



Minnesota Landscape  
ARBORETUM

# ARBORETUM *News*

MARCH/APRIL 2001 VOL 20 NO 2

UNIVERSITY OF MINNESOTA

ANDERSEN HORTICULTURAL  
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UNIVERSITY OF MINNESOTA

## *Celebrating volunteerism*

### **A SHARED TRADITION OF SERVICE**

#### **INSIDE**

- Director's Message 2**
- Little Known Perennials 3**
- Perennial of the Year**
- Shrubs for Your Yard 4**
- Spring Annual Design 5**
- Pruning Simplified 6**
- Arboretum Auxiliary 7**
- Researching in AHL**
- Events & Activities 8**
- Calendar 9**
- Classes 13**



BY LIZ NYSTROM

*Coordinator of Volunteers*

The year 2001 has been designated as the International Year of Volunteers by the 123 countries of the United Nations General Assembly. Its aim is to "build more government, non-profit, and private sector partnerships that will engage new volunteers in alleviating local social problems." In response, the United States government has challenged all Americans to recognize our shared tradition of volunteering and to commit to it as a unifying force in building stronger communities.

At the Arboretum, volunteers have been doing this since the earliest days. Volunteers were responsible for our very first "roots," actively maintain our "garden" of today, and will help make future growth possible. In the 1950s, the volunteer members of the Men's Garden Club of Minneapolis spearheaded the plan to create an arboretum in Minnesota. Almost 50 years later, volunteer garden clubs and plant societies still contribute hours of work maintaining the Arboretum.

The roster of volunteers should include Arboretum donors, who raised the money needed to purchase the first parcel of land in 1958. Today, contributions allow the Arboretum



*Thursday morning volunteers mulch azalea beds. L-R: Mary Lou Detwiler, Bruce Gethin, Fiona Hemsworth, Bob Hardin, Niki Lee Carlson, and George Carhart. Photo: Jeffrey Johnson*

to expand gardens, research initiatives, youth programs—and to confidently plan a new visitor center and conservatory.

The Minnesota State Horticultural Society, the University of Minnesota Board of Regents, and the University's Department of Horticultural Science collaborated to found the Arboretum. Many members of these institutions were, and still are, volunteers. The Arboretum Board of Trustees' give their time and talent on a voluntary basis, as do the Arboretum Auxiliary, Friends of the Library, and other sub-groups of our volunteer pool.

The per-hour dollar value of

volunteering in Minnesota and nationwide, based on the average non-agricultural wage, plus estimated benefits of 12%, is \$14.30 per hour. During 1999, Arboretum volunteers reported over 33,000 hours on their time sheets. Even though this represents only a fraction of the actual time volunteered, it equals a contribution of \$472,000!

Chances are, your relationship with the Arboretum defines you as a volunteer. The Arboretum is here because of you, it continues to depend on you, and the staff and board of the Arboretum salute you, especially during this International Year of Volunteers. ♣

## DAZZLING EVENTS OF 2000 BRIGHTEN OUTLOOK FOR NEW CENTURY

BY PETER J. OLIN

Director

### CAMPAIGN FOR THE FUTURE

Some amazing things happened over the past year, but nothing could have amazed us more than the \$10 million gift by a long-time Arboretum member and friend. This historic gift will be the basis of funding for our new Visitor Center. The next step is for the Visitor Center to become part of the University of Minnesota's 2002 capital request to raise the other \$10 million needed to construct and furnish the building. This will include building interactive learning models, moving all our utilities and roadways, and building additional parking space.

Also on the list of amazing accomplishments in 2000, the Marion Andrus Learning Center has been remodeled and the Sally Oswald Education addition completed. Over the winter, we will be building exciting interactive exhibits for the entry display rooms. Children, teachers and families will find that the "new" Learning Center offers an interesting, attractive learning experience.

These two buildings, the Learning Center and Visitor Center, will form the core of the "New Arboretum," a cultural destination that appeals to visitors of all ages. Primarily this means the Arboretum will do more to appeal to children as well as adults. Attending to the future of our children is an appropriate, worthwhile goal as we enter a new century.

### BUILDING AWARENESS

Along with construction of new buildings, look for increased visibility of the Arboretum. Attendance is growing by about

#### Correction

The correct spelling of the capital of Estonia is Tallinn. Tallin, as it appeared in the January-February newsletter, is the Russian spelling and an unwelcome reminder of recent history. Thanks to Estonia-born Harry Teder, an Arboretum member and volunteer, for letting us know.

### CAMPAIGN UPDATE

Thanks to the historic gift received late in December 2000, the Arboretum's Comprehensive Campaign stood at \$41 million on January 1. Our goal is \$65 million, so we still have a way to go, but we are confident of reaching our goal.

The Arboretum's FY2000 annual report is now available. If you would like to receive a copy, please call the Development office at 952-443-1432.

10,000 visitors per year—a good rate, but a fabulous place with as much to offer as our Arboretum should be used by even more people and on a year-round basis. Further, continued growth is necessary to maintain our beautiful gardens, model landscapes, and exhibits, and to offer a growing number and variety of educational opportunities. We will be directing promotional efforts to residents of the metropolitan area, to residents of greater Minnesota, and to people visiting from outside the state. The Minnesota Office of Tourism has put us on their "best places to visit list," which should give us a big boost with our 2001 marketing.

### MODELS FOR LEARNING

How do these plans fit with our mission? Our research in hardy landscape plants, fruit, and restored native ecosystems/habitats is directed primarily at Northern Gardeners who live in urban and suburban landscapes. The more exhibits we have showing how plants might be used or native landscapes restored, the better. Further, our educational programs for children and adults—accommodating many different levels of ability—need to reach more people so that they have the means to make major improvements to the environment in which we live. To make all this possible, we must attract more people to the Arboretum and meet and exceed their expectations for an enjoyable learning experience.

Equally important, we plan to create more model landscapes from which to learn.

Currently we are exploring the concept of "rain gardens," landscapes that absorb runoff from paved areas, purify the water, and return it to our wetlands. We are considering educational exhibits for children and adults and gardens especially for children. Starting next winter, we will expand Arbor Lights as the linchpin of future winter garden models—a part of our Minnesota landscape that gets insufficient attention.

The Arboretum is a never-ending work in progress. As the new millennium unfolds, we look at the Arboretum as a critical part of the Twin Cities' cultural milieu, as an institution which serves the community year-round with research, teaching, and outreach, an institution which works to give Minnesotans the best possible environment in which to live. ♣



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The Arboretum welcomes your opinions, questions and ideas. Contact Maria Klein, P.O. Box 39, Chanhassen, MN 55317-0039 • maria@arboretum.umn.edu • 952-443-1444.

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To request a copy of this publication in alternate format, please call 952-443-1438.

*Baptisia Australis*

## LITTLE KNOWN AND UNUSUAL PERENNIALS

## Perennial of the Year:

**CALAMAGROSTIS XACUTIFLORA**  
 'KARL FOERSTER' (Feather reedgrass)



Feather reedgrass, 2001 Perennial Plant of the Year, is an ornamental grass excellent for use as a specimen or to create a vertical effect. The best-selling ornamental grass in Minnesota, it forms a tight, upright bunch that does not have invasive rhizomes and sets no seed. It grows to 4-4 1/2 feet, so you can use it as contrast to low-mounded shrubs or perennials, or as a hedge or screen. It provides movement as well as height—the slightest breeze sets it in motion. In early June, inflorescences appear atop lush green foliage. Flowers emerge light pink, then turn golden tan. Seedheads remain all winter.

Plant *Calamagrostis xacutiflora*\* 'Karl Foerster' in fall or spring in full sun or partial shade and in well-drained soil. Water well until established. It is hardy to zone 4 and is widely available.

At the Arboretum, look for this plant in several locations. In the small serpentine perennial bed near the first upper parking lot near the Snyder building, you'll find feather reedgrass blooming in late June. At the entry to the Sensory Garden, feather reedgrass makes a showy wave extending up the hill toward the Wilson Rose Garden. Also in the Ornamental Grass collection between Parking Lots 6 and 8 on 3-Mile Drive, you'll find this showy grass along with the fall blooming *Calamagrostis brachytricha* and the variegated form, *Calamagrostis xacutiflora* 'Overdam'. ♣

BY LYNN MEYER

*Arboretum Horticulturist*

**B***aptisia australis*, or Wild Blue Indigo, is a perennial plant that is as lovely as it is sturdy. Its beautiful mass of blue-green foliage and deep-blue flowers make it compatible with other perennials and many shrubs. It has nearly year-round interest as its elegant pea-like foliage emerges very early in the spring, its flowers last for 3 to 4 weeks in late spring, its refined foliage carries it through summer, and its attractive black seedpods usually last from fall into winter.

The genus *Baptisia*, which is in the family Leguminosae, includes about 35 species native to areas from Massachusetts to Minnesota. The genus name comes from the Greek word *baptizein*, meaning "to dye." The common name, Wild Blue Indigo, refers to its use as a substitute (though not a great one) for true indigo, *Indigofera*, of the West Indies. In fact, in the mid-1700s, when true indigo was in short supply, the English government commissioned farmers in Georgia and South Carolina to raise *Baptisia australis* in an effort to increase the supply of the blue dye—one of the first recorded examples of agricultural subsidies.

*Baptisia australis* is a shrublike, bushy, mounded plant that grows 3 to 5 feet tall and nearly as wide. Deep-blue, lupine-like flowers are borne atop arching stems on spires approximately 12" in length. Individual flowers are about 1" long and, if left on the plant, develop into black, brittle 2-2 1/2" seedpods containing pea-like seeds that rattle inside when ripe. The flowers, foliage, and dried seedpods are all quite

**BAPTISIA AUSTRALIS**

<b>Native</b>	Massachusetts to Minnesota
<b>Family</b>	Leguminosae
<b>Light</b>	Moderate to bright sun
<b>Moisture</b>	Tolerates drought once established
<b>Soil</b>	Rich soil with good drainage
<b>Fertilizer</b>	Apply plenty of organic matter



Tricky to see in black & white, graceful green foliage of *Baptisia australis* provides a backdrop for stalks of delicate dark blue flowers. Photo: Andersen Horticultural Library

desirable for floral arrangements. If left on the plant, some seeds will fall to the ground and germinate the following spring.

Wild Blue Indigo forms large, fleshy tap roots, which extend deep into the ground. Because of these roots, this plant does not like to be moved or divided and can be slow to establish. Once established, however, it tolerates drought and requires very low maintenance. So, carefully choose a location with deep, rich soil that drains freely, in full sun or light shade, and let this plant be. As members of the legume family, these plants can fix their own nitrogen, but they still prefer amendments of lots of organic matter. Too much shade will result in leggy plants with few blooms.

If your *Baptisia australis* gets a bit floppy (usually a result of too little light), you can use a peony hoop or rough sticks to support the plant, or you can cut the plant back by one third after flowering. Shearing will eliminate unwanted self-seeding and will result in new growth which fills in within about three weeks. However, it will also prevent formation of the interesting seedpods.

*Baptisia australis* is not prone to disease or insect problems. This tough yet elegant plant is available at most local nurseries and garden centers. Make space in your garden for this unsung garden beauty today! ♣

\* The initial letter x of a botanical name indicates a hybrid origin. (The x is not pronounced.)

## DIVERSE SHRUBS SERVE MANY PURPOSES IN HOME LANDSCAPES

BY NANCY ROSE

Research Horticulturist

**A**lthough they are often overlooked, shrubs are an essential ingredient in good landscape design. Shrubs serve many functions in the landscape—they're not just dust ruffles to hide the house foundation! Whether used in large masses, small groups, or individually, shrubs provide visual interest and serve as an important transition between tall elements such as shade trees and lower-growing groundcovers and turf.

Even when used for practical landscape functions like screening or edging, shrubs can add valuable multi-season beauty. Shrubs are available in a great variety of sizes and shapes and with an astonishing diversity of foliage, flowers, and fruit throughout the year. Much as a well-designed perennial bed can provide an ever-changing procession of color and texture, a good selection of shrubs can provide the same on a larger scale. While it's easy to find many shrubs that provide a glorious burst of bloom in the spring, it's also important to include shrubs that feature



*Ilex verticillata* 'Shaver'. Photos on pages 4 & 5: Nancy Rose

summer flowers, bright fall color, and persistent fruit or evergreen foliage for winter interest. Whether you go for the eye-popping impact of the glowing carmine-red fall foliage of burning bush (*Euonymus alatus*), or the far more subtle beauty of dangling golden-brown hazelnut (*Corylus* sp.) catkins in early spring, you can certainly find a shrub to match your taste and design aesthetic.

Of course, any landscape design must take the growing requirements of the plants into consideration. Many shrubs would prefer that elusive "moist yet well-drained" soil that we all wish we had in our yards, but they will also grow reasonably well in less-than-ideal conditions. Some shrubs have tolerances to certain growing conditions such as shade, wet soil, or drought

### SHRUBS FOR FORMAL HEDGES

Burning Bush (*Euonymus alatus*)  
 Korean Littleleaf Boxwood (*Buxus microphylla* var. *koreana*)  
 Arborvitae (*Thuja occidentalis*)  
 Yew (*Taxus* sp.)  
 Hedge Cotoneaster (*Cotoneaster lucidus*)

### SHRUBS FOR ACID SOIL

Azaleas and rhododendrons (*Rhododendron* sp.)  
 Blueberries (*Vaccinium*)  
 Summersweet (*Clethra alnifolia*)  
 Winterberry (*Ilex verticillata*)

### SHRUBS FOR ALKALINE SOIL

Peashrub (*Caragana* sp.)  
 Potentilla (*Potentilla fruticosa*)  
 Sumac (*Rhus* sp.)

### SHRUBS FOR INFORMAL HEDGES

Lilac (*Syringa* sp.)  
 Arborvitae (*Thuja occidentalis*)  
 Juniper (*Juniperus* sp.)  
 Honeysuckles (*Lonicera* sp.)  
 Viburnums (*Viburnum* sp.)  
 Redosier Dogwood (*Cornus sericea*)

### SHRUBS WITH FRAGRANT FLOWERS

Lilac (*Syringa* sp.)  
 Mockorange (*Philadelphus* sp.)  
 White Fringetree (*Chionanthus virginicus*)  
 Azaleas (*Rhododendron* sp.)  
 Summersweet (*Clethra alnifolia*)  
 Sweetshrub (*Calycanthus floridus*)  
 Clove Currant, Golden Currant (*Ribes odoratum*, *R. aureum*)  
 Common Witch Hazel (*Hamamelis virginiana*)  
 Daphne (*Daphne* sp.)  
 White Forsythia (*Abeliophyllum distichum*)

### SHRUBS THAT BLOOM IN SUMMER

Japanese Spirea, Bumald Spirea (*Spiraea japonica*, *S. x bumalda*)  
 Smooth Hydrangea (*Hydrangea arborescens*)  
 Panicle Hydrangea (*Hydrangea paniculata*)  
 Smokebush (*Cotinus coggygria*)  
 Potentilla (*Potentilla fruticosa*)  
 Summersweet (*Clethra alnifolia*)

### SHRUBS WITH PERSISTENT FRUIT

Barberry (*Berberis* sp.)  
 American Cranberrybush Viburnum (*Viburnum trilobum*)  
 Black Chokeberry (*Aronia melanocarpa*)  
 Sumac (*Rhus* sp.)  
 Winterberry (*Ilex verticillata*)  
 Coralberry and Snowberry (*Symphoricarpos* sp.)  
 Cotoneasters (*Cotoneaster* sp.)

which make them valuable for use in difficult sites in the landscape. Others have very specific soil requirements that must be met in order for the plant to thrive. For example, azaleas and blueberries must have acidic (low pH) soils or they won't live long. (See lists of plants for specific conditions.)

The Arboretum is a great place to see many species and cultivars of shrubs. Look through the gardens near the Snyder Building and in the de Vos Home Demonstration Gardens to see shrubs used as formal and informal hedges, mass plantings, accent plants, companions to perennials, edible landscaping, and other purposes. The new Bailey Shrub Walk presents many of the best shrub cultivars available for landscaping in this region. The endearingly named Miscellaneous Shrubs Collection contains a number of interesting and unusual shrubs, while the Hedge Collection shows many different shrubs pruned into formal hedges. The Arboretum grounds also hold several shrub collections grouped by genera, such as viburnums, spireas, weigelas, and peashrubs. Wander the Arboretum throughout the year to see the seasonal features of these shrubs,



*Hydrangea paniculata* 'Tardiva'

and you're sure to find some new favorites to try in your own home landscape. ♣

*Nancy Rose works on the woody landscape plant research project. She is co-author of Growing Shrubs and Small Trees in Cold Climates, recently released by Contemporary Books and available for sale in the Arboretum Gift Shop.*

#### SHRUBS FOR FALL COLOR

**American Cranberrybush Viburnum** (*Viburnum trilobum*)  
**Black Chokeberry** (*Aronia melanocarpa*)  
**Serviceberry** (*Amelanchier* sp.)  
**Korean Barberry** (*Berberis koreana*)  
**Sumac** (*Rhus* sp.)  
**Common Witch Hazel** (*Hamamelis virginiana*)  
**American Hazelnut** (*Corylus americana*)  
**Burning Bush** (*Euonymus alatus*)

#### SHRUBS TOLERANT OF WET SOILS

**Black Chokeberry** (*Aronia melanocarpa*)  
**Buttonbush** (*Cephalanthus occidentalis*)  
**Redosier Dogwood** (*Cornus sericea*)  
**Summersweet** (*Clethra alnifolia*)  
**Willows** (*Salix* sp.)  
**Winterberry** (*Ilex verticillata*)

#### SHADE-TOLERANT SHRUBS

**Alpine Currant** (*Ribes alpinum*)  
**Bush Honeysuckle** (*Diervilla lonicera*)  
**Summersweet** (*Clethra alnifolia*)  
**Yew** (*Taxus* sp.)  
**Coralberry and Snowberry** (*Symphoricarpos* sp.)  
**Arrowwood Viburnum** (*Viburnum dentatum*)  
**Pagoda Dogwood** (*Cornus alternifolia*)

#### SHRUBS TOLERANT OF DRY SOILS

**Peashrub** (*Caragana* sp.)  
**Potentilla** (*Potentilla fruticosa*)  
**Sumac** (*Rhus* sp.)  
**Juniper** (*Juniperus* sp.)  
**Honeysuckles** (*Lonicera* sp.)

*White tulips from 1995's blue-and-white garden create an elegant, formal effect. Photo: Duane Otto*

## Spring 2001: Pure elegance

BY DUANE OTTO

Landscape Gardener

In a dramatic departure from recent displays of rich color, an all-white scheme will create a mood of lightness and elegance in this year's spring garden. A subdued palette will shift the focus from color to texture, shape, and composition.

By mid-April, the entrance drive will be illuminated with a mixture of white pansies: *Viola* 'Delta Pure White', an all-white pansy, and *Viola* 'Colossus White with Blotch', a white pansy with a purple face or marking. The Gatehouse will float in drifts of white tulips: *Tulipa* 'Maureen', a single late variety; *Tulipa* 'White Triumphator', a lily-flowering late variety; and *Tulipa* 'Mt. Tacoma', a double late variety.

The Snyder Building plantings will include a sidewalk display of *Tulipa* 'Maureen' and a flagpole display of *Tulipa* 'Shirley', a single, late, white tulip blushed with a touch of lavender. The front terrace will feature *Tulipa* 'Swanwings', the elegant, pure white tulip with crystalline fringed edges and black anthers, and containers overflowing with white pansies. Morgan Terrace containers will combine white hyacinths, tulips, narcissus, pansies, and *Allium* 'Mt. Everest'. Look for white pansies and tulips in the Home Demo Gardens.

Splashes of white will unfurl until about Mother's Day, when the annuals will be planted to continue the all-white theme. ♣



## BEYOND SHIGO: PRACTICE HELPS PERFECT THE ART OF PRUNING

BY JEFFREY L. JOHNSON  
*Arboretum Horticulturist*

### Part I

#### Pruning is partially an art.

It takes practice  
You will make mistakes  
Practice and make mistakes on  
non-critical plants  
Judgment is key!  
Learning is ongoing  
To some, it is a philosophical endeavor

#### Pruning is part science.

Shigo's Target Pruning Methodology:  
With a purpose  
Improve the plant  
Allow the plant to "seal," i.e.,  
prune just outside the branch  
collar whenever possible  
Respect natural seasonal cycles  
and functions

#### Know your plants and their care, needs, tendencies.

#### Understand how plants function.

Growth patterns of different types of  
plants  
Flowering habits  
Fruiting habits and influences on fruit  
quality

#### Pruning is not:

A substitute for a good landscape plan  
Right plant : right place  
Performed once, then forgotten for long  
periods of time  
A cure-all for plant health care

*NOTE: Dr. Alex Shigo is considered the "father" of modern arboriculture, coining terms such as "Target Pruning" and "Compartmentalization." He has authored several books and scientific publications. Visit the following websites for more information about pruning and Dr. Shigo.*  
[www.chesco.com/~treeman/SHIGO/](http://www.chesco.com/~treeman/SHIGO/)  
[www.teleport.com/~pnwisa/shigo.html](http://www.teleport.com/~pnwisa/shigo.html)

### Part II:

#### DECIDUOUS TREES AND SHRUBS

#### Thin! Thin! Thin!

#### 1/3 Rules of Thumb:

Thinning back to a branch  
Thin to a branch that is at least 1/3 the size of the branch you are removing  
Thinning only a maximum of 1/3 of the active tissue in a plant per year

#### "Young" and "Old" are relative, subjective terms.

Pruning young trees and shrubs  
Discipline in mind  
Respect your elders  
Avoid overpruning "old" trees and shrubs

#### 5-Step Process—A guide (*Your judgment is key!*)

##### 1. Sanitation

Remove dead, diseased, wounded wood

##### 2. Clearance

High? Wide? Traffic, powerlines  
Avoid future difficulties  
Directionally prune

##### 3. Structure

Eliminate weak branch angles and water sprouts  
Distribute major scaffold branches

##### 4. Framing

Remove crossing, duplicating branches

##### 5. Balance and finish

Thin additionally as needed to balance plant  
Remove suckers from base of plant

#### PRUNING OF EVERGREENS = NEEDED PLANTS

#### Timing is critical.

Only at the correct time should you prune certain evergreens without dire consequences

#### Shape by shearing only.

#### Remove dead/diseased/damaged/weak wood.

Same as for deciduous broad-leaved trees and shrubs

#### Thin live evergreen branches to "sculpt" or "age" a plant.

Evergreens often have attractive bark if exposed, noticed, and appreciated.

#### PRUNING IS ONE TOOL IN PLANT HEALTH CARE

If there are plant-health issues, get to the root of the problem (pun intended).

Most plant health issues are soil/environmental issues.

Avoid temptation to treat the symptoms rather than the causes ♣

## Research in the Library

BY JUDY SPIEGEL

I have been contributing to the plant terminology column for more than two years, and I have an admission: I get my ideas and information from Andersen Horticultural Library (AHL). Questions pour into the Library regularly from Arboretum staff, University faculty, and Library patrons alike. No place is better suited to answer these questions than AHL, thanks to its large, unique collection of horticultural material, and to its knowledgeable staff.

Since its opening in 1974, the Library has provided information to both on-site and telephone patrons. Library contents do not circulate, and although its rare books are accessible only by appointment, the remainder of the collection can be used by anyone during regular daily hours.

AHL's thousands of yearly visitors are astonished at the wealth and variety of the material housed in this intimate, comfortable wing of the Snyder Building. Over 10,000 titles grace its shelves, ranging from beautiful coffee table books on rhododendrons in China to manuals on vegetable gardens to guides of national parks. File cases on huge rollaway shelves hold hundreds of nursery and seed catalogs old and new. The Library's anteroom houses over 450 magazines and botanical garden publications from around the world. The Library also publishes its own resource material, including *Andersen Horticultural Library's Source List of Plants and Seeds*.

Research can be done in person for lengthy projects or by phone for short inquiries. The Library staff can find a source for virtually any plant and will help patrons locate research material quickly and thoroughly. Myself, I just find a likely-looking book or magazine, pull up one of the George Nakashima-designed chairs, and get busy. ♣

*The Library is open 7 days a week, 52 weeks of the year, except University of Minnesota holidays. Please see page 16 for specific hours.*

## SPRING PLANT SALE—AN AUXILIARY TRADITION

BY SUSAN KAAKANI

### Auxiliary Plant Sale Chair

This year will mark the 33rd year of the Arboretum Auxiliary's Spring Plant Sale (May 12 & 13). Despite its present-day scale and popularity, it started quite small. Shirley Engh, who chaired the event for more than 10 years, increased its size considerably, adding many consignment growers. Its current size makes it possible to cover all areas of interest to most gardeners—shade and sun perennials, shrub roses, hostas, herbs, ornamental grasses, native wildflowers, prairie, vines, trees & shrubs.

What makes the Auxiliary sale outstanding is its "one-stop shopping" approach and the fact that we do try to offer unusual and hard-to-find plants. Moreover, with hundreds of varieties of plant material to choose from and about 75 volunteers to offer knowledge and assistance, it is the single largest fundraiser for the Auxiliary. The Plant Sale is a wonderful ambassador for the Arboretum in the best way possible: through the shared love of plants and through our carefully researched plant selections.

The Auxiliary invites you to become a

part of the Spring Plant Sale. We start potting in March and times and schedules are available from the Auxiliary's information line, 952-443-1400, extension 7052.

### COME JOIN US AND LEARN!

Preparing for the Spring Plant Sale is a great way to welcome spring, exchange plant information, and meet a lot of friendly people who share a love of gardening and care deeply about the Arboretum.

There are several ways you can help:

**Rose potting** begins on Saturdays, March 24 & 31, 9–12 a.m.

**Greenhouse clean-up** takes place on Tuesday, March 27, at 9 a.m. (inclement weather date: Thursday, March 29).

**Regular plant-potting** starts in April on each Tuesday and Thursday morning 9-12 until plant sale set-up week.

For more Auxiliary volunteer opportunities and information, please check our voice-mail calendar at 952-443-1453. ♣

### Auxiliary programming note:

*Save the date for the next Auxiliary quarterly meeting on May 2. Norm Baker, Northstar Nurseries, will give a talk on daylilies. For more information, call 952-443-1400, ext. 7052.*



*Unseasonable cold doesn't deter large numbers of hardy Minnesota gardeners from shopping at the Auxiliary's annual plant sale. Photos of last year's event: Don Breneman, U of M Extension Service*

## March

### *Arboretum Events*

#### Tea is Served!

Wednesdays, 3:00–4:30 p.m.

#### Through March

Join us for winter's last month of afternoon tea in the cozy Fireplace Room. Enjoy a crackling fire, lengthening daylight, and the always in-season fragrance of home-baked delights.

Cost: \$15 per person (includes admission fee). Prepayment secures your reservation; walk-ins on availability basis only.

Call 952-443-1411 for reservations.

#### "Growing To Learn" 2001

Saturday March 3, 8:30 a.m.–3:30 p.m.

Teachers—Learn how to integrate culture with plant science using hands-on activities at the **2001 Growing to Learn Conference** for elementary educators, held this year in the Arboretum's new Youth Education Building.

Keynote speaker Dr. Emily Hoover, U of M horticulturist and Arboretum director of education, will present **An Apple A Day**. Join her on a whirlwind world tour of apple production; learn about Minnesota apple cultivars and breeding science, and pick up ideas for using apples in teaching science.

Celebrate uses of plants in different cultures, with natural links to classroom studies in science, nutrition, math and language arts. Choose from sessions offered in three concurrent tracks: **Learn How To Grow It** in sessions about seeds, herbs, or classroom growing tips; **Experience Harvest and Cultural Heritage**, such as maple sugaring science and traditional native foods, in the fully equipped Harvest Kitchen. Pick up activities from **Understanding Plants**, about inner working of plants, fibers, or apples in science, math and reading. Teachers may also join a tour of the Maple Sugarbush or the Japanese Garden after lunch.

The cost for the conference is \$55. For more information and to obtain a registration form, call (952) 443-1450 or email Anne@arboretum.umn.edu.

#### Turning Seasons Family Festival Events

The Arboretum's new Family Festivals give you and your family a chance to spend time together while experiencing the best of the Arboretum. Come visit the newly renovated Learning Center where activities are as abundant as the plants.

#### HARVEST TO HEARTH

Sunday, March 18, 1–4 p.m.

Spring is in the air, but at the Learning Center we have "grain on the brain." Our new Harvest Kitchen will be brimming with activities and ideas the entire family will enjoy. Plant wheatberry seeds to hide those Easter eggs. Make a garlic Tahini spread or grind your own oats to make oatmeal. Make a simple wheat sprouter to bring home and taste test some very unusual cereals—then try to identify what type of grain you are really munching on. Activities are free with paid admission. Meet in Learning Center.

#### Member Event

#### Spring Preview & New Member Reception

Sunday, March 11

New member reception, 1:00 p.m.

Main program, 2:30 p.m.

Arboretum members are cordially invited to attend our Spring Preview. A reception for new members will take place in the Fireplace Room, followed by a program for all members in the Auditorium.

This is an exciting time for the Arboretum, with many new initiatives springing to life. We'd like to tell you about some of them and ask you to share your comments. Director Peter Olin will present the Arboretum's vision for the future with slides, architectural drawings and descriptions.

In addition, several other staff members will be on hand to discuss the latest in their program areas: HRC horticultural researcher Nancy Rose; Jean Larson, coordinator of the Therapeutic Horticulture Program; and Pete Moe, director of Arboretum operations.

The program will close with a tour of the

newly opened Learning Center for a glimpse into the opportunities that now await children at the Arboretum.

Watch for your invitation in the mail, or call the Membership Office at 952-443-1440 or 952-443-1438 for more information.

## April

### *Arboretum Events*

#### Lifting of the Roses

Saturday, April 14, 8 a.m. start

Come help or observe as the Minnesota Rose Society and Arboretum staff and volunteers "untip" roses buried last fall. Wilson Rose Garden.

#### Easter Brunch

Sunday, April 15, 11:00 a.m.–2:00 p.m.

Brunch includes assorted pastries, eggs, bacon, sausage, French toast, salads, sliced meats, vegetables, and a dessert buffet. Gate fees apply in addition to ticket prices. Advance reservation only, call 952-443-1411. Cost: Adults, \$11.95; children 6–12, \$5.95; children 5 and under, free. Space is limited.

#### Turning Seasons Family Festival Event

#### GARDEN FESTIVAL

Sunday, April 22, 1–4 p.m.

Come learn how to plant, grow and tend your own vegetable garden. Design your own garden, plant some seeds to take home, and make your own markers. Discover how much fun and easy gardening can be, no matter how big a space you have. Just imagine, a garden with style, function, and family togetherness! Free with paid admission. Meet in Learning Center.

#### Walk on the Wild Side

Sunday, April 22, 1:00 p.m.

The 2001 season's first tour will showcase the Dayton Wildflower Garden. Featured

*Events continued on page 11*

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# *Gardens of Portugal*

*September 27 – October 9, 2001*

*presented by*

**The Minnesota Landscape Arboretum  
and  
The Minnesota State Horticultural Society**

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The gardens of Portugal are featured in this 11-night tour sponsored by the Minnesota Landscape Arboretum and the Minnesota State Horticultural Society. Gardens combining Roman, Moorish and Spanish influences in garden design are visited on this journey. This exciting tour takes you to various regions of Portugal, from the Port Wine producing area of the north to the flowering garden island of Madeira, off the coast of Africa in the Atlantic Ocean. And you will marvel at the use of tiles in gardens, as well as the Moorish influence of water in garden design. And, as an added benefit, you will have the opportunity to savor Portuguese cuisine, exceptionally good and not expensive!

Your tour starts in Lisbon, where you spend three days touring this Old World capital, still exuding much of the charm of Europe of the past. Gardens and botanical gardens are visited during your stay. You then continue north to Conimbriga, where a peristyle garden has been reproduced in the excavated Roman city located there. You stay at one of the most interesting palaces in Portugal. The deluxe Buçaco Palace Hotel is situated on 250 acres of grounds containing four hundred native and three hundred exotic species of trees. Included in these are giant cedars of Lebanon, cypresses, sequoias and palms, gathered from the far corners of the former Portuguese empire.

Topiary and manicured gardens surround the hotel, and the hotel itself is a wonderful example of neo-

Manueline and Renaissance architecture. The colorful *azulejos* (ceramic tiles) on the walls of the hotel are outstanding!

Then we proceed to the wine-growing region of the Douro River, famous for the production of Port wines. Your stay at the Vintage House Hotel, a former port wine lodge, where the King of Spain recently spent several days. You are in the wine region during the grape harvest, so the fields will be alive with workers busily harvesting grapes from the fields. From here, several days are spent in Oporto, on the Atlantic coast, where the Douro River flows into the Atlantic. Several well-known gardens in and around Oporto will be visited, and a gala dinner at Taylor's Port Wine Caves highlights your stay here.

Our final days in Portugal will be on the island of Madeira, known for its wine of the same name. Embroideries, lacemaking, wicker, and of course, it's beautiful and luscious gardens are what Madeira is known for. Orchids, antheriums, birds of paradise and native plants, such as laurasilva, are on display on this most colorful island. Located off of the coast of Africa, this volcanic island has tropical temperatures year-round. You're sure to enjoy the display of colors and scents on Madeira.

The Minnesota Landscape Arboretum and the Minnesota State Horticultural Society invite you to join this exciting garden tour next September.

MINNESOTA STATE  
**HORTICULTURAL  
SOCIETY**

**TOUR PRICE: \$3295**  
*from Minneapolis + airline taxes (approx. \$60)*  
All prices are per person based on double occupancy.  
Single room supplement \$695



Minnesota Landscape  
**ARBORETUM**

**Thu., Sep 27** *Twin Cities/Lisbon*  
Fly to Lisbon today via Newark to begin your tour. Meals, entertainment and beverages served enroute.

**Fri., Sep 28** *Lisbon*  
Upon arrival in Lisbon, clear immigration and customs. As our hotel room will not be ready this early, we visit the gardens at the *Palacio Marques de Fronteira*, a French style garden in the style of Versailles. Lunch is on your own in Lisbon. After lunch continue on to Cascais, on the Estoril coast, to check in at our hotel. The balance of the day is at leisure.  
**Estoril Sol Hotel**

**Sat., Sep. 29** *Gardens of Lisbon*  
Following buffet breakfast, depart for a full day tour of Lisbon, with an emphasis on its gardens, including the *Jardim Tropical Botanico* and the *Jardim Botanico da Ajuda* in Belem. En route we see some of Lisbon as well. Lunch is included on the tour. We return to Cascais for overnight at your hotel. The evening is free.  
**Estoril Sol Hotel** **B, L**

**Sun., Sep. 30** *Gardens of Sintra*  
Today we visit the gardens of the *Palace of Queluz*, outside of Lisbon. In Sintra, we visit several gardens. *Montserrate* is a wild, romantic garden of a once magnificent estate. Sub-tropical trees from all over the world can be found here, including the giant Australian Christmas tree, the native *Arbutus*, and cork oak. Newly opened in Sintra is the garden of the *Quinta da Regaleira*, an extraordinary garden of ornate, neo-Manueline structures set in a glorious green wooded hillside. Lunch is on your own in Sintra. After lunch a visit to the shops and boutiques of Sintra is a must. In the afternoon, we return to Cascais via the Atlantic Coast and visit Cabo da Roca, the westernmost point of Western Europe. The evening is free.  
**Estoril Sol Hotel** **B**

**Mon, Oct. 1** *Conimbriga/Buçaco*  
We leave Lisbon after breakfast and journey to the center of Portugal, stopping at Conimbriga, the largest and most extensively excavated Roman site in Portugal. In about 25 BC, Conimbriga became a major town in the Roman Empire. Baths, a forum, and the aqueduct have been uncovered from this era. One of the largest houses discovered in the Western Roman Empire has been discovered here. This opulent villa, the *Casa de Cantaber*, is built around ornamental pools in superb colonnaded gardens, with its own bath complex and a sophisticated heating system.

Following this visit, we continue to Coimbra, to visit the *Jardim Botanico*, Portugal's largest botanical gardens, created in 1772. Nearly 50 acres are devoted to a remarkable collection of some 1,200 plants, including many rare and exotic species that today are laid out as formal pleasure gardens. Lunch is available in one of the many great restaurants in Coimbra, and following lunch, we have a short drive to our hotel, the Buçaco Palace Hotel. The hotel is laid out on grounds that are

part ancient woodland, part arboretum. The National Forest of Buçaco was a monastic retreat from the 6<sup>th</sup> century, and in 1628, the Carmelites built a house here, walling in the forest to keep the world out. Portuguese explorers brought trees and plants from all parts of the New World. The venerable "Buçaco cedar" is believed to have been planted here in 1644. The valley of ferns, leading down to a small lake, is lined with luxuriant specimens collected worldwide. We spend the afternoon engrossed in this magnificent wooded parkland. This evening we enjoy dinner with wine at the hotel.  
**Buçaco Palace Hotel** **B, D**

**Tue., Oct. 2** *Casa de Mateus/Port Wine Country*  
After a leisurely breakfast we travel to the Douro River area, where the grapes for port wine are cultivated, and if conditions are right, the grape harvest will be underway while we are there. We stop for a visit to the *Casa de Mateus*, depicted on the labels of Mateus Rosé wine. Built in the 18<sup>th</sup> century, the manor house has beautiful formal gardens, with the highlight being the 115-foot long Cedar Tunnel, formed from cedars planted in 1941. Rising to a height of 25 feet, the tight-knit greenery provides an aromatic walk. Also on the grounds are immaculate boxwood-edged flowerbeds. We continue to Pinhão, where we check into the Vintage House Hotel, located right on the Douro River. The balance of the day is at leisure.  
**Vintage House Hotel** **B**

**Wed., Oct 3** *Cruise on the Douro/Visit to Vineyard*  
Today's activities include a leisurely cruise on the Douro River, drifting along the vineyards of the wine country. We cruise to a quinta nearby, where we disembark for lunch. The afternoon is spent visiting a vineyard, where we have a chance to sample the wines and perhaps purchase some to take home. Upon our return to the hotel, the balance of the day is at leisure.  
**Vintage House Hotel** **B, L**

**Thu., Oct. 4** *Porto*  
Today our journey takes us to Porto, Portugal's second city, and capital of the north. Recently named by UNESCO as a World Heritage City, Porto is Europe's Cultural Capital City for 2001. Several gardens in the Porto area will be visited, including the *Jardim do Palácio de Cristal*, *Quinta do Meio*, and the *Parque de Serralves*. In the evening, we visit a Port Wine Cave for dinner and a sampling of the famous wines of the region.  
**Hotel Vila Galé Porto** **B, D**

**Fri., Oct. 5** *Porto and the Gardens of the North*  
After breakfast, we journey to the region to the north of Porto known as the Minho. This region is Portugal's most historic, and once was one of the most remote on the Iberian peninsula. The gardens of this region are smaller than those in other areas of Portugal, but nonetheless, the gardens which we can visit are lovely formal gardens such as the *Jardim do Museu dos Biscainhos* (17<sup>th</sup> century) and the *Quinta do Alão* (from the 15<sup>th</sup> century).  
**Hotel Vila Galé Porto** **B**

**Sat. Oct. 6**

**Madeira**

After breakfast we depart Porto by air to the island of Madeira. Upon arrival in Funchal, we visit gardens in the area en route to our hotel. Madeira has some lovely gardens and an outstanding botanical garden. The *Quinta da Boa Vista* was established over 200 years ago, and is noted for its orchid collection. Other gardens in the area include the *Quinta das Cruzes*, the *Jardim Tropical da Quinta do Monte Palace*, the *Quinta do Palheiro Ferreira*, the *Jardim Botanico da Madeira*, and the *Quinta da Palmeira*, all featuring flowering trees such as arbutus, callistemon, and jacaranda, as well as plants such as South African aloes, bromeliads from South America, and Madeiran native plants, including orchids. In the evening, we enjoy a typical Madeiran espetada dinner at a local *churrascaria*.

**Hotel Atlantic Bay**

**B, D**

**Sun., Oct. 7.**

**Madeira**

After a leisurely breakfast we continue our exploration of the gardens of Madeira. A tour of the city and the surrounding countryside will be included today as well. You'll view the island from sea level to the peaks overlooking the Nun's Valley, providing breathtaking views of the Madeiran landscape.

**Hotel Atlantic Bay**

**B**

**Mon., Oct. 8**

**Lisbon**

We visit the last of our gardens today, and in the afternoon, depart by air for Lisbon. For our final night in Lisbon, we have a farewell dinner at a Portuguese restaurant in the city.

**Hotel Estoril Sol**

**B, D**

**Tue., Oct. 9**

**Flights home**

After an early breakfast, we depart Lisbon for the airport and our flights home.

**B, L, S**

**B = breakfast, L = lunch, D = dinner**

**This outstanding value includes the following:**

- Round trip air transportation between Lisbon and Minneapolis
- Hotel accommodations at the hotels specified in the itinerary (or equivalent)
- Buffet Breakfast daily, two lunches and four dinners, as specified in the itinerary
- Sightseeing as indicated in the itinerary
- Round trip airport transfers
- Deluxe motorcoach transportation with English-speaking guide
- All tours as described in itinerary
- Group meetings before and after the tour at the Arboretum
- Pre-departure information
- A \$150 donation to the Arboretum and Horticultural Society

**Terms and Conditions:**

**Deposit due with booking: \$500 per person**

**Final payment due June 15**

**Cancellation Notice** - All cancellations must be in writing. Cancellation fees are as follows:

Up until 91 days prior to departure, \$100 per person

90 - 45 days prior to departure, 25% of tour cost

44 - 30 days prior to departure, 50% of tour cost

Within 30 days, 100% of the tour cost will be forfeited.

**Trip cancellation insurance is recommended and available through Dayton's Group Tours.**

**RESERVATION FORM**

**GARDENS OF PORTUGAL TOUR**

I (we) have read and hereby accept and consent to all terms

and conditions as set forth in the brochure.

Name (1) \_\_\_\_\_

Name (2) \_\_\_\_\_

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

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

Telephone: (H) \_\_\_\_\_ (W) \_\_\_\_\_

Single applicants, check one:

I want a single room (single supplement charged)

Roommate requested

Deposit in the amount of \$500 per person is enclosed.

Or, please charge to my (our) Dayton's, VISA or MasterCard:

Card type \_\_\_\_\_ Card # \_\_\_\_\_

Expiration: \_\_ Signature \_\_\_\_\_

Mail or fax completed form with \$500 deposit per person to:

Dayton's Group Travel  
 700 on the Mall, Mail Stop 750  
 Minneapolis, MN 55402  
 Tel: (612) 375-2881 / (800) 533 0324  
 Fax: (612) 375-2891  
 e-mail: [jglad@nwds.com](mailto:jglad@nwds.com)

### **Your hotels for this tour:**

#### **HOTEL ESTORIL SOL – Lisbon/Cascais**

Located on the ocean in a resort area to the west of Lisbon, the Hotel Estoril Sol has 310 refurbished rooms. Most rooms have a balcony and a view across Cascais Bay and its fishing port of Cascais. Rooms have marble baths, direct dial telephone and color TV, with in-room safes and hair dryers. The rooms are air-conditioned and have double-glazed windows. The public areas of the hotel include a piano bar and restaurant, a health club with sauna and gym, a gift shop, hairdresser and a salt-water swimming pool. The Casino Estoril is located about 1 mile from the hotel – it claims to be the largest in Europe and stages an excellent international show every night. The fishing village of Cascais, with its narrow streets and quaint gift shops is located less than a mile from the hotel. Many fine restaurants can be found in the village of Cascais.

#### **HOTEL BUÇACO PALACE – Mealhada**

The hotel is set in the middle of 250 acres of woodland originally planted by Carmelite monks in the 17<sup>th</sup> century. The present palace was built on the site of the old Carmelite monastery as a summer retreat for the Portuguese monarchy. It features over 700 species of trees, rare local and exotic plants, waterfalls, lakes and gardens. This large area is a setting of extraordinary beauty. The Battle of Buçaco (1810) was fought on the ridge just above the forest in 1810, and it marked the first serious reverse suffered by Napoleon in his campaigns in the Iberian Peninsula. The palace itself was only completed in 1907, only three years before the declaration of the Republic and the end of the monarchy and it therefore had little royal use. At Buçaco you can see the remains of the original 'Mosteiro dos Carmelitas'. On show are famous prints by Alfonso Mucha and also a famous sequence of *azulejos* (painted tiles) depicting the Portuguese conquest of Ceuta and the Battle of Buçaco. The hotel boasts a superb restaurant and a wine cellar of great renown. The incredible Buçaco Wines, 'mis en bouteille au chateau', are also a legendary specialty not available elsewhere. The Buçaco Palace offers 66 luxurious rooms, each with a private bathroom, hair dryer, satellite TV, radio, International direct dial telephone. The exclusive dining room serves excellent Portuguese and classic cuisine and is one of Portugal's most renowned restaurants. It has a romantic terrace overlooking the park. The Lobby bar is just the perfect setting for enjoying the old rare wines and the exquisite liquors in distinguished ambiance.

#### **HOTEL VILA GALÉ – Porto**

This first-class property is located in the center of Porto. It features 292 air-conditioned rooms, with amenities including hair dryers, color cable TV, direct dial telephone, computer modem hookups, mini-bar and in-room safes. There is a restaurant located in the hotel, with a bar/lounge and a restaurant on the premises.

#### **VINTAGE HOUSE HOTEL – Pinhão**

A delightful hotel located on the Douro River in Pinhão, in the wine-producing region of northeast Portugal. The hotel is a former port wine lodge and house, used in the days when it took six hours to make the journey by train from Porto. The peaceful vineyards of the Douro surround the hotel. The Vintage House has 43 rooms, each with a river view, air-conditioned, with direct-dial telephone, TV/VCR, and in-room safes. A restaurant and a bar are located in the hotel, as are an outdoor swimming pool and a tennis court. The high-beamed bar/lounge with fireplace is a wonderful place to sample one of the many port wines available at the hotel.

#### **ATLANTIC BAY HOTEL -- Funchal, Madeira**

Atlantic Bay Hotel is situated in a bay on the Atlantic Ocean and just a mile or two from the center of Funchal. A cliff at the back the hotel provides protection and complete tranquility. There is a direct access to the sea and a splendid view over Europe's highest cliff, the 'Cabo Girão'. From the balconies of the rooms you can watch beautiful sunsets. A promenade allows guests to walk along the sea. The hotel has 184 rooms, with direct dial telephone, balcony with sea view, satellite color TV, in-room safe and hair dryers. A bar/lounge and a restaurant are located within the hotel.

**REPPONSIBILITY:** Dayton's Group Tours, the Minnesota Landscape Arboretum ("MLA"), the Minnesota State Horticultural Society ("MSHS") and Pinto Basto Tours, its outfitters, operators of the tour and/or suppliers of services act only for the owners or contractors providing means of transportation or other services, and all tickets are issued subject to any and all terms and conditions under which such means of transportation or other services are offered or provided. The issuance and acceptance of such tickets shall be deemed as consent to further conditions that neither the operators, nor any of their subsidiaries or affiliated companies, shall be or become liable or responsible in any way in connection with such means of transportation or other services, or for any loss, injury, damage to or in respect of any person or property howsoever caused or arising. The airlines and operators concerned are not to be held responsible for any act, omission or event during the time passengers are not on board their planes, boats, or conveyance. Passenger ticket in use by the carrier, when issued, shall constitute sole contract between carrier and purchaser of tour and/or passenger. Dayton's Group Tours, the MLA, MSHS, and Pinto Basto Tours reserve the right to decline to accept or retain any person as tour passenger should such person's health or mental condition or physical infirmity or general deperment impede the operation of the tour or the rights or welfare or enjoyment of other tour passengers. While no revisions of the itinerary or its features are anticipated, Dayton's Group Tours, the MLA, MSHS, and Pinto Basto Tours, nevertheless, reserve the right to make any changes with or without notice that might become necessary or that are considered to be in the best interests of the tour members. Rates published are subject to change up to and including the day of commencement of travel.

*arboretum calendar*

**MARCH**

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p><b>CALENDAR LEGEND</b>                      C = Class or Workshop                      L = Lecture                      S = Symposium or Conference                      P = Public Program or Event                      M = Member Program or Event</p>						<p>S-Growing to Learn Conference 8:30 am-3:30 pm</p> <p>P-Art Exhibits H. Charles McNamara &amp; Lakeland Marquetry Society Snyder Building hours</p>
				1	2	3
			P-Afternoon Tea 3-4:30 pm	P-Propagation Techniques Clinic 11 am-12 noon		C-Spring Into Action: Successful Gardening 8:30 am-12:30 pm Minnetonka Community Center
4	5	6	7	8	9	10
M-Spring Preview & New Member Reception New member reception, 1 pm Member program, 2:30 pm		C-Creative Herbal Gifts 1-3 pm	P-Afternoon Tea 3-4:30 pm	C-Essential Oils for Well-Being 10 am-12 noon		C-Designing Your Perennial Garden 10 am-12 noon C-Pruning Landscape Trees & Shrubs 1-3 pm
11	12	13	14	15	16	17
C-Principles of Feng Shui: A Multicultural Viewpoint 1-3 pm P-Turning Seasons Family Festival: Harvest to Hearth 1-4 pm		C-Springtime Birdwatching 10 am-12 noon	P-Afternoon Tea 3-4:30 pm	C-Working with Pastels 10 am-12 noon (Session 1) C-Creating a Landscape Plan for Your Home 6:30-8:30 pm (Session 1)		P-Sugarbush Pancake Brunch & Maple Tours Brunch, 9 am-1 pm Tours, 10 am-3 pm S-Gardening for All Seasons 8 am-2:30 pm Plymouth Creek Center
18	19	20	21	22	23	24
P-Sugarbush Pancake Brunch & Maple Tours Brunch, 9 am-1 pm Tours, 10 am-3 pm			C-Gardening Tips for Spring 10 am-12 noon P-Afternoon Tea 3-4:30 pm	C-Working with Pastels 10 am-12 noon (Session 2) C-Creating a Landscape Plan for Your Home 6:30-8:30 pm (Session 2)		
25	26	27	28	29	30	31

# arboretum calendar

## APRIL

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
<p>C-Introduction to Bonsai 2-4 pm</p> <p>1</p>	<p>2</p>	<p>3</p>	<p>C-Daylilies for the Garden 10 am-12 noon</p> <p>4</p>	<p>C-Creating a Landscape Plan for Your Home 6:30-8:30 pm (Session 3)</p> <p>5</p>	<p>6</p>	<p>S-Gardening for All Seasons 8 am-2:30 pm Student Center (St. Paul campus)</p> <p>7</p>	
<p>8</p>	<p>9</p>	<p>10</p>	<p>11</p>	<p>C-Plant Combinations for Containers 10 am-12 noon P-Plant Propagation Clinic 11 am-12 noon C-Creating a Landscape Plan for Your Home 6:30-8:30 pm (Session 4)</p> <p>12</p>	<p>13</p>	<p>P-Lifting of the Roses 8 am start</p> <p>14</p>	
<p>P-Easter Brunch 11 am-2 pm</p> <p>15</p>	<p>16</p>	<p>C-Native Tree Identification in Winter 10 am-12 noon</p> <p>17</p>	<p>18</p>	<p>C-Aromatherapy: Herbal Oils &amp; Scents 10 am-12 noon C-Creating a Landscape Plan for Your Home 6:30-8:30 pm (Session 5)</p> <p>19</p>	<p>20</p>	<p>P-Plant Information Fair 10 am-3 pm</p> <p>21</p>	
<p>C-Caring for Landscape Trees &amp; Shrubs: Beyond Pruning 1-3 pm P-Walk on the Wild Side: Dayton Wildflower Garden 1 pm P-Turning Seasons Family Festival: Garden Festival 1-4 pm</p> <p>22</p>	<p>M-Friends Spring Meeting 1 pm</p> <p>23</p>	<p>24</p>	<p>C-Spring Woodland Wildflowers 10 am-12 noon (Session 1)</p> <p>25</p>	<p>C-Creating a Landscape Plan for Your Home 6:30-8:30 pm (Session 6)</p> <p>26</p>	<p>27</p>	<p>C-Ecological Design Workshop 9 am-3 pm (Session 1)</p> <p>28</p>	
<p>C-Growing Orchids 1-3 pm  Art exhibits close</p> <p>29</p>	<p>30</p>	<td> <td> <td> <td> <td> <p><b>CALENDAR LEGEND</b> C = Class or Workshop L = Lecture S = Symposium or Conference P = Public Program or Event M = Member Program or Event</p> </td> </td> </td></td></td>	<td> <td> <td> <td> <p><b>CALENDAR LEGEND</b> C = Class or Workshop L = Lecture S = Symposium or Conference P = Public Program or Event M = Member Program or Event</p> </td> </td> </td></td>	<td> <td> <td> <p><b>CALENDAR LEGEND</b> C = Class or Workshop L = Lecture S = Symposium or Conference P = Public Program or Event M = Member Program or Event</p> </td> </td> </td>	<td> <td> <p><b>CALENDAR LEGEND</b> C = Class or Workshop L = Lecture S = Symposium or Conference P = Public Program or Event M = Member Program or Event</p> </td> </td>	<td> <p><b>CALENDAR LEGEND</b> C = Class or Workshop L = Lecture S = Symposium or Conference P = Public Program or Event M = Member Program or Event</p> </td>	<p><b>CALENDAR LEGEND</b> C = Class or Workshop L = Lecture S = Symposium or Conference P = Public Program or Event M = Member Program or Event</p>



## SUGARBUSH

### PANCAKE BRUNCH & MAPLE TOUR

Saturday & Sunday, March 24 & 25

Brunch: 9 a.m.–1 p.m.

Sugarbush tours: 10 a.m.–3 p.m.

Welcome spring and join us for the first event of the new growing season, the annual Sugarbush Pancake Brunch and Maple Tour. Brunch includes Arboretum-made maple syrup, all-you-can-eat pancakes, and all the fixings, offered on a first-come, first-served basis. The Sugarbush tour includes tree-tapping (if weather permits) and syrup-making demonstrations at Frog Hollow.

Tickets may be purchased in advance at the Lobby Desk in February and March, but do not imply a reserved seat. Fees include admission to the Arboretum, brunch, and maple tour and demonstrations. Cost: \$6 for ages 11 and up, \$3 for ages 4–10; children 3 and under are admitted free.

plants: bloodroot (*Sanguinaria canadensis*) and Virginia bluebells (*Mertensia virginica*).

Other Walks will be announced in the newsletter and will take place every other Sunday in the Bog, Bennett-Johnson Prairie, Spring Peeper Meadow, as well as the Dayton Wildflower Garden. No reservations needed, no fee with paid admission.

## Friends Spring Meeting

### DRAWING LIFE FROM NATURE

Monday, April 23, 1:00 p.m.

Arboretum members are cordially invited to join the Friends of Andersen Horticultural Library at a lecture by Vera Ming Wong, one of America's most honored natural science illustrators. She will explain how she goes about illustrating nature. She will share some "tricks of the trade," liberally illustrated with examples of her work.

Ms. Wong's work has been published in such books as *Orchids of Minnesota*, *Northwoods Wildlife: A Watcher's Guide to Habitats*, and *Birding Minnesota*. No reservations needed, no fee to Arboretum members.

## Learning Center Summer Programs

### SUMMER DAYCAMPS

The Arboretum Learning Center will offer daycamps for children ages 5–8. **Suncatchers** (entering K–K grads) highlights the smells, tastes, colors and critters in the Arboretum Gardens. **Spring Peepers** (grade 2 & 3 grads) participants explore the plants and animals of Arboretum wetlands. **Shady Shelters** (grade 2 & 3 grads) provides a chance to get up close with trees and shrubs in our yards and in the forest ecosystem.

**Green Thumb Adventurers** (grade 1 & 2 grads) celebrate the Japanese festival of Tanabata, help pollinate flowers, and explore the Arboretum gardens. Campers learn how to grow and multiply plants from seeds and stems. Three-day camps run most weeks from June 11 through the end of July. Registration opens mid-March.

Call 952-443-1450 for information about children's summer camps.

### SUMMER GARDENING FOR CHILDREN

This summer, we will be learning in one of the brand new classrooms at the Learning Center, cooking in the new Harvest Kitchen and, of course, gardening in the Children's Garden. These classes meet on several Saturdays in May and June to plant. Once school is out, we will be meeting once a week until early August.

Call Robin at 952-443-1449 for more information and to find out how to register.

## You Can Help!

The **Learning Center**. If you are interested in being a maple syrup tour guide, teaching groups of elementary age students, or assisting with an occasional Sunday family event, please let us know.

Now is the time to join our education-focused **Tour Guide Program**. The train-

Thanks to volunteers BRENDA HAUSCHILD and JUDY SPIEGEL for their contributions to this edition of the newsletter.

ing for both the Guiding Docents and Bus Guides begins in early April.

The celebrated **Pancake Brunch** will take place on Saturday, March 24 and Sunday, March 25. Bring your pancake flipper and a healthy appetite!

The **Arboretum Auxiliary** needs extra hands to prepare for the Spring Plant Sale. This is a great cure for spring fever!

For more information on these and many other opportunities, please call the Volunteer Office at 952-443-1441.

## May

### Save the Dates!

### 4th Annual 5K Run/Walk

Sunday, May 6

The Arboretum's annual 5K Run/Walk on 3-Mile Drive. Advance entry (by April 29) is \$15. Registration is \$20 on the day of the race. Call 952-443-1454 for information.

### 2001 Spring Plant Sale

Saturday & Sunday, May 12 & 13

Plant lists will be available in late April at the Snyder Building gatehouse and lobby desk for \$1 per copy, or by mail. To order a plant list by mail, please send \$2 for each list requested to: **PLANT LIST, 1605 Fairway Lane, Minneapolis, MN 55426**

You may review *last year's* list on our website, [www.arboretum.umn.edu](http://www.arboretum.umn.edu). Go to the May calendar of events and click on the Plant Sale notice. The 2001 list will be posted in April. (Sorry, plants *cannot* be purchased via the website.)

### Orchid Lights 2001

May 30—Benefactor Event

June 20—Gala Benefit Dinner

Mark your calendars for this year's annual garden party extraordinaire! More details will appear in the next edition of the newsletter. You may also call the events department for information, 952-443-1425.

*Arboretum travel continued on next page*



Portugal by the sea. Photo: Jim Glad

## Arboretum Travel

### Last call for spring trips!

#### VIRGINIA AND WASHINGTON, DC

April 25–30, 2001

Historic and springtime beauty in our capital region and northern Virginia. Tour price of \$1,695/person includes airfare from Twin Cities. For information, call 952-443-1443.

### CHELSEA FLOWER SHOW

May 18–27, 2001

Springtime tour of England includes the Chelsea Flower Show, famous gardens, sightseeing in London and Stratford-upon-Avon, and an optional 5-day, 4-night extension to Ireland. Tour price: \$3,250 plus taxes. Ireland extension will be priced separately. Please call Dayton's Group Travel at 612-375-2881 for information.

### End-of-summer tours

#### GARDENS & CASTLES OF WALES<sup>§</sup>

September 7–22, 2001

Enjoy the company of other northern gardeners and lovely Welsh gardens, including Bodnant, the National Botanic Garden of Wales, and several private gardens. You'll enjoy luxurious accommodations in a castle surrounded by 30 acres of garden, an old mountain-village coaching inn, a small inn on St. David market square, and a lovely

Victorian hotel next door to Cardiff Castle.

Your host will be Charlene Ihrig of AAA travel and board member of the MSHS. Cost: \$4299/person (double occupancy). Includes tour, airfare, & insurance. For information, call 652-643-3601.

#### GARDENS OF PORTUGAL<sup>§</sup>

September 27–October 9

Explore various regions of Portugal, from the port wine-producing north to the garden island of Madeira. Observe Roman, Moorish, and Renaissance influences on garden design and architecture; visit exotic gardens; savor exceptional local cuisine; and enjoy world-renowned Portuguese culture, including lace-making and grape-harvesting.

Tour price: \$3295/person for deluxe accommodations (double occupancy). For more information, contact Jim Glad at Dayton's Group Travel, 612-375-2881. ♣

<sup>§</sup> Cosponsored by the Arboretum and the Minnesota State Horticultural Society.

## CENTER FOR NORTHERN GARDENING—MINNESOTA STATE HORTICULTURAL SOCIETY 2001 CLASS SCHEDULE

### March

#### STARTING WITH SEEDS

NORM WENTE

Thursday, March 8, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

#### CREATIVE CONTAINER COMBOS

ANITA KERPER

Thursday, March 15, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

#### POND BUILDING, AQUATIC PLANTS & MORE

SONI FORSMAN

Tuesday, March 20, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

#### EVERGREENS FOR NORTHERN LANDSCAPES

*Northern Landscape Series*

CHUCK LEVINE

Thursday, March 22, 6:30–8:00 p.m.

Register for *all three* Northern Landscape

programs for \$30, members; \$45, non-members. Or, register for individual sessions at \$15 for members, \$25 for non-members. (The third class is in May.)

#### ANNUAL FLOWERS FOR MINNESOTA

DUANE REYNOLDS

Tuesday, March 27, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

#### GROWING ORCHIDS

STEVE GONZALES

Thursday, March 29, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

### April

#### GROWING ROSES IN MINNESOTA

DAVID ZLESAK

Thursday, April 12, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

#### DUTCH ELM DISEASE & OAK WILT

TIM CONGDON

Tuesday, April 17, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

#### ORNAMENTAL & SHADE TREES FOR NORTHERN LANDSCAPES

*Northern Landscape Series*

CHUCK LEVINE

Thursday, April 19, 6:30–8:00 p.m.

#### APPLYING FENG SHUI IN THE GARDEN AND LANDSCAPE (A two-part series)

ELAINE ANDERSON

Tuesday, April 24 & May 1, 6:30–8:30 p.m.

\$25 for members, \$45 for non-members

#### ANNUALS FOR CONSTANT BLOOM

ANITA KERPER

Thursday, April 26, 6:30–8:00 p.m.

\$15 for members, \$25 for non-members

All classes are held at the Center for Northern Gardeners, 1755 Prior Avenue North, Falcon Heights, MN 55113 (unless otherwise noted). Arboretum members may register at the "member" rate. Sign up for three or more classes and receive a \$5

discount! Enrollment is limited, and pre-registration is required for all classes. For more information and to register call 651-643-3601 or 800-676-MSHS. For the latest MSHS program information go to [www.NorthernGardener.org](http://www.NorthernGardener.org).

## March

### PROPAGATION TECHNIQUES CLINIC

Thursday, March 8, 11 a.m.–12 noon

Learn how to propagate plants from seeds and cuttings. Meet at the Keating Greenhouse, across the road from the Wilson Rose Garden. No reservations needed; program free with paid admission.

### 5TH ANNUAL SPRING INTO ACTION: SUCCESSFUL GARDENING

Saturday, March 10, 8:30 a.m.–12:30 p.m.  
Minnetonka Community Center

Come learn about new plants and gardening techniques. Topics will be: **Crabapples for Seasonal Beauty** (Jim Calkins, horticulturist), **Creative Potted Gardens** (Steve Kelley, plantsman), and **Woodland Wildflowers for Your Garden** (Shirley Mah Kooyman, botanist). The program will be held at the Minnetonka Community Center located at Minnetonka Boulevard (Co. Rd. 5) and I-494. Sponsored by the Arboretum and the cities of Minnetonka and Hopkins. For gardeners of all levels.

Fee: \$35, Arboretum members, Hopkins and Minnetonka residents; \$45, others.

For more information, call 952-443-1516 or email: shirley@arboretum.umn.edu

### CREATIVE HERBAL GIFTS\*

Tuesday, March 13, 1–3 p.m.

GLENDORA ANDRE

Learn how easy it is to make potpourris and natural room scents, herb-seasoned teas, wire-ribbon sachets, and scented papers. Take home samples and recipes.

G. Andre is an herb gardener and handicrafter. She teaches extensively in local community education programs.

Class fee: \$30 members, \$40 non-members. Fee includes all materials. Class limit 20. Meet in Classroom 2.

### ESSENTIAL OILS FOR WELL-BEING\*

Thursday, March 15, 10 a.m.–12 noon

ALYSON CHANDLER

Proper use of plant oils can improve your well-being and help you live pain-free. Gain

insights on how different oils can help control physical and emotional or mental pain.

A. Chandler is a consultant and owner of HeartSoul Enterprises, a healing arts consulting firm in St. Paul, Minnesota.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 2.

### DESIGNING YOUR PERENNIAL GARDEN\*

Saturday, March 17, 10 a.m.–12 noon

DIANE KLAUSNER

Pick up skills for creating and designing your perennial garden. Discover how to use perennials effectively by knowing which plants have longest blooms or interesting foliage and work well together. Learn how to use them in various conditions, sun or shade, dry or wet.

D. Klausner is a registered landscape architect specializing in residential landscape and garden design.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 1.

### PRUNING LANDSCAPE TREES & SHRUBS\*

Saturday, March 17, 1–3 p.m.

JEFFREY L. JOHNSON

Spring is one of the best times to prune your trees and shrubs. Learn terminology, treatment for deciduous and evergreen woody plants, timing, renewal pruning, hedges, proper cuts and equipment.

J.L. Johnson is a horticulturist at the Arboretum's Horticultural Research Center.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 2.

### PRINCIPLES OF FENG SHUI: A MULTICULTURAL VIEWPOINT\*

Sunday, March 18, 1–3 p.m.

ELAINE ANDERSON

Many cultures have traditions for people to relate to their environment in a harmonious, helpful way. Learn the basic principles of Feng Shui, the Chinese system of geomancy (study of the earth), the differences between schools of Feng Shui, and principles of other, similar systems. Emphasis on practical applications.

E. Anderson is the founder and owner of Red Tortoise, Inc., a Feng Shui consultation service located in Plymouth, Minnesota. She is

a founding member and on the board of Feng Shui Institute of the Midwest.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 2.

### SPRINGTIME BIRD WATCHING\*

Tuesday, March 20, 10 a.m.–12 noon

VIVIAN NEIGER

It's spring! So dust off your binoculars and come identify birds migrating back from their winter visits. Learn also which birds spend their winters in Minnesota. First, you'll see a slide show and learn bird songs to aid in identification. Includes a short hike to the bog.

V. Neiger has a lifelong interest in birds and is co-owner of Wild Birds Unlimited in Minnetonka, Minnesota. She also works as a naturalist at Dodge Nature Center.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 2. Bring your binoculars to class.

### WORKING WITH PASTELS\*

Thursdays, March 22 & 29 (2 sessions)

10 a.m.–12 noon

KATIE HOWARD

Learn the basics of composition, color, and design using pastel sticks. Everyone will complete a finished art piece that can be framed. For beginner and intermediate levels.

K. Howard has been an artist and art teacher for 3 decades. She has exhibited locally and received awards for her work.

Class fee: \$40 members, \$50 non-members. Class limit 20. Meet in Classroom 2. Bring to class: pastels (smallest size box of pastels or 8 sticks of primary colors including white, black and brown; soft Rembrandt) and pastel paper (sand texture or velvet). For more information, call the instructor at 952-472-1802.

### CREATING A LANDSCAPE PLAN FOR YOUR HOME\*

Thursdays, 6:30–8:30 p.m., March 22, 29,  
April 5, 12, 19, and 26 (6 sessions)

MICHAEL SCHROEDER

By understanding design principles and processes you will create a landscape plan

*Classes continued on page 14*

tailored to your home. Topics include drives, walks, decks, patios, fences, hedges, grading, drainage, night lighting, foundation plantings, and implementing your plan (specific flower choices will not be covered).

M. Schroeder is a registered landscape architect with the Hoisington Koegler Group, Inc. in Edina, Minnesota.

Class fee: \$75 members, \$95 non-members. Class limit 30. Meet in the Auditorium.

### GARDENING FOR ALL SEASONS

**Saturday, March 24, 8 a.m.–2:30 p.m.**  
**Plymouth Creek Center**

The Arboretum and the Minnesota State Horticultural Society will present the second annual Gardening for All Seasons symposium. Topics: **Attracting Birds to Your Yard** (Stan Tekiela, author), **Great Plant Companions for a Chemical-free Garden** (Sally Jean Cunningham, author), and **Heirloom Flowers and Vegetables: What's Old is New Again** (Janis Kieft, horticulturist).

The symposium will be held in conjunction with the City of Plymouth's Yard & Garden Expo. Fee: \$50, Arboretum and MN State Horticultural Society members; \$60, non-members. Fee includes refreshments, lunch, handouts and admission to the Expo.

For more information, call 651-643-3601, email: johnw@northerngardener.org or shirley@arboretum.umn.edu

### GARDENING TIPS FOR SPRING\*

**Wednesday, March 28, 10 a.m.–12 noon**  
**DUANE OTTO**

Don't get caught off guard by not being prepared for the new gardening season. Find out how the pros do it at the Arboretum—learn tips that will save you money and time, and help you enjoy the garden in the months to come. Class includes hands-on demonstrations in the gardens.

D. Otto, landscape gardener at the Arboretum, designs the annual gardens at the Arboretum and owns Otto's Floradora in Watertown, Minnesota.

Class fee: \$15 members; \$25 non-members. Class limit 30. Meet in Classroom 2.

## April

### INTRODUCTION TO BONSAI\*

**Sunday, April 1, 2–4 p.m.**  
**KEN ELLIS**

Bonsai, developed in Japan, is the art of growing dwarfed trees and shrubs in containers. This lecture-demonstration will include key points of bonsai preparation, care, basic bonsai techniques, proper use and care of bonsai tools, and selection of plants.

K. Ellis, first vice-president of the Minnesota Bonsai Society and an award-winning bonsai exhibitor, has shown his work at various bonsai shows in the Twin Cities.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 2.

### DAYLILIES FOR THE GARDEN\*

**Wednesday April 4, 10 a.m.–12 noon**  
**NORMAN BAKER**

Daylilies are among the most reliable perennials in the garden. Learn about the habits and culture of older and newer plants, including the latest varieties with longer flowering periods, better colors and patterns, and increased bud count.

N. Baker, past-president of the Hemerocallis Society of Minnesota, owns Northstar Nursery, Inc. in Rogers, Minnesota.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 2.

### GARDENING FOR ALL SEASONS

**Saturday, April 7, 8 a.m.–2:30 p.m.**

The Arboretum and the Minnesota State Horticultural Society present their second annual spring Gardening for All Seasons symposium. Topics: **Continuous Bloom with Perennials** (Pam Duthie, author), **New Plant Introductions and Their Origins** (Penny Aguirre, horticulturist), and **Hostas and Companion Plants** (Duane Reynolds, gardener).

The symposium will be held in the Student Center theater on the St. Paul campus of the University of Minnesota.

Class fee: \$50 for Arboretum and MN State Horticultural Society members; \$60 non-members. Fee includes refreshments, lunch, and handouts.

For more information, call 651-643-3601, email: johnw@northerngardener.org or shirley@arboretum.umn.edu.

### PLANT COMBINATIONS FOR CONTAINERS\*

**Thursday, April 12, 10 a.m.–12 noon**  
**DUANE OTTO**

Break from convention and create unexpected combinations of color, texture, height, form, seasonal interest, and color progression for your containers.

D. Otto has been a landscape gardener at the Arboretum since 1989.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in the Auditorium.

### PROPAGATION TECHNIQUES CLINIC

**Thursday, April 12, 11 a.m.–12 noon**

Learn how to propagate plants from seeds and cuttings. Meet at the Keating Greenhouse, across the road from the Wilson Rose Garden. No reservations needed; program free with paid admission.

### NATIVE TREE IDENTIFICATION IN WINTER\*

**Tuesday, April 17, 10 a.m.–12 noon**  
**ROD KUEHN**

It's more challenging to identify Minnesota's native deciduous trees without their leaves. Gain skills for recognizing the trees by knowing their shapes, silhouettes, branching patterns, barks, buds, and associated organisms like galls, bacterial and fungal diseases. Class includes a short hike to the Arboretum's natural areas. Dress for hiking.

R. Kuehn, naturalist, photographer, and native plant enthusiast, owns Prairie Tracks, specializing in software for the naturalist, located in Anoka, Minnesota.

Class fee: \$20 members, \$30 non-members. Fee includes a special field guide. Class limit 20. Meet in Classroom 2.

### AROMATHERAPY: HERBAL OILS & SCENTS\*

**Thursday, April 19, 10 a.m.–12 noon**  
**HELOISA MELO HOKENSON**

Use herbal oils and scents to help ease stress. Learn the characteristics of 15 basic essential oils, their healing and cosmetic properties, and ways to use them. You will

prepare oil blends for massage and bath to take home.

E. Hokenson is a certified aromatherapist, beauty care specialist, and teacher.

Class fee: \$30 members, \$40 non-members. Fee includes all materials and handouts. Class limit 20. Meet in Classroom 2.

**4TH ANNUAL PLANT INFORMATION FAIR**

**Saturday, April 21, 10 a.m.-3 p.m.**

This educational trade fair will feature over 20 plant societies and garden clubs. Specialists will be on hand to answer questions, share information about their club, sell educational materials, including unique books and plants special to the participating clubs. Members of represented organizations will give demonstrations and lectures on various gardening topics. No reservations needed; program is free with paid gate fee. For more information, call 952-443-1516.

**CARING FOR LANDSCAPE TREES AND SHRUBS: BEYOND PRUNING\***

**Sunday, April 22, 1-3 p.m.**

**JEFFREY L. JOHNSON**

Get years of enjoyment out of your landscape trees and shrubs by caring for them appropriately. Learn proper planting techniques, fertilizing, watering, mulching, disposal of leaves, and much more.

J. L. Johnson is a horticulturist at the Arboretum's Horticultural Research Center.

Class fee: \$15 members, \$25 non-members. Class limit 30. Meet in Classroom 2.

**SPRING WOODLAND WILDFLOWERS\***

**Wednesdays, April 25 and May 2  
10 a.m.-12 noon**

**SHIRLEY MAH KOOYMAN**

Learn to identify and recognize some of Minnesota's spring wildflowers. The first class will be a slide lecture at the Arboretum. The second class will meet at Wolsfeld Woods near Wayzata to study the wildflowers in their natural habitat. Dress for hiking.

S. Mah Kooyman is a botanist and the Adult Education Manager at the Arboretum.

Class fee: \$30 members, \$40 non-members. Class limit 20. Meet in Classroom 2.

**ECOLOGICAL DESIGN WORKSHOP\***

**Saturdays, April 28 & May 5 (2 sessions)  
9 a.m.-3 p.m.**

**L. PETER MACDONAGH**

Learn how to design an ecologically sound landscape by using plant communities suited to your site. Lecture will highlight regional ecosystems and plant communities. Whatever your situation, the plant list handouts will help you match the plant communities to your site. Class includes visits to the Arboretum's wetland, woodland, and prairie.

P. MacDonagh, of The Kestrel Design Group, Inc. in Edina, Minnesota, is a licensed landscape architect, arborist and horticulturist who specializes in ecological solutions to land design and planning.

Class fee: \$75 members, \$95 non-members. Includes extensive handouts. Lunch on your own. Class limit 15. Meet in Classroom 2.

**GROWING ORCHIDS\***

**Sunday, April 29, 1-3 p.m.**

**BOB BULTHUIS**

Orchids are much easier to work with than you think. Learn which ones do well in Minnesota homes. Topics include identification, repotting, care, insects, diseases, and a review of major species. Participants will receive an orchid plant to start their own collection.

B. Bulthuis, an award winning orchid exhibitor, has been raising orchids for eight years. He is currently on the Board of Directors of the Orchid Society of Minnesota.

Class fee: \$20 members, \$30 non-members. Fee includes an orchid plant and handouts. Class limit 20. Meet in Classroom 1.

**Art Exhibits**

**March 3-April 29, Snyder Building hours**

BALCONY AND LARGE DISPLAY CASE: Photographs by **H. Charles MacNamara**, owner of MacNamara Associates, Mound, Minnesota.

SMALL DISPLAY CASES: Artworks created by members of the **Lakeland Marquetry Society**. Marquetry is the art of "painting" with wood veneers. A marquetry class is scheduled for May 17.

**CLASS REGISTRATION FORM**

*One form per person, please. Photocopy as needed.*

*We do accept phone reservations.*

<input type="checkbox"/>	Spring into Action: Successful Gardening	\$ _____
<input type="checkbox"/>	Creative Herbal Gifts*	\$ _____
<input type="checkbox"/>	Essential Oils for Well-Being*	\$ _____
<input type="checkbox"/>	Designing Your Perennial Garden*	\$ _____
<input type="checkbox"/>	Pruning Landscape Trees & Shrubs*	\$ _____
<input type="checkbox"/>	Principles of Feng Shui*	\$ _____
<input type="checkbox"/>	Springtime Bird Watching*	\$ _____
<input type="checkbox"/>	Working with Pastels*	\$ _____
<input type="checkbox"/>	Creating Landscape Plan for Your Home*	\$ _____
<input type="checkbox"/>	Gardening Tips for Spring*	\$ _____
<input type="checkbox"/>	Introduction to Bonsai*	\$ _____
<input type="checkbox"/>	Daylilies for the Garden*	\$ _____
<input type="checkbox"/>	Plant Combinations for Containers*	\$ _____
<input type="checkbox"/>	Native Tree Identification in Winter*	\$ _____
<input type="checkbox"/>	Aromatherapy: Herbal Oils & Scents*	\$ _____
<input type="checkbox"/>	Caring for Landscape Trees & Shrubs*	\$ _____
<input type="checkbox"/>	Spring Woodland Wildflowers*	\$ _____
<input type="checkbox"/>	Ecological Design Workshop*	\$ _____
<input type="checkbox"/>	Growing Orchids*	\$ _____
	<b>TOTAL</b>	\$ _____

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

Make checks payable to Minnesota Landscape Arboretum, or Charge my  VISA  Mastercard

Signature \_\_\_\_\_

Card # \_\_\_\_\_

Expiration date \_\_\_\_\_

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

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

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

ZIP \_\_\_\_\_

Telephone Day \_\_\_\_\_

Evening \_\_\_\_\_

I am an Arboretum member.

Member Number \_\_\_\_\_

\$35 Single

\$55 Dual

\$45 Single + One

\$70 Dual Plus

I have enclosed \$ \_\_\_\_\_ for a \_\_\_\_\_ level membership with my tuition payment.

## TELEPHONE DIRECTORY

### Main Number

952-443-1400

### Adult Education

952-443-1516

### Andersen Hort. Library

952-443-1405

### Auxiliary Info.

Frog Hollow

952-443-1453

### Events Information

952-443-1400, Ext. 7052

### Contributions

952-443-1432

### Gift Shop

952-443-1439

### Membership

952-443-1438

### Reservations

952-443-1411

### Fax

952-443-2521

### Website

www.arboretum.umn.edu



### Member

### Privilege Number

612-624-4776

### Winter Hours

Weekdays, October – April

9 A.M. – 1 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—NOVEMBER THROUGH APRIL

	MONDAY–FRIDAY	SATURDAY & SUNDAY
GROUNDS	8 AM–5:30 PM	8 AM–5:30 PM
SNYDER BUILDING	8 AM–4:30 PM	11 AM–4:30 PM
LIBRARY	8 AM–4:30 PM	11 AM–4:30 PM
GIFT SHOP	11 AM–3:30 PM	11 AM–3:30 PM
TEA ROOM—Lunch	11 AM–1:30 PM	11 AM–1:30 PM

GENERAL ADMISSION: \$5 for adults, free for members and for children 18 and under. Gate 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 persons with disabilities.

INCLEMENT WEATHER POLICY: The Arboretum will close whenever the University of Minnesota closes for severe weather and when conditions are worse in Chanhassen. To find out whether the Arboretum has closed, call 952-443-1400, ext. 7054.

## Looking for the Perfect Gift?

Consider giving a gift of membership in the Arboretum!

Whether it's a birthday, anniversary, wedding, graduation, Mother's Day or Father's Day, everyone can enjoy free year-round access to the many gardens and more than 1,000 acres of natural beauty contained within the Arboretum's borders, as well as educational opportunities and special member events. This is a great idea for easy gift-giving that can be appreciated for an entire year.

It's easy to order gift memberships by phone with your Visa or Mastercard—just call 952-443-1440 or 952-443-1438. We will be happy to send the gift to you, to present in person, or send the gift directly to the recipient with a personalized card from you.

*Call the Membership Office today!*

## MARCH & APRIL GIFT SHOP FEATURE

### All-in-one guide for northern-tier gardeners *Growing Shrubs and Small Trees In Cold Climates*

BY HRC HORTICULTURIST NANCY ROSE

- 750-plus cool-climate varieties
- Easy-to-use plant selection charts
- Trees and shrubs with edible fruits
- Popular new cultivars and multi-season shrubs and trees
- Pruning guidance, and more!

Available in hard cover for \$49.95.

*If you have GENTLY USED BOOKS to donate to Andersen Library's fall book sale, you may drop them off during normal business hours. Please contact a librarian for assistance.*



Minnesota Landscape  
ARBORETUM

## FOUNDATION

3675 Arboretum Drive  
P.O. Box 39  
Chanhassen, MN 55317

Address Service Requested

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