed., July 16, Time: \_\_\_\_\_

#### Tour: 2<sup>nd</sup> Choice

Tues., July 15, Time: \_\_\_\_\_

Wed., July 16, Time: \_\_\_\_\_

#### Tour: 3<sup>rd</sup> Choice

Tues., July 15, Time: \_\_\_\_\_

Wed., July 16, Time: \_\_\_\_\_

Total number in party \_\_\_\_\_

Amount enclosed \$ \_\_\_\_\_

Please list name and address on reverse side

**No refunds after June 30. Sorry no telephone reservations.**  
**Payment by check only. No credit cards.**

found in southern Canada and throughout the lower 48 states.

Centered in its beautifully symmetrical web is an area of thicker, whiter material. Its purpose has been a bone of contention, but theories are as follows:

1. It helps stabilize the web.
2. It's designed for birds to see so they won't fly through and destroy the web.
3. It attracts flying insects.

Whichever theory is correct, and it may be that several or all are accurate, this part of the web is referred to as the sta-

often reveals a nearby male in its own web, waiting for a mating opportunity.

In both sexes, the shiny egg-shaped abdomen, or rear body segment, has bright yellow or orange markings on a black background. The forward part of the body, the cephalothorax, is covered with short silvery hairs.

When reproduction occurs, the female produces an egg sac that can be up to an inch in diameter and can contain between 300 and 1400 eggs. She

undoubtedly die soon.

I can understand the sadness that young people feel from reading or seeing *Charlotte's Web* as I watch it unfold in real life. I'll miss my argiope when she goes, and I wish her offspring all the best. I look forward to seeing them emerge and repeat the ongoing cycle that Nature dictates. ❀

*Miles Klein is a retired optician living in Frisco, Texas, where he volunteers actively and observes the workings of Nature.*

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*19th Annual*



*Minnesota Landscape  
Arboretum Auxiliary*

*Summer*

*Garden*

*Tour*

*July 13, 15 & 16, 2003*

*Summer's Delight*

**Four Private Minnetonka Areas  
Gardens  
Tour Selections:**

**Sunday Brunch Tours  
~ July 13 ~**

**\$55 per person-includes Brunch**  
(\$40 is a tax-deductible contribution to the  
Arboretum Auxiliary)

**Tuesday & Wednesday  
~ July 15 & 16 ~**

**\$45 per person with Lunch**  
(\$30 is a tax-deductible contribution to the  
Arboretum Auxiliary)

**OR**

**\$30 per person without Lunch\***  
(\$25 is a tax-deductible contribution to the  
Arboretum Auxiliary)

**\*Available only on certain tours  
See departure times**

*Special thanks to our generous sponsor*



*Champagne Brunch  
On the Terrace*

*Sunday, July 13*

*\$55 per person*

*(\$40 is a tax deductible contribution to the  
Arboretum Auxiliary)*

**9:00 tour eats at Noon**  
**9:45 tour eats at 12:45**  
**10:30 tour eats at 9:30**  
**11:15 tour eats at 10:15**  
**12:00 tour eats at 11:00**

*Tickets are limited for the enjoyment of our guests.*

All three days will offer air conditioned  
Coaches and tour guides. Dine privately  
On the Morgan Terrace of the Snyder  
Building to the accompaniment of  
Harp music

**ARBORETUM DEPARTURE TIMES**

**Tuesday, July 15 & Wednesday, July 16**

|                |                       |                     |
|----------------|-----------------------|---------------------|
| <b>8:00</b>    | <b>Lunch Optional</b> | <b>\$30 or \$45</b> |
| <b>8:30</b>    | <b>Lunch @ 11:30</b>  | <b>\$45</b>         |
| <b>9:00</b>    | <b>Lunch @ 12:00</b>  | <b>\$45</b>         |
| <b>9:30</b>    | <b>Lunch @ 12:30</b>  | <b>\$45</b>         |
| <b>10:00</b>   | <b>Lunch @ 1:00</b>   | <b>\$45</b>         |
| <b>10:30</b>   | <b>Lunch @ 1:30</b>   | <b>\$45</b>         |
| <b>11:00</b>   | <b>No Lunch</b>       |                     |
| <b>11:30**</b> | <b>Lunch Optional</b> | <b>\$30 or \$45</b> |
| <b>12:00**</b> | <b>Lunch Optional</b> | <b>\$30 or \$45</b> |
| <b>12:30**</b> | <b>Lunch Optional</b> | <b>\$30 or \$45</b> |

**\*\* These groups will have lunch 45 min. - 1 hour  
before their tours.**

**Summer Garden Tour 2003**  
**Registration Form**

**Sunday Brunch Tour, July 13**

Times for **Sunday Only** 9:00, 9:45, 10:30  
11:15 or 12:00 Noon

1<sup>st</sup> time choice \_\_\_\_\_

2<sup>nd</sup> time choice \_\_\_\_\_

3<sup>rd</sup> time choice \_\_\_\_\_

\_\_\_\_\_ #Tickets @ \$55 each = \_\_\_\_\_

~~~~~  
**Tour: 1<sup>st</sup> Choice**

Tues., July 15, Time: \_\_\_\_\_

Wed/, July 16, Time: \_\_\_\_\_

**Tour: 2<sup>nd</sup> Choice**

Tues., July 15, Time: \_\_\_\_\_

Wed., July 16, Time: \_\_\_\_\_

**Tour: 3<sup>rd</sup> Choice**

Tues., July 15, Time: \_\_\_\_\_

Wed., July 16, Time: \_\_\_\_\_

Total number in party \_\_\_\_\_

Amount enclosed \$ \_\_\_\_\_

Please list name and address on reverse side

**No refunds after June 30. Sorry no telephone reservations.**  
**Payment by check only. No credit cards.**

## REGISTRATION FORM CONTINUED

Make checks payable to:  
ARBORETUM AUXILIARY

Mail registration and check to:  
Marge Noble  
20585 Minnetonka Boulevard  
Excelsior, MN 55331

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

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

Phone : \_\_\_\_\_ ( day) \_\_\_\_\_ (eve)

Note: If you plan to be out of town, leave an alternate  
Phone number \_\_\_\_\_

Please list all the names in your party:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

If we cannot attend but would like to make a tax deductible  
contribution to the Arboretum Auxiliary \$ \_\_\_\_\_

No children under 12 years allowed.

## IMPORTANT INFORMATION

\*Reservations are limited and will be filled by postmark date.

\*We cannot hold reservations or spaces on the bus. If you wish to be seated as a group, payment for all guests named in your party must accompany the registration form.

\***Tickets** will be sent to only the first name on the registration form. Each guest must show their ticket to board the tour bus. Absolutely no exceptions!

\*If you do not receive tickets within 3 weeks, call the Auxiliary voice mail: 952-443-1400 Ext #7052.

\*The tours will take place regardless of weather.

\*Buses will depart **ON TIME** from the front of the Snyder mail Arboretum building)

**\*We are sorry but our gardens and coaches cannot accommodate those with special needs, including wheelchairs, walkers, etc.**

\*Each tour lasts approximately 3 hours. Please allow and an additional 45 minutes for lunch

\*Gardens can be slippery and steep. Please wear comfortable shoes.

\*No separate admission to the Arb is required. No discounts to Arb members.

**\*Traffic can be heavy with road construction and parking tight, so please arrive 30 min. before your departure time.**

\*For recorded directions to the Arb, call 952-443-1400.

## WELCOME THIS UNINVITED GUEST INTO YOUR GARDEN

BY MILES KLEIN

**"B**uild it and they will come." This can refer to something other than a ballfield, as it did in Kevin Costner's Field of Dreams.

"It" is a garden, be it composed of flowers, herbs, vegetables or what have you. "They" refers to visitors who may come to admire fruits of your green thumb. Along with people, birds and assorted critters, there's somebody else who may visit your garden...someone who'll be quite comfortable there...someone who'll build a home there and find plenty to eat...someone who may eat its home every night and rebuild it in the same place every day. Just who is this mystery guest, this builder, this eater of homes, this garden resident? Well, it's classified thus:

**Kingdom:** *Animalia*

**Phylum:** *Arthropoda*

**Class:** *Arachnida*

**Order:** *Araneae*

**Family:** *Araneidae*

**Genus:** *Argiope*

But this visitor is more commonly known as the garden spider, *Argiope aurantia*. Renowned for its web, it's also called the golden orb weaver, the writing spider, the banana spider, and the black-and-yellow argiope. Pronounced ar-JY-o-pe, this eight-legged beauty is found in southern Canada and throughout the lower 48 states.

Centered in its beautifully symmetrical web is an area of thicker, whiter material. Its purpose has been a bone of contention, but theories are as follows:

1. It helps stabilize the web.
2. It's designed for birds to see so they won't fly through and destroy the web.
3. It attracts flying insects.

Whichever theory is correct, and it may be that several or all are accurate, this part of the web is referred to as the sta-



*Argiope aurantia*. Photo: Dr. Jeff Hahn, University of Minnesota Extension entomologist

bilimenta, the name being derived from the stabilization theory. *Argiope* waits for its next meal in the center of the web, always facing down, but is quick to react to prey caught above it.

There is sexual dimorphism in size: the one-inch female is usually 3–5 times larger than the male. A careful examination of the area around the female's web often reveals a nearby male in its own web, waiting for a mating opportunity.

In both sexes, the shiny egg-shaped abdomen, or rear body segment, has bright yellow or orange markings on a black background. The forward part of the body, the cephalothorax, is covered with short silvery hairs.

When reproduction occurs, the female produces an egg sac that can be up to an inch in diameter and can contain between 300 and 1400 eggs. She

attaches the sac near her usual central-web resting place, then dies. The eggs hatch in the fall, but the spiderlings don't leave their papery sac home until spring.

*Argiope* appears threatening because of its size, but its venom is not dangerous to humans. A bite causes little more than mild itching and local swelling.

You should consider these eight-legged wonders welcome guests in your yard. They'll do their share in helping to dispose of flies and mosquitoes, and their shimmering webs, catching the sunlight, add a natural beauty to your garden. Feel fortunate to have this spider in residence.

