



# LANDIS ARBORETUM

T H E N E W S L E T T E R

Esperance, New York

SPRING 2005

VOLUME 24, NO. 2

## SPRING PLANT SALE

SATURDAY, MAY 14 AND SUNDAY, MAY 15, 10AM TO 4PM

Preparations for the 33rd Spring Plant Sale are well underway. This will be the Arboretum's largest fund-raiser, with proceeds providing maintenance and property improvements. The sale provides an opportunity for you to help the Arboretum and acquire beautiful and unusual plants, shrubs, and trees for your gardens. Admission and parking are free.

For early May, the *Old Farmer's Almanac* predicts warm and sunny weather, then turning cooler and showers. Regardless of weather, the sale will go on as scheduled: Saturday, May 14, and Sunday, May 15 from 10 am to 4 pm. No sales will be made before these dates except for the members-only "Pick of the Pots" Preview Party, which is our way of saying "thank you" to all who support the Landis Arboretum through membership. **Call 518-875-6935 for information.**

—Fred Breglia, Plant Sale Chairman

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**...we have carefully selected the species and varieties to ensure that they are strong growers that can handle temperatures well below zero and can thrive in our relatively short growing season.**



### About the Plants

by Jeff Schworm and Scott Trees

This year the Landis Arboretum Plant Sale's theme is—  
**Your Grandmother's Garden**

We frequently talk and write about old fashioned plants, heirloom roses, perennial favorites, and trees that stand the test of time. Memories of gardens from our childhood really excite our passion. When people browse through the hundreds of plants we offer each year at our sale, the most common questions directed to our on-site experts are about identifying plants remembered from a time long gone. We gardeners often try to honor these memories by searching for plants that connect us with our past, even when it means throwing caution to the wind. How many times have we all irrationally fallen in love with a plant that we know has a well documented history of being a weak grower or a pest magnet, or, even worse, of being unable to survive the harsh winters in Upstate New York, simply because we grew up with the plant?

The 2005 Plant Procurement Committee at Landis Arboretum has arranged to have a variety of plants at the Spring Sale that evoke memories of our parents' and grandparents' gardens. Most important, we have carefully selected the species and varieties to ensure that they are strong growers that can handle temperatures well below zero and can thrive in our relatively short growing season. **Our featured plants—**

—continued on page 2.

### About the Sale

#### Plant Donations

If you are donating plants for the sale, make sure they are "sale ready" and clearly labeled; we will do the pricing. If you have plants you wish to donate, please call the office to make arrangements to drop them off.

#### Plant Consignments

In addition to donations, the Arboretum grows some plants for the sale (see Fred Breglia's article on page 3 for more information). Many more are purchased from plant growers. For a list of featured plants, shrubs, and trees, see page 2.

#### Volunteers.

• It takes many hands to orchestrate the plant sale. Well in excess of 1,500 hours of volunteers time are needed. An event of this size takes major effort by many members on a variety of activities: some heavy, some smaller, some in the week preceding or following and many on the days of the sale. If you can spare four hours or a day (or days), please contact our volunteer coordinator, Gloria VanDuyne at **(518) 875-6935**. With many needs and activities, one can be found for you.

**For a list of events and information about the plant sale, see page 4.**



Viburnum, a featured plant

THE LANDIS ARBORETUM NEWSLETTER is published quarterly for its members. The Arboretum's mission is to foster the appreciation of trees and other plants and their importance in our environment.

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The Arboretum is located one and one-half miles north of Route 20 in Esperance. Follow the signs from the village to Lape Road. The Arboretum is one-quarter mile straight ahead. Visit our website for more information and directions.

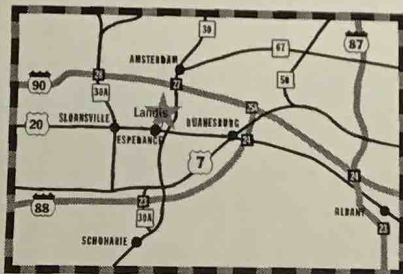


Photo of Gloria by Fred Breglia.



# FROM THE GARDEN

Gloria Van Duyne, *Executive Director*

## Funding news

I am pleased to announce a \$5,000 grant from the New York Power Authority, which has been very supportive of Landis. NYPA's generosity is very much appreciated. The visitors' center in Blenheim-Gilboa has a lot of fun and interesting exhibits and events. For more information, go to their website at [www.nypa.gov](http://www.nypa.gov).