*The argiope that I've been* watching for the past few months – the one that inspired me to write this article – has recently produced a large egg sac. One night it wasn't there, the next morning, it was.

About the size of a large grape and with the color and consistency of a brown paper bag, it hangs close to the window from which I observe the spider. Occasionally she caresses it with gentle, stroking motions. I cannot help but feel she is a good mother. Having laid her eggs and built the egg sac, she is considerably smaller now and will undoubtedly die soon.

I can understand the sadness that young people feel from reading or seeing *Charlotte's Web* as I watch it unfold in real life. I'll miss my argiope when she goes, and I wish her offspring all the best. I look forward to seeing them emerge and repeat the ongoing cycle that Nature dictates. ☸

*Miles Klein is a retired optician living in Frisco, Texas, where he volunteers actively and observes the workings of Nature.*

## Arboretum Auxiliary

### Quarterly Meeting

Wednesday, May 7

Business meeting, 10 a.m.

Social hour and lunch, 12 noon

Arboretum members are invited to join the Auxiliary and participate in the many interesting and creative fundraising activities.

Featured at this month's luncheon is **Florence Scholljegerdes** of Nature's Beauty, who will give a presentation on wildflowers. For more information, please call Mary Young at 952-471-7535.

## Family Programs

*Arboretum programs and events are open to the public and free with paid admission unless otherwise noted. Big Bugs exhibit and family activity guides will be available at the Information Tent. Look for the Family Programs sign to direct you.*

**BB** *Featuring Big Bugs*

## MAY

PRESENTED BY MINNESOTA'S MASTER GARDENERS

### What's the Buzz? **BB**

Sat. & Sun., May 3 & 4, 11 a.m.-3 p.m.

Featured insect: Bees. The Minnesota Bee-keeping Association will bring live hives and teach us about pollination and how to keep track of the buzzing in your backyard. Create your own bug journal.

### What's Bugging You? **BB**

Sat. & Sun., May 10 & 11, 11 a.m.-3 p.m.

Featured insects: Spider, w/ web, and Assassin Bug. Identify bugs and learn about their special role on earth. On Saturday, create a spider rock. On Sunday, learn how to tell one family of bugs from another; make a hat for your mom. Puppet stories at the Ladybug.

### Is Your Dragon Flying? **BB**

Sunday, May 18, 11 a.m.-3 p.m.

Featured insect: Dragonflies. How do bugs fit into human culture around the world? Learn about dragonflies and how other insects got

their names. Storytelling will include fables, fairytales, and facts. Make a take-home stamp book about "backyard" insects. Face painting in the Home Demo Gardens.

### Ants in Your Pants? **BB**

Sat. & Sun., May 24 & 25, 11 a.m.-3 p.m.

Featured insects: Ants. What do people and ants have in common? Come and find out! Create a bug jar and learn from experts how to create your own ant farm. Bug collecting tour 1-3 p.m. Caricatures on site.

### Is Your Butter Flying? **BB**

Saturday, May 31, 11 a.m.-3 p.m.

Featured insect: Butterfly. Study the types of butterflies, how they live, and how to attract them to your own garden. Make a paper butterfly. Storytelling at the Ladybug.

## JUNE

### Bugs and Plants **BB** Investigation Station

Saturdays & Sundays

June 7-August 23, 12-3 p.m.

Drop by and discover the wonder and beauty of insects and plants at this activity-packed garden site. Home Demonstration Gardens.

#### JUNE SCHEDULE

**"HEY HONEY, HERE COMES A BEE"**

Saturdays & Sundays, June 7, 8, 14, 15

Hunt for flowers, make a pipe cleaner bee to pollinate Arboretum flowers, learn how bees keep their hairs neat and tidy.

#### ATTRACTING BUTTERFLIES

Saturdays & Sundays, June 21, 22, 28, 29

Learn how butterflies sip with their feet and warm the blood in their wings, which flowers they like most. Take home a butterfly plant.

### Garden Fun For Kids

Saturdays, June 7-August 23, 12-3 p.m.

Activities abound at the Marion Andrus Learning Center this summer for active learners of all ages. Families may enjoy hands-on experiments or cooking demonstrations or planting techniques throughout the summer.

#### JUNE SCHEDULE

### NUTTY EXPERIMENTS YOU CAN PLANT

June 7, 14, 21

Peanut butter and jelly sandwich science. The "Lunchbox Experiments" use peanuts and grapevine cuttings to grow at home.

### KEEP ON THE GRASS!

June 28

A proven family favorite. Kids can create whimsical 2-D sculptures on our lawn. Families may use branches, stems, leaves or flowers to outline children's bodies in the grass.

### Buggy Brigade

Alternate Tuesday mornings, 10-11 a.m.

For tots, preschoolers, and an adult. Drop-in and stroll-er your way on a tour made for your tot. We'll touch, smell and listen to the world around us. Dress for the outdoors and bring a stroller and small blanket. Meet at the Big Bugs Information Tent. Register that morning or call 952-443-1422 to pre-register. Fee: \$4 member/\$6 non-member.

#### JUNE SCHEDULE

June 10 *Peek-A-Boo Sprouts*

June 24 *Bzzz Among the Flowers* **BB**

### Pea Pods Preschool Storytime

#### PLANT A PACK OF PEPPERS

Tuesday, June 17, 9:30-11:00 a.m.

For 3-5 year olds and an adult. Drop-in for plant stories, hikes, and garden explorations that bring kids and adults closer. Together you'll discover the wonder and beauty of plants and nature. Meet at the Marion Andrus Learning Center.

### Midsummer Night's Eve **BB** Flower Festival

Thursday, June 19, 5-8 p.m.

Celebrate the upcoming Summer Solstice with edible flowers, fairy houses, games, planting, and more. Discover bugs that go bump in the night and learn how to call a glow bug out from hiding. Marion Andrus Learning Center. Free admission on Thursdays after 4:30 p.m.

## Arboretum Events

### MAY

#### Hosta Sale

Saturday, May 3, 12–3 p.m.

Fill those shady spots with hosta from the Arboretum's Hosta Glade. Sale hosted by the Arboretum and the Minnesota Hosta Society. Hosta are sold bare-root. Gate fee applies.

#### Arboretum Bud Break 5K Run/Walk

Sunday, May 4, 7–11 a.m.

Race begins at 9 a.m.

Join us for our 6th annual 5K run/walk through the scenic spring landscape of the Arboretum. Open to all ages and skill levels. Pre-registration must be received **by Friday, April 25** to qualify for \$15 race fee. Includes Arboretum admission and a t-shirt. Prizes in various age groups and for overall male and female winner. Limited to first 500 applicants! Event day registration is \$20. For information or registration: 952-443-1454.

#### Experience the Wild Side: Natural Area Walks

Sundays, 1:00 p.m. start

Get off the beaten track and discover the Arboretum's hidden corners. Led by staff and docents, these walks explore three natural areas as they change through the seasons. Learn about the plants and natural history of Minnesota's prairies, woodlands, bogs, and sedge meadows.

**Dayton Wildflower Garden & Bog** – meet at the Ordway Parking Lot. The Wildflower Garden's paved walkway is accessible for all abilities. The woodchip pathway of the Bog Walk may limit accessibility.

**Spring Peeper Meadow** – meet at SPM Parking Lot: South on Hwy. 41 from Hwy. 5, right on 82nd St., right into parking lot. Allow 5 minutes travel time from the Arboretum. Woodchip pathway may limit accessibility.

**Bennett/Johnson Prairie** – meet in the Prairie Parking Lot: proceed along Three-Mile Drive to the parking lot. Mowed pathway may limit accessibility.

### MAY SCHEDULE

May 4 Wildflower Garden

May 18 Wildflower Garden

#### Auxiliary Spring Plant Sale

Saturday May 10, 9 a.m.–3 p.m.

Sunday, May 11, 10 a.m.–2 p.m.

Don't miss the Arboretum Auxiliary's famous annual plant sale featuring a wide selection of plants, hard-to-find varieties, and University of Minnesota introductions. Proceeds benefit Arboretum operations. Gate fee applies.

Plant lists for the sale are available at the Snyder Building gatehouse and lobby desk for \$1 per copy or by mail. To order by mail, please send \$2 for each list requested to:

PLANT LIST  
1605 Fairway Lane  
Minneapolis, MN 55426

You may also view the 2003 plant list on the Arboretum's website. Go to the May calendar and click on the plant sale notice.

#### Daffodil Society Show

Saturday, May 10, 12 noon–5:30 p.m.

Sunday, May 11, 10 a.m.–4:30 p.m.

This exhibition showcases more than 500 daffodil blooms and over 200 different varieties submitted by novice and experienced growers. Gardeners of all ages and abilities may enter their own home-grown daffodils.

### BIG BUGS **BB**

#### GRAND OPENING

Saturday, May 17, 8 a.m.–sunset

A grand celebration of Big Bugs, with entertainment, a bug zoo, children's activities, self-guided tours of Big Bugs, and a live broadcast of the KARE 11 Saturday Morning Show, with Belinda Jensen and Frank Vascellaro.

### JUNE

#### Buggy in the Garden **BB**

Thursday evenings, 6–8 p.m.

Live music, Family Adventure Treks (see next column), and the beauty of the summer gardens – the setting for Dave Rogers' Big Bugs

Exhibition. Activities change each week. Gate fee waived every Thursday after 4:30 p.m.

### JUNE SCHEDULE

- June 5 *The Middle Spunk Creek Boys*, Minnesota Music Award winners  
June 12 *Dan Newton*, Odes to "la Vie Musette"  
June 19 *Tonya Woodland*, Folk musician  
June 26 *Michael Monroe*, Singer/song-writer

### FAMILY ADVENTURE TREKS **BB**

6:30–7:00 p.m.

Enjoy a different activity each week featuring the Big Bugs and the Arboretum gardens. Admission is free every Thursday after 4:30 p.m. Meet at the Big Bugs Information Tent.

### JUNE SCHEDULE

- June 5 *Butterfly Wands*  
June 12 *Spiderweb Weaving 101*  
June 19 *Midsummer Night's Eve Flower Festival*  
June 26 *Ladybug Search and Release*

#### Experience the Wild Side: Natural Area Walks

Sundays, 1:00 p.m. start

Get off the beaten track and discover the Arboretum's hidden corners. Learn about the plants and natural history of prairies, woodlands, bogs, and sedge meadows. (See May listing for directions to program sites.)

### JUNE SCHEDULE

- June 1 *Bennett/Johnson Prairie*  
June 15 *Bog or Wildflower Garden*  
June 29 *Spring Peeper Meadow*

#### American Peony Society Show

Saturday, June 14, 1–6 p.m.

Sunday, June 15, 8 a.m.–12 noon

Celebrate the 100th birthday of the American Peony Society with a huge display of "old" and new peonies; peony-arranging classes; peony-growing seminars; and a peony sale. Anyone may enter peonies in the exhibit. Call 612-481-4381 or 952-470-4319.

Events continued on page 12

## Dad's Bug-Out Day **BB**

Sunday, June 15, 1–3 p.m.

Enjoy a day in the gardens with Dad. Picnic with the Ladybug, test your casting with a fly-fishing contest and demonstration at the Praying Mantis, settle back with the Spider while a docent talks about webs and why they're cool, chase dad through a giant caterpillar on the lawn at the Sensory Garden. Music, children's activity, storytelling, and more!

## Orchid Lights 2003

"IT'S A BUG'S LIFE!"

Wednesday evening, June 18

This year's theme is "buggy" (of course), and you're invited! Orchid Lights is the Arboretum's annual gala fundraising event, which raises monies for the gardens and for education and research programs. It includes silent and live auctions and dinner. To receive an invitation to this very special evening, members are asked to call 952-443-1425.

## Tiffany Lamp Club Show

Saturday and Sunday, June 21 & 22  
11 a.m.–4 p.m.

Try your hand at "painting with glass" and enjoy the glow of Tiffany-style stained-glass lamps, created by the Tiffany Lamp Club of Minnesota. Many of the lamps have floral subjects. Club members will present exhibits and demonstrations on lamp and window construction. Learn how the glass is selected, cut, shaped, and joined together.

## JULY

### Arboretum Auxiliary 19th Annual Summer Garden Tours

"A SUMMER'S DELIGHT"

Sunday, July 13, 9 a.m.–12 p.m.

Tuesday, July 15, 8 a.m.–12:30 p.m.

Wednesday, July 16, 8 a.m.–12:30 p.m.

A 3-hour escorted tour of 4 gardens in the western metro-area. Sunday tours include brunch at the Arboretum and depart every 45 minutes. Lunch on Tuesday or Wednesday is optional; tours depart every 30 minutes.

For detailed tour descriptions and schedules, please refer to the registration form

enclosed in this newsletter. Tours fill quickly! For more forms or information, call 952-443-1400, ext. 7052 or visit the July calendar of events on the Arboretum website.

### TOUR FEES

\$55 – Sunday (with brunch)

\$45 – Tuesday and Wednesday (with lunch)

\$30 – Tuesday and Wednesday (no lunch)

**NOTE:** Lunch/Non-lunch option available for these tours only: 8 and 11:30 a.m., 12 and 12:30 p.m. No lunch on 11 a.m. tour.

## Other Horticultural Opportunities

### UPPER MIDWEST INTRODUCTION TO PERMACULTURE WORKSHOP

May 22–25

Learn about permaculture from experienced practitioners. For info and registration, call Paula at 612-870-3467 or email permanentagriculture@hotmail.com.

### North American Rock Garden Society

#### PLANT AND SEEDLING SALE

Saturday June 7th from 10 to noon

Free and open to the public for the first time, NARGS members' annual sale includes an auction of special plants. At Roseville Central Park. For details call Rick at 952-446-9272.

## Big Bugs Volunteer Opportunities

Big Bugs will bring many volunteer opportunities from May through September.

A general training for all Big Bugs Volunteers will be held on **Tuesday, April 29, at 2–4 p.m., or 6–8 p.m.** To R.S.V.P (required), please call Liz Nystrom at 952-443-1437.

Share your enthusiasm for the Arboretum with first-time visitors and help staff a membership kiosk. If you can spare a few hours during weekdays or weekends, call Leslie Cooney at 952-443-1438.

## 2003 Travel Tours

Arboretum and Minnesota State Horticultural Society members are offered a reduced price for each of the Arboretum's 2003 tours. In addition to public and private gardens, you

will enjoy other cultural sites and experiences. Please call Pat O'Brien at 952-443-1443 to put your name on a travel tour mailing list, or visit the travel section of our website ([www.arboretum.umn.edu/The\\_Arboretum/Visitor\\_Information/Travel\\_Tours](http://www.arboretum.umn.edu/The_Arboretum/Visitor_Information/Travel_Tours)).

**NOTE:** The *Italy and South Africa* trips have been temporarily postponed. For updates on these trips, please watch this travel section in upcoming editions of the News.

### THE SCENIC BEAUTY OF IRELAND

September 27–October 4

Great gardens and scenic countryside of Ireland. A weeklong journey includes 4 nights in Killarney, 2 nights in Limerick; several gardens in the southwest of Ireland including Inacullin, Creagh, and Dereen (these gardens are tempered by the Gulf Stream and offer amazing variety); visits to the Ring of Kerry, the rugged Dingle Peninsula, Muckcross Estate, and Bunratty Castle. An optional day of golf can be arranged, and participants can also choose to extend their stay for 2 nights in Dublin. \$1,995 plus tax.

### A HARVEST TOUR TO THE ENGLISH COUNTRYSIDE – Limited availability

October 14–21

Participate in the English harvest with its roots in spiritual, agricultural, community, economic, historical, and religious traditions. Visit experts from the farmyard, the village, the market town, and the majestic cathedral city of Lincoln. This unique English experience is offered only once during the 2003 harvest. Space is very limited for this tour. \$2,795 plus tax.

### EXPLORING SANTA FE AND TAOS

October 22–26

Northern New Mexico has been shaped by a unique blend of Native American heritage, colonial Spanish influence, and Western American frontier tradition: sun-drenched adobe-style buildings, a cuisine of robust flavors, a vibrant lifestyle, and an appreciation for art and nature. Explore private homes, secret gardens, the Georgia O'Keeffe Museum, and magnificent scenery. Indulge in a spa treatment, wander through world-class art galleries, sample fiery foods, and relish the charm and beauty of two cities that captivate all visitors. \$2,090 including air fare. ☼

## MAY

**SPRING PEEPER RENDEZVOUS:  
DISCOVERING FROGS & TOADS\***

Thursday, May 8, 7–9 p.m.

JULIA BOHNEN

Every spring amorous amphibians head to the nearest wetland to mate. Learn to identify five of this area's most common frogs and toads and gain a better understanding of what triggers their rowdy rendezvous. Short lecture in Snyder Building precedes visit to Spring Peep Meadow (SPM).

Julia Bohnen is a research horticulturist involved with the SPM restoration project.

Class fee: \$20 members, \$30 non-members. Class limit 15. Classroom 2. Dress for hiking. (2 PDH)

**BASIC DESIGNS:  
TURNING LAWN TO GARDEN\***

Friday, May 9, 1–3 p.m.

DANIEL DIX

Replacing your lawn with a garden can be daunting. Learn the problems, possibilities, and processes before undertaking such a task. Get inspired to create a garden that reflects your personality and setting.

Daniel Dix is a garden designer and owner of WoodSpirit Gardens located in Backus, Minnesota. He specializes in landscapes that work in harmony with the land.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. (2 PDH)

**MOSS HANGING BASKET\***Tuesday, May 13, 9:30 a.m.–12 noon  
(Session 1) OR 1–3:30 p.m. (Session 2)

DUANE &amp; RENEE OTTO

Design your own moss-lined basket and watch it evolve all summer. Specialty plants, soils, fertilizing, and watering techniques.

Duane Otto designs and maintains the hanging baskets at the Arboretum. Renee Otto is a floral designer. They own Otto's Floradora in Watertown, Minnesota.

Class fee: \$40 members, \$50 non-mem-

bers. Fee includes all materials. Class limit 20. Dress for planting. Bring a box to take your hanging basket home. Headhouse, located in the Maintenance Area near the Pine Collection along 3-Mile Drive. (2.5 PDH)

**LANDSCAPING WITH IRISES\***

Wednesday, May 14, 6–8 p.m.

BILL DOUGHERTY

Discover the many different types of iris suited for northern gardens. Learn plant care, division, diseases, and pest problems as well as how to use irises in a wide range of settings.

Bill Dougherty is a landscape designer, President of the Iris Society of Minnesota, and American Iris Society garden judge. He hybridizes and grows 200 varieties and cultivars of Siberian irises.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. (2 PDH)

**SUCCULENT PLANT  
BONSAI WORKSHOP\***

Thursday, May 15, 6–8 p.m.

ALAN KVASNIK

This class will emphasize *indoor* bonsai, the art of growing dwarf succulent trees from dry tropical climates. Gain an understanding of design, planting, and maintenance, and take home your own bonsai creation.

Alan Kvasnik owns Green Canvas, a Minnetonka plant-leasing company specializing in bonsai and sculptural plants.

Class fee: \$40 members, \$50 non-members. Includes materials. Class limit 15. Classroom 2. Bring a box to take your bonsai home. (2 PDH)

**BEGINNING FENG SHUI FOR THE  
HOME AND GARDEN\***

Sunday, May 18, 1–3 p.m.

ELAINE R. ANDERSON

Introductory class on *feng shui*, the Chinese system of geomancy or the study of the earth. Learn the four basic principles of *feng shui*; the *bagua*; and simple *feng shui* adjustments. Visit the Arboretum gardens to see examples.

Elaine R. Anderson is founder and owner of Red Tortoise, Inc., a *feng shui* consultation service in Plymouth.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. (2 PDH)

There is an intermediate class on June 1.

**CREATING NEW LANDSCAPES:  
AGGREGATE LAND RECLAMATION**

Monday, May 19, 8 a.m.–4 p.m.

This conference will address the issue of land reclamation as it relates to aggregate mining (pits and quarries) and other types of mining.

Keynote speaker Tony Bauer, FASLA, will discuss *Mining to Create New Landscapes*, including sessions on Issues and Opportunities, The Reclamation Planning Process, and Case Studies. L. Peter MacDonagh, ASLA, will share insight on *Plant Restoration in a Post-Glacial Landscape*. Cosponsored by the Arboretum, the H.W.S. Cleveland Fund, and The Kestrel Design Group, Inc.

Class fee: \$140 members and non-members, \$30 students (must present ID). Includes admission, two meals, handouts. Auditorium. For further details, call 952-443-1422 or e-mail education@arboretum.umn.edu. (5 PDH)

**THE WORLD OF HONEY BB  
AND HONEYBEES\***

Thursday, May 29, 6–8 p.m.

GARY JOSELYN

Topics include the honeybees' lifestyle, how honey is made, bee keeper's equipment, and an opportunity to taste some of the many common and unusual honeys, such as lavender, rosemary, mesquite, Australian eucalyptus, and New Zealand's *manuka* honey.

Gary Joselyn, a honeybee hobbyist, maintains his hives in Crystal and shares honeybee products with family and friends.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. (2 PDH)

**LILACS AND  
SPRING-FLOWERING SHRUBS\***

Friday, May 30, 10 a.m.–12 noon

PETER MOE

At winter's end, nothing is more pleasant than shrubs coming alive with beautiful blossoms. Find out which spring-blooming shrubs do well in Zones 3 and 4. Learn about old favorites and new cultivars on the market. Visit Arboretum gardens to see examples.

Peter Moe is a horticulturist and the Director of Operations at the Arboretum.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. (2 PDH)

*Classes continued on next page*

**BB** = Featuring Big Bugs

**PDH** = Professional Development Hours

\* = Volunteer vouchers accepted

**CREATIVE ROCK GARDENING WITH  
BALDASSARE MINEO**

Saturday, May 31, 1:30–2:30 p.m.

**BALDASSARE MINEO**

Baldassare Mineo, author of *Rock Garden Plants: A Color Encyclopedia*, shows how to use alpine and other plants to enhance all kinds of landscapes. Book signing after the lecture. Cosponsored by the Arboretum and the North American Rock Garden Society, Minnesota Chapter.

Class fee: \$7.50 for Arboretum, NARGS members, \$15 all others. Auditorium. (1 PDH)

**DRAWING WITH PEN AND  
INK AND PASTELS\***

Saturday, May 31, June 7, 14, 1–4 p.m.

(3 sessions)

**BRUCE A. WILSON**

Use nature's textures to add color and depth to your drawings. Basic drawing will be followed by pastel techniques, then pen and ink detailing. Demonstrations, guidance from the instructor for your own project.

Bruce A. Wilson has exhibited his work several times in the Snyder Building gallery. He is the owner of Alan Art in Minnetonka, specializing in wildlife and landscapes.

Class fee: \$85 members, \$105 non-members. Class limit 15. Classroom 2. Bring drawing paper, pastels, ink pens, and photo of your subject. Questions? Call the instructor at 952-935-6207 or email wilson4663@earthlink.net. (9 PDH)

**JUNE**

**INTERMEDIATE FENG SHUI  
FOR GARDENERS\***

Sunday, June 1, 1–3 p.m.

**ELAINE R. ANDERSON**

This intermediate level *feng shui* class will cover the application of the five element cycle to the garden, adjustments for unusual shapes, *feng shui* meanings of flowers and trees, and guidelines for water features. Students should have a beginning level of understanding of *feng shui* and the *bagua*.

Elaine R. Anderson is founder and owner of Red Tortoise, Inc., a *feng shui* consultation service in Plymouth, Minnesota.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. Bring ques-

tions about or a sketch of your own garden on a piece of paper (8<sup>1/2</sup> x 11 max). (2 PDH)

**CREATING COLORFUL  
DESIGNS IN CONTAINERS\***

Thursday, June 5, 3:30–5:30 p.m.

(Session #1) OR 6–8 p.m. (Session #2)

**TIM KORNDER**

Add color and enhance any area of your garden by placing colorfully planted containers. Take home 14"-16" container planted with a mix of annuals and tender perennials.

Tim Kornder is the owner of Brewery Creek Farm Market in Belle Plaine, Minnesota. The nursery specializes in herbs, heirloom vegetables, and specialty plants.

Class fee: \$40 members, \$50 non-members. Class limit 15. Auditorium. Dress for planting. (2 PDH)

**THE GARDEN ECOSYSTEM: BB  
ROLE OF INSECTS\***

Saturday, June 7, 8–2:30 p.m.

**VARIOUS SPEAKERS**

Join us for this symposium and learn how plants and insects live interdependently to create a unique ecosystem that we often take for granted. Presentations by Dr. Eric Grissell, entomologist and author of *Insects and Gardens*; Dr. Carll Goodpasture, entomologist and photographer of *Insects and Gardens*; and Dr. Colleen Cannon, Assistant Professor in Dept. of Entomology, University of Minn.

Class fee: \$75 for members and non-members. Fee includes admission, continental breakfast, lunch, and handouts. Auditorium. Visit the Arboretum website, call 952-443-1422 or email education@arboretum.umn.edu for more detailed information. (4.5 PDH)

**GARDENING WITH PERENNIALS\***

Tuesday, June 10, 10–12 noon

**DUANE OTTO**

Perennials have a lot to offer in the garden throughout the year. Learn all there is to know about perennials, from recent introductions to old-time favorites, how to establish, maintain, and care for them at home.

Duane Otto is a landscape gardener at the Arboretum. The Slade Perennial Garden is one of the many gardens he maintains.

Class fee: \$20 members, \$30 non-members. Class limit 30. Auditorium. (2 PDH)

**LANDSCAPING FOR WILDLIFE\***

Saturday, June 14, 10–12 noon

**L. PETER MACDONAGH**

Incorporate specific plant communities into your home landscape with ecological sensitivity and beauty. Combine plants for visual and ecological impact. Find out which trees, shrubs, vines, and perennials wildlife like best.

L. Peter MacDonagh, of The Kestrel Design Group, Inc. in Edina, is a landscape architect and horticulturist specializing in ecological solutions to land design and planning.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 1. (2 PDH)

**WATER GARDENS: DESIGN, CONSTRUCTION, AND AQUATIC PLANTS\***

Thursday, June 19, 6–8 p.m.

**SONI FORSMAN**

A naturally balanced water environment will bring years of pleasure without the invasion of algae. Learn about site selection, proper pond conditions, materials and construction, and selecting plants for northern climates.

Soni Forsman owns Water Lilies by Forsman in Eagan. She began growing water plants more than 2 decades ago during a long, cold Minnesota winter.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. (2 PDH)

**WRITER'S WORKSHOP:  
FINDING YOUR VOICE AND YOUR  
INSPIRATION\***

Saturday, June 21, 9 a.m.–4 p.m.

**SARAH TIECK NOVAK**

If you have a passion for words and learning, this class will inspire you and give you the tools and creative techniques you need to capture moments and landscapes in words.

Sarah Tieck Novak is the Associate Editor of Minnesota Monthly Magazine

Class fee: \$65 members, \$80 non-members. Class limit 10. Classroom 1. Lunch on your own. Bring a pen and a notebook. There will be in-class writing exercises and time for sharing your work. (6 PDH)

FOR EDUCATION INFO

952-443-1422

[www.arboretum.umn.edu](http://www.arboretum.umn.edu)

**PAINTING ON SILK SCARF WORKSHOP\***

Tuesday, June 24, 10 a.m.–2 p.m.

**ELNA GOODSPEED**

Learn to hand-paint on silk. No special artistic skills required. Take home your own painted 12" x 60" silk scarf. Additional unpainted scarves will be for sale.

Elna Goodspeed is a teacher and fiber artist. Her creations have been for sale at art centers, local gift shops, and the Arboretum.

Class fee: \$40 members, \$50 non-members. Fee includes all materials. Class limit 15. Classroom 2. Lunch on your own. Bring to class an apron, rubber gloves, stamps, stencils, iron, and hairdryer. (3.5 PDH)

**NATURAL HANDCRAFTED SOAP\***

Wednesday, June 25, 1–3:30 p.m.

**DEB DELMORE**

Soap-making is therapeutic, and soaps make great gifts. Learn how to do it with store-bought oils and herbal scents. Take home soap samples and recipes. Special kits will also be available for sale.

Deb Delmore is owner of Sunrise River Collection located in Stacy, Minnesota. Her soaps are available at the Minnesota Renaissance Festival and in stores in the Twin Cities.

Class fee: \$40 members, \$50 non-members. Class limit 20. Fireplace Room. (2.5 PDH)

**THE ART OF FLORAL DESIGN\***

Thursday, June 26, 10 a.m.–12 noon

**KATIE HOWARD**

Discuss which flowers last and do well in arrangements; vases; tools; techniques. Demonstration on different styles. The emphasis will be on summer flowers

Katie Howard is an artist, teacher, and gardener. She has a decade of experience in floral design.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. Bring your camera if you would like to capture the finished arrangements for future ideas. (2 PDH)

**HERB DAY: HINTS & TIPS FOR USING HERBS\***

Saturday, June 28, 8:30 a.m.–12:30 p.m.

**VARIOUS PRESENTERS**

Keynote speaker Veronica Malone highlights the 3rd Annual Herb Day with a presentation

on **Unusual Herbs to Grow and Use**. This year's theme: using traditional herbs non-traditionally. Other topics include cosmetics, household products, dyes, medicinal applications, and teas for health. Cosponsored by the Minnesota Herb Society and the Arboretum.

Class fee: \$35 members, \$45 non-members. Includes admission, continental breakfast, handouts. Auditorium. For a brochure, call 952-443-1422 or email education@arboretum.umn.edu. (3.5 PDH)

**EDIBLE AND MEDICINAL WILD PLANTS OF MINNESOTA\***

Sunday, June 29, 1–3 p.m.

**MATTHEW ALFS**

Learn how to identify and use what you harvest from the wild. You may have a natural grocery store and medicine cabinet in your backyard and you didn't know it!

Matthew Alfs, author of *Edible & Medicinal Wild Plants of Minnesota & Wisconsin*, is an herbalist trained in many healing traditions. He's a graduate of Wild Rose College of Natural Healing in Calgary, Alberta, Canada.

Class fee: \$20 members, \$30 non-members. Class limit 30. Classroom 2. The book is available for sale in the Gift Shop. Book signing after the lecture. (2 PDH)

**Other Learning Opportunities**

**KEATING GREENHOUSE PROPAGATION CLINIC**

Thursdays, May 8 and June 5

11 a.m.–12 noon

The Keating Greenhouse is located in the Home Demonstration Gardens, across the road from the Wilson Rose Garden. Free with paid admission. (1 PDH)

*The Compleat Scholar (CSch 0962)*

**THE MOONLIGHT GARDEN: CREATING A LUMINOUS LANDSCAPE**

May 14 & 21, 6:30–8:30 p.m. (2 sessions)

**SHIRLEY MAH KOOYMAN**

Garden enchantment from the Arboretum's own adult education manager. \$45 (age 60 or Arboretum members, \$40.50). Class limit 25. 423 Alderman Hall, St. Paul campus.

For information, call 612-624-4975 or email kbacklun@cce.umn.edu. ☘

**CLASS REGISTRATION FORM**

Mail this form to: CLASSES, Minnesota Landscape Arboretum, 3675 Arboretum Drive, P.O. Box 39, Chanhassen, MN 55317.

One form per person; photocopy as needed. Phone reservations accepted

PLEASE LIST DESIRED CLASSES ‡ .

|         |          |
|---------|----------|
| _____   | \$ _____ |
| _____   | \$ _____ |
| _____   | \$ _____ |
| _____   | \$ _____ |
| _____   | \$ _____ |
| _____   | \$ _____ |
| TOTAL ‡ | \$ _____ |

\* Volunteer vouchers accepted † Gate fee waived with paid tuition

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Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Telephone Work \_\_\_\_\_ Home \_\_\_\_\_

I am an Arboretum member. \_\_\_\_\_ Member number \_\_\_\_\_

Make checks payable to Minnesota Landscape Arboretum, or:

Charge my  VISA  Mastercard

Card # \_\_\_\_\_ / \_\_\_\_\_ Expiration date \_\_\_\_\_

Name as it appears on card \_\_\_\_\_

Signature \_\_\_\_\_

**ABOUT CLASS REGISTRATION**

If you register by mail, use the form on this page and send it with your check or credit card info to Classes at the Arboretum. Registration fees will be refunded if requested at least one week prior to the first class session. If the Arboretum must cancel a course, we will contact you and refund the fee. No refunds otherwise. **No confirmation will be sent.** For more information call 952-443-1422, or email education@arboretum.umn.edu.

**TELEPHONE DIRECTORY**

**Main Number**  
952-443-1400

**Andersen Hort. Library**  
952-443-1405

**Auxiliary Info.**  
*Frog Hollow*  
952-443-1453

**Events Information**  
952-443-1400, Ext. 7052

**Bloom Line**  
952-443-1400, ext. 5010

**Contributions**  
952-443-1432

**Education**  
952-443-1422

**Gift Shop**  
952-443-1439

**Membership**  
952-443-1440

**Reservations**  
952-443-1411

**Fax**  
952-443-2521

**Website**  
www.arboretum.umn.edu



**Member Privilege Number**  
**612-624-4776**

*Weekdays*  
9 a.m.–12 p.m.

Present name and Arboretum member number. Always dial the above-listed number for direct service to Arboretum members. This call-in help line is a benefit of membership and is not transferable.

**HOURS: MAY & JUNE, 2003**

|                 | MON-WEDS      | THURS-SAT     | SUNDAY        |
|-----------------|---------------|---------------|---------------|
| GROUNDS         | 8 AM-SUNSET   | 8 AM-SUNSET   | 8 AM-SUNSET   |
| SNYDER BUILDING | 8 AM-5:30 PM  | 8 AM-8 PM     | 10 AM-5:30 PM |
| LIBRARY         | 8 AM-4:30 PM  | 8 AM-4:30 PM* | 11 AM-4:30 PM |
| GIFT SHOP       | 10 AM-5:30 PM | 10 AM-8 PM    | 10 AM-5:30 PM |
| TEA ROOM        | 10 AM-5:30 PM | 10 AM-8 PM    | 10 AM-5:30 PM |

\* *The Library* will remain open until 7 p.m. on Thursdays in June, July and August and will open at 11 a.m. on Saturdays year-round. *The Big Bugs Information Tent* will be open 10 a.m.–4 p.m., Monday–Wednesday, and 10 a.m.–7 p.m., Thursday–Sunday, May 3–September 27.



**Buggy Boutique**

**Take home a memento of Big Bugs.** After your tour of the exhibit, stop by the Gift Shop for a vast selection of gift and educational items with an insect theme: children's puzzles, garden ornaments, puppets, sculptures, I.D. manuals, and more. Prices are in the \$5–\$25 range.

10% member discount applies; present valid membership card.

**NEW ADMISSION FEE:** \$7 for adults. Free for members and for children 18 and under. Fee includes participation in activities and events unless otherwise noted. Admission fee is waived after 4:30 p.m. on Thursdays all year (excluding some special events).

**PLEASE NOTE:** Pets are not permitted at the Arboretum, except dogs working to assist individuals with disabilities.

**WANTED: PREVIOUSLY OWNED BOOKS**

Spring cleaning? Moving? Or "just simplifying"? We can help! Bring your gently used books to Andersen Horticultural Library for our fall book sale. Please call ahead to make sure a librarian is available to assist you and bring books during normal Library hours. 952-443-1405.

  
**FOUNDATION**  
 Minnesota Landscape ARBORETUM  
 3675 Arboretum Boulevard  
 Chanhassen, Minnesota 55318-9613

*A publication for members and friends of the Arboretum*

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