Many thanks to the Schoharie United Presbyterian Church for donating the proceeds from their March 19 concert, part of their Helping Hands series from which they donate to not-for-profit organizations within Schoharie County. Landis volunteers provided refreshments, and we took home a check for \$500.

We have been awarded a \$5,122 grant from the New York State Zoos, Botanic Gardens and Aquariums program. This grant will go toward

the horticulturist's salary. The local WalMart Distribution Center has given us \$500 toward the cost of our Family Programs.

In addition, we are due to receive \$1,000 from Schoharie County and \$500 from the Town of Esperance.

An innovative approach to giving is the Volunteer Involvement Program (VIP) at ExxonMobile. My cousin, Fran Sanchez, is a territory rep for ExxonMobile in New Jersey. Fran is aware of the good work we do and wants to help us. Considering the length of commute, it is difficult for her to donate her time on the Arboretum grounds, and she is not able to give as much financially as she would like. Where there is a will, however, there is a way. Through VIP, Fran donates at least 20 hours per quarter transferring old articles into electronic format and performing other tasks that can be done via email, fax, and post. For each quarter, ExxonMobile will send us a check for \$500.

## Members Only Pick-of-the-Pots Preview Party

**B**ecause of the limited availability of many plants, you improve your chances to get the ones you want by attending the Pick-of-the-Pots Preview Party. This is a benefit of membership. Nonmembers are invited to join the Arboretum and make a reservation to attend.

Members are invited to attend the Preview Party the Friday evening prior to the sale opening to the public for a cost of \$15. A complimentary buffet dinner (5:30-7:30) is available to the first 150 people who register with payment by Monday, May 9. \$15 tickets to the Preview Party (without dinner) will continue to be available through Friday, May 13. **Reservations for the Preview Party are required. Call 875-6935 for information.**

**About the Plants**—*continued from page 1.* magnolias (yes, they will grow in Upstate New York), viburnums (Michael Dirr has written that "a garden without a viburnum is akin to life without music and art"), and roses (be sure to check out a recipe for rose hip jam). In addition, we will have *clethra alnifolia* (summersweet), a broad collection of evergreen and deciduous hollies, rhododendrons, mountain laurel, and climbers—honeysuckles, clematis, and other hardy vines. We will have literally hundreds of different plants from which to choose, and the plant sale will be a delight for both novice and expert gardeners alike.

At the same time, we hope this year's event, which is the weekend after Mother's Day, will allow us to reflect on the trees and gardens from our past and perhaps find a plant to take home that helps us keep these memories alive.

Our plant experts will be on hand all weekend to answer your questions, and to provide suggestions and advice on plant selection, site requirements, and proper planting and care techniques. We look forward to seeing you in May, if not before.

Contact the office at 875-6935 or [landis@midtel.net](mailto:landis@midtel.net) for more information. We look forward to seeing you there!



# COLLECTIONS NEWS

**Fred Breglia, Head of Horticulture and Operations**

This winter was easy on the plant specimens of Landis Arboretum. We didn't lose a single tree to storms and suffered only a few broken branches. The Great Oak still stands guard atop its home on the hill overlooking the Schoharie Valley. Despite some severe damage a few years ago, the old oak is still a fairly healthy specimen and didn't even lose a branch this year — "Knock on wood."

The swollen buds on all of our specimens, as well as bluebird and robin sightings, were the first signs of spring at Landis. Next to awaken were the blooms on the Chinese witch-hazel. Adding color to the landscape, the early spring bulbs in our perennial gardens joined in: snowdrops, winter aconite, scilla, and crocus.

Unlike the plants, the staff of Landis did not have a dormant season at all. In fact, this year is already a very exciting and busy one for all of us. Here are just a few updates.

### New Plant Sale chair

For the first time since my hire in 1979 as Head of Horticulture and Operations for Landis Arboretum, I am chairing the Spring and Fall Plant Sales. Since our plant sales have grown bigger and bigger every year,

staff and trustees have been getting more involved with the event. In order to provide some consistency from year to year and to help prevent volunteer burnout, I am now chairing this very important fundraising event.

The theme of this year's plant sale is "Your Grandmother's Garden." With this idea in mind, I have been very busy cloning many of Fred Lape's specimen trees and shrubs to make them available at our Spring Sale. See the box below for the list of plants.

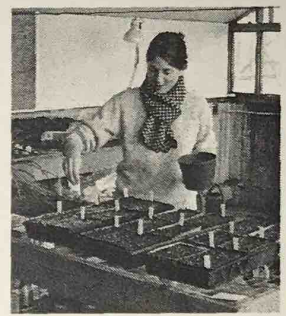
In addition, we have also started a limited variety of perennial, biennials, and a few annuals. Special thanks to Erin McKenna, (right) SUNY Cobleskill student and Landis volunteer, for donating the seeds and helping me start them.

With the help of volunteer Dan Palemire (photo, far right) and some donated equipment from the SUNY Cobleskill, we have added a fully automated misting system and heat bench to our propagation room, making it more usable than ever before for starting cuttings and seeds.

### Plant Donations Wanted

I would like to emphasize the importance of donating plants to our Spring Plant Sale. Your plant donations are very important to Landis. They help us raise the needed

monies to continue to operate and improve your arboretum. We are hoping to get a large number of donated plants this year, so we will take donations starting May 1. Donated plants must be labeled and ready for sale. We will do the pricing. If you have plants you wish to donate, please call the office to make arrangements to drop them off.



Photos by Fred Breglia

### Labels, views, natives, trails

More activities are planned for the grounds this year, including labeling native trees and shrubs along the woodland trail. More native plants are being installed along the willow pond trail. More photo-metal tree signs will be added to existing collections and many newly planted trees. The Van Loveland Perennial Garden will also receive photo-metal identification tags this year. These tags greatly add to the visitor's informal learning during a visit to Landis.

Remember to visit or re-visit the many changes that have been implemented over this past year, especially the recently opened vistas and views that are now covered with grass and wildflowers. Be sure to check out the new wetland, now filled with water, on the way to the Great Oak.

Check out the many newly planted trees, many of which are in full bloom. Walk the many new trails throughout the Arboretum — for example, the Bass Woodland. Be sure to notice the improvements to the older existing trails — the new bridges, culverts, and ditches. These trail improvements provide you with easy to walk on trails, eliminating many wet areas along your way. Follow the newly installed directional signs to help you navigate around our site. Look at the new trail head signs that show you where your journey begins and ends.

As always, here is a quotation to ponder: "If you're not forest, then you're against us."

## On Sale from our Propagation Room

The following plants are clones from Fred Lape specimens. They are from cuttings that were rooted and grown in our propagation room and will be available for sale at our Spring Plant Sale this year.

- Yellow Twig Dogwood—*Cornus sericea* 'Flaviramea'
- Border Forsythia—*Forsythia x intermedia*
- Laurel Willow—*Salix petandra*
- Corkscrew Willow—*Salix matsudana* 'Tortuosa'
- Golden Weeping Willow—*Salix alba* 'Tristis'
- Red Leaf Rose—*Rosa rubrafolia*
- Red Twig Dogwood—*Cornus sericea*
- Shirobana Spirea—*Spiraea japonica* 'Shirobana'
- Gold Flame Spirea—*Spiraea x bumalda* 'Gold Flame'

- False Indigo—*Baptisia australis*
- Superba Bellflower—*Campanula glomerata* 'Superba' ('Dahurica')
- Bleeding Heart—*Dicentra spectabilis* 'Old Fashion Red'
- Blue German Iris—*Iris pallida pallida* 'Grape Jelly'
- Shasta Daisy—*Leucanthemum superblum* 'Becky'
- Oriental poppy—*Papaver orientale* 'Brilliant'
- Summer Garden phlox—*Phlox paniculata* 'Assorted Varieties'
- Cowslip Primrose—*Primula veris*
- Ostrich Fern—*Matteuccia struthiopteris*
- Cushion Spurge—*Euphorbia polychroma*

### Additional Selection of Perennials

- Columbine—*Aquilegia chrysantha* 'Yellow Queen'
- Assorted Colors of Columbine —*A. vulgaris*

## SCHEDULE OF PLANT SALE EVENTS

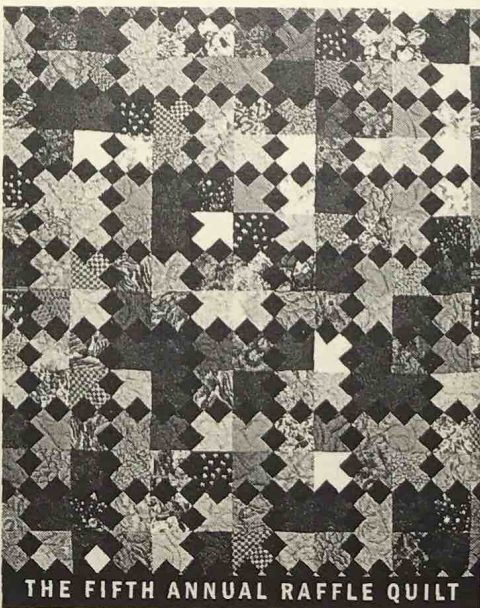
IN ADDITION TO OVER 6,000 PLANTS TO CHOOSE FROM, OTHER HIGHLIGHTS AT OUR SPRING PLANT SALE INCLUDE:

- **Pick of the Pots.** Because of the limited availability of many plants, you improve your chances to get the ones you want by attending the **Pick-of-the-Pots Preview Party** on Friday evening at 5pm. A complimentary buffet dinner (5:30–7:30pm) is available to the first 150 people who register with payment, by Monday, May 9. Reservations and \$15 tickets to the Preview Party (without dinner) will be available through Friday, May 13.
- **Saturday Bake Sale** with unusual and extremely tasty home baked cookies, cakes, pies and breads. Proceeds go toward Landis's perennial gardens.
- **Sunday Bake Sale** will be hosted by Boy Scout Troop 501.
- **Book Sale** (undercover in the Barn) with hundreds of used books of all topics including horticulture, nature & science, cooking, philosophy, self-help, sports, mystery, science fiction, and more.
- **The Acorn Gift Shop** will open May 7. Some new and popular items include polo and sweatshirts with our logo, animal tracks and scat do-rags, animal puppets, nature games, and books.
- **Our Fifth Annual Raffle Quilt** will be on display. Tickets for this year's raffle quilt are now on sale. This year, only 300 tickets have been printed at \$10 each. We plan to sell all 300 and raise \$3,000, which will be the most we've ever raised from a quilt raffle. The quilt was donated by Gloria Van Duyne. It is a scrap quilt of black and bright colors. It measures 64" x 80" and is 100% cotton. The drawing will take place in December 2005.
- **Raffle.** Garden-related items will be raffled at the plant sale, including a five-foot plant stand, donated by Pattersonville Furniture, from Pattersonville, NY (Rte. 5S between Amsterdam and Schenectady.)
- **Lunch.** Food and beverages will be for sale and are provided by Miller's BBQ Catering, Esperance.

## LOGISTICAL INFORMATION

TO HELP YOU AND OUR VOLUNTEERS:

- **Reservations** are required for the Members Only Preview Party.
- **Our plant experts** will be available all weekend to answer your questions, and to provide suggestions and advice on plant selection, site requirements, and proper planting and care techniques. We cannot take orders or set plants aside prior to the sale.
- **Restrooms and picnic tables** are available for your convenience.
- **Cars** should park in our upper parking area next to the Meeting House when lower parking lot is full.
- **Limited handicapped** parking and drop-off space is available. Please inform the parking attendants of your needs.
- **Starting times** and dates for the sale are firm. Purchases may not be made prior to the sale.
- **Dogs** are not permitted at the Plant Sale. (Dogs should never be left in cars on warm days because temperatures rise quickly inside vehicles.)
- **Please have your sales slip** available to be hole-punched as you leave. Have your membership card handy for quicker checkout.
- **All purchased plants** must be removed by 4pm, Sunday. Landis does not make deliveries and is not responsible for items left beyond 4pm Sunday.



THE FIFTH ANNUAL RAFFLE QUILT

## ACORN GIFT SHOP

by Barbara Hunt

**O**ur grand opening will be May 7. The office and the shop are generally open weekdays 9am to 4pm, Saturday noon to 5pm, and Sunday 1 to 5 pm.

### Gift Items

We will have lots of new items for children and adults, including mud gloves, T-shirts, finger puppets, specialty soaps, and books. There will be a SALE during the Spring Plant Sale in order to make room for our new merchandise. Stop by, browse, buy, and say hello. New this year are fun T's for those who like to promote tourism or who just like cows. Under a fine looking Holstein the shirt reads, "Schoharie Cownty, Moo York."

### New this year

We will host presentations on the last Sundays of June, July, and August from 2–3 pm.

**June 26.** Diane Jankowski will demonstrate how she paints rocks to look like animals.

**July 31.** Shawn Shultz, R.H., will demonstrate how to make your own medicinal teas.

**August 28.** The McGillicuddys will show how they make their natural soap.

### Volunteers needed

The Acorn Gift Shop needs volunteers to operate the shop on weekends. Weekday volunteers are also needed for the shop and for the office when the shop is slow. We are also seeking someone with merchandising experience. Contact the Arboretum or phone Barbara Hunt at **762-8390** or July Lott at **377-0262** if you are available.

NEW • ACORN SHOP • NEW

**N**oted botanical artist and longtime Landis supporter **Anne Jaster** has agreed to have her illustrations reproduced on T-shirts to help raise funds for us. Each printing will be a limited quantity.

Planning and design are still in the works, with the first design in June.

# ROSES ROSES ROSES ROSES

Nick Zabawsky



William Baffin Rose. Photo courtesy of Ashdown Roses, © www.ashdownroses.com

## PART I HISTORY

**R**OSSES have existed on the planet much longer than mankind and have been cultivated for thousands of years. Historical records indicate roses were very popular in ancient China, Rome, and Persia. Many important historical events are linked to roses. They were present in abundance at every respectable ancient Roman banquet, as well as at the less respectable orgies. Nets strung across the ceiling would suspend thousands of roses or, more commonly, rose petals. At the height of the party, the nets would be released, showering the revelers in petals often several feet high. The Romans really knew how to engage in excess!

Roses were an important player in the Napoleonic wars. Napoleon's wife, Empress Josephine, was, at the time, the world's leading grower and hybridizer of roses, with a staff of over 100 gardeners at her disposal. She needed roses from China to continue her efforts because China roses had the desirable quality of repeat blooming but were not hardy in Europe. She wanted to cross China roses with the more hardy local stock to create hardy, repeat blooming roses, but she had a couple of problems. Her first problem was that the English, not the French, had trading relationships with China, and any roses from China would have to be delivered on English ships. Her second problem was that since England and France were at war, no British ship could get to a French port. Empress Josephine informed her husband Napoleon that the silly war with England would have to be put on hold so she could get her China roses, and that is exactly what happened. A truce was called, English ships sailed into a French port under protection of the French navy. Not until word was received that the British ships had safely returned to their homeport was the war allowed to resume. Napoleon may have con-



quered a goodly portion of Europe at the height of his empire, but his wife obviously called the shots at home.

And what student of British history could forget the War of the Roses? A white rose, the 'Alba Maxima', symbolized the House of York, and a red rose, the *Rosa gallica var officinalis*, symbolized the House of Lancaster. Legend has it that the two roses were crossed after the war to produce the York and Lancaster, a pink damask rose, as a symbol of peace. The legend cannot be true because one cannot cross a gallica and an alba and get a damask. So much for legends!

## PART II GENEALOGY

**R**OSSES are one of the most misunderstood of plants, probably because the average gardener has been exposed to such a limited selection of roses. The typical plant retail center offers primarily hybrid tea roses and perhaps floribunda roses, their close relatives, and little else. These plants tend to be small, have limited cold hardiness, and demand regular spraying, watering, and fertilizing to thrive. As a result, roses have unfairly earned the reputation of being finicky high maintenance plants. However, hybrid teas are the tip of the proverbial iceberg when it comes to the genus *Rosa*. There are many species of roses that cannot only survive, but thrive, in an incredible range of growing conditions.

The genus *Rosa* is so vast that it is almost impossible to comprehend. There are over 30,000 species and cultivars of roses, making *Rosa* one of the most extensive genera in the plant kingdom. Roses are native to every continent except Antarctica. They have adapted to temperate woodlands, open fields, swamps, sand dunes, hot arid summers, tropical humid-

ity, and bitterly frigid winters. Roses have many forms, from ground covers a few inches high, to shrubs, to climbers up to 50 feet tall.

The world's leading rose societies recognize three major classifications of roses:

- Wild roses (species and naturally occurring hybrids)
- Old garden roses (origin—1867 and before)
- Modern garden roses

Within each of these three major classifications there are thousands of species and cultivars.

Roses are very promiscuous and cross very readily with each other, producing a dizzying array of hybrids, most of which are fertile. Because of the huge number of cultivars and the considerable hybridization over the years, the standard genus and species designation is grossly inadequate to describe each rose. Often roses, particularly older roses, are referred to by genus and species, with a cultivar name. For instance, the white form of *Rosa rugosa* is labeled *Rosa rugosa* 'Alba'. In many instances, a rose's genealogy is so convoluted that even a species cannot be accurately assigned. For most modern complex hybrids, a code name and a cultivar name is assigned to a rose. The originator of the rose gives the code name using three letters unique to the grower. For example, a rose developed by the House of Kordes might be called KORmalda 'Esmeralda'. The "KOR" prefix is given to all roses developed by the House of Kordes and the grower gives each rose a unique cultivar name. In another example, all roses developed by David Austin carry the "AUS" prefix, as in AUSles 'Leander.'

Within the Old Garden and Modern Garden roses are dozens of subclassifications of roses that are suitable for the landscape. Ten of the more common are as follows:

1. Damask—2' to 5' tall; disease resistant; attractive blue green foliage; semi-double to double bloom; very fragrant; drought tolerant; mostly once-bloom-

—continued on pages 6 and 7

ing; tolerates poor soils; color range—whites and pinks. Hardy to USDA Zone 4.

2. Tea & Hybrid Tea—3' to 4' tall; most are very disease and insect prone; single to double blooms; spindly plants with foliage prone to leaf drop; extremely wide range of colors; repeat bloom; variable fragrance; demands good soil. Hardy to USDA Zone 6.

3. Rugosa—1' to 7' tall; extremely disease resistant; mid-green rugosa foliage; single to double bloom; variable fragrance; extremely drought tolerant; the most salt tolerant; repeat blooming; color range—whites and pinks. Hardy to Zone 6.

4. Centifolia—4' to 7' tall; moderately disease resistant; very double blooms; full bushy plants with attractive foliage; colors primarily in the white and pink range; mostly once-blooming; very fragrant. Hardy to USDA Zone 5.

5. Alba—4' to 6' tall; extremely disease resistant; deep green foliage; single to double bloom; fragrant; very drought tolerant; once-blooming; tolerates poor soils; color range—whites and light pinks. Hardy to USDA Zone 3+.

6. English Rose—3' to 6' tall; not very disease resistant; variable foliage; spindly plants; single to double bloom; very fragrant; limited drought tolerance; repeat bloom; needs rich soils; color range—highly variable. Hardy to USDA Zone 5+.

7. Portland—3' to 4' tall; disease resistant; very double blooms; bushy plants with attractive foliage; colors from purple, blood red, deep red, white and pink; repeat blooming; very fragrant; magnificent colors; excellent rose for mixed borders. Hardy to USDA Zone 4+.

8. Polyantha—3' to 6' tall; fairly disease resistant; variable foliage; single to double bloom; limited fragrance; limited drought tolerance; profuse repeat bloom; color range—highly variable. Hardy to USDA Zone 4+.

9. Moss—3' to 6' tall; moderately disease resistant; very double blooms; full bushy plants with attractive foliage; colors range from deep purple to pink to white; most are once-blooming; very fragrant; beautiful mossier of bud (calyx). Hardy to USDA Zone 5 (4+).

10. Bourbon—4'-8' tall; somewhat susceptible to disease, especially black spot; very double bloom; colors range from white to pink and rose; repeat bloom; among the most fragrant. Marginally hardy to USDA Zone 5.

### PART III CULTURE

#### Soil

Most roses like heavy moist soil. Many even do well in heavy clay, but good drainage is desirable. Most modern cultivars, particularly those with tea parentage, require highly fertile soil. Rugosa roses tolerate sandy dry soils better than other classes. Many Old Garden roses, particularly damasks and albas, are highly tolerant of poor soils. Some roses, such as *Rosa palustris*, grow well in swampy conditions.

#### Light

Most roses do best in full sun. Most modern cultivars demand full sun or at least 6 hours of direct sun. Some of the species, such as *Rosa woodsii*, will perform in full shade. Many classes of roses, particularly old garden roses, tolerate partial shade well, particularly the albas, some of the Bourbons, the hybrid musks, and damasks.

#### Other Environmental Conditions

Pollution, particularly salt from sidewalks and road sanding operations, is a major factor in selecting roses. Rugosa roses will tolerate salt spray and survive in locations that would kill most other roses. Therefore, they are best suited to roadside planting.

#### Hardiness

Roses have a wide range of hardiness, which is highly dependent upon bloodline. Of the thousands of cultivars, approximately half are not hardy in USDA Zone 4 to Zone 5 climate. Unfortunately, many of the roses sold by conventional sources are not hardy in the area in which they are sold, necessitating special efforts to protect them from winter's wrath. Hybrids with rugosa, alba, damask, and Scotch briar blood are generally very hardy. Roses with tea or China blood are much less hardy.

#### Planting

Roses come either bare root or potted. Either is satisfactory, as long as the root system is never allowed to dry out. Bare root offers the advantage of a larger root system and lower shipping and handling costs. Bare root roses should

be planted when dormant. If the plant is not dormant, most of the foliage should be pruned. Don't worry: roses are very good at producing new foliage. The best time to plant roses is in the late fall, which gives the root system time to become established before facing the heat and drought of the following summer. Dig a large hole—two feet wide and two feet deep is best—in preparation for planting. Mix in leaf compost, peat moss, or other organic material. Mulch well. Soil pH should be about neutral, but roses seem to be widely adaptable if the hole is properly prepared with an organic soil additives such as compost, peat moss, or organic mulch. Water well. Roses like lots of water. Even drought tolerant roses need water until they become established. One missing element that commonly causes problems with roses is magnesium. Sprinkling the soil around each bush with Epsom salts every couple of years is a quick and easy treatment.

#### Insects and Diseases

Many insects and diseases attack roses. However, as with hardiness and other characteristics, susceptibility is highly dependent on the bloodline of the rose. Damasks, rugosas, albas, and Scotch briars are almost immune to most diseases and insects. Many modern roses, teas, and Chinas are highly susceptible to both. Old garden roses such as centifolias, mosses, Bourbons, and Portlands fall within the middle of the range. Common insects and animals that affect roses include aphids, sawflies, thrips, deer, rabbits, cane borers, Japanese beetles, and various caterpillars. Common diseases include black spot, crown gall, powdery mildew, rust, mosaic virus, and stem canker. My personal philosophy is simple: if a rose is highly susceptible to insects and disease, I don't grow it. I believe that environmentally sensitive gardeners should not be dousing the landscape with insecticides and fungicides. With the vast array of beautiful naturally resistant roses, there is no need to grow disease magnets. However, it takes a smart consumer to achieve this goal since an extremely high percentage of roses sold in retail outlets are not disease resistant.

#### Propagation

Roses can be propagated by seed, budding, grafting, cutting, layering, division, and tissue culture. In the industry, a majority of roses offered on the market are grafted or budded roses because the rootstock "forces" the bush to a marketable size more quickly than it would on its own roots. There are many advantages to own root roses, including less incidence of rose virus, longer plant life, more cold resistance, and no suckering from rootstock. I highly recommend

own root roses in our climate. If a severe winter kills a rose bush to the ground, it comes back the following spring from the root. Once the graft on a grafted rose is killed by the cold, the se is lost. During a severe winter a few years ago, all my grafted David Austin roses died. The own root Austin roses came back from ground level and were blooming by July.

### References

An extensive number of books have been written on the subject of roses. I suggest starting with books by the world's two leading authorities on the subject. These references are *The Graham Stuart Thomas Rose Book* by G.S. Thomas, published in 1994, and *Classic Roses*, by Peter Beales, published in 1997. Thomas's book will have broad appeal to all who are interested in roses, while Beales' book is a very scholarly work, with primary appeal to the botanist.

## PART IV MY FAVORITE ROSES

**A**I seek several qualities in a good rose. These qualities include natural disease resistance, cold hardiness, fragrance, and attractive appearance throughout the growing season. That leaves out the commonly grown hybrid teas. Without lots of pampering, hybrid teas drop their leaves by mid-July, leaving bare sticks in the landscape. I also want a plant with lots of canes to produce a substantial display. A bush that produces one or two canes and two or three blossoms at a time just doesn't cut it for me. With that in mind, here are some favorites.

'Quatre Saison'—A 3' tall damask; mildly fragrant deep pink blossoms; blooms in 3 to 4 flushes a year; very disease resistant; and the oldest repeat blooming rose known to Western Civilization. Hardy to USDA Zone 4.

'Awakening'—An 8' to 12' climber; a sport of 'New Dawn'; with very double, fragrant, small flesh colored blossoms; glossy disease resistant leaves; initial bloom is 2 weeks later than most roses and repeats well throughout season. Hardy to USDA Zone 5.

'Queen of Denmark'—A 5' tall alba; with very fragrant light pink blossoms; blooms once a year with bloom period lasting 4 weeks; in my experience, immune to pests and diseases, and tolerant of drought and poor soil. Hardy to USDA Zone 4.

'Madam Hardy'—5' tall damask; with very fragrant double; white blossoms with a green center; blooms once a year with bloom period lasting 4 weeks; disease resistant; very tolerant of drought and poor soils. Hardy to USDA Zone 4.

'Sir Thomas Lipton'—A rugosa hybrid; can be trained as a 5' to 6' shrub or an 8' to 10' climber; very shade tolerant; blooms early and often; very fragrant semi-double blossoms; totally disease resistant; tolerates drought and poor soils. Hardy to USDA Zone 4.

'Felicite Parmentier'—A 2' tall damask, with small very double blossoms that open pink and fade to antique white; blooms only once a year, and, in my opinion, has the most wonderful fragrance in the entire plant kingdom; has the unusual habit of sending out one or two long underground runners each year, which pop up as a new bush as much as 6' from the parent plant; tolerates poor growing conditions. Hardy to USDA Zone 4.

'William Baffin'—A 12' to 15' climber developed by the Canadian Ministry of Agriculture, which has done a tremendous job of developing roses that are cold hardy, disease resistant, and capable of producing a lavish display—this rose is perhaps their flagship rose; produces thousands (yes, thousands) of semi-double pink blossoms with white centers and pronounced yellow stamens; not a lot of fragrance, but good repeat bloom and exceptional vigor. This one is hardy to USDA Zone 2.

'Henry Kelsey'—Another great 12' to 15' climber from the Canadian Ministry of Agriculture, another flagship rose; last year, from June to October, my Henry Kelsey produced as estimated 3,200 deep red semi-double blossoms; totally disease resistant; pleasant subtle fragrance. Hardy to USDA Zone 3.

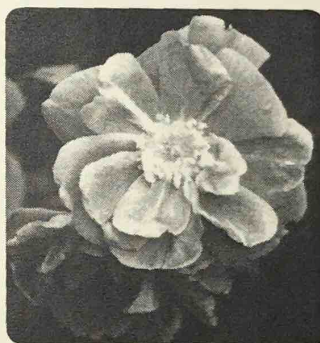
'Rose de Rescht'—A 3' tall Portland; with deep purplish blood-red blossoms with an intoxicating fragrance—if pure decadence has a color and a fragrance, this is it; quite shade tolerant; repeats in flushes of bloom throughout the season. Hardy to zone 4+.

'Madame Issac Perrere'—A Bourbon that can be grown as a 5' shrub or a 7' climber (I prefer it as a climber, since its canes are too limber to hold up well as a shrub); huge, very double raspberry colored blossoms, with an incredible fragrance—many consider its fragrance to be the best of all roses, though I think 'Felicite Parmentier' wins out in a close contest; not as disease resistant as my other favorites, but I can be forgiving with such a wonderful fragrance and display; repeat blooms. Hardy to USDA Zone 5.

'Fantin Latour'—One of the best of the centifolias; a 6' shrub, up to 10' across, with a display in mid-June that is in a league by itself; hundreds of large, pink, fully double blossoms open at once; fairly disease resistant; blooms once a year, but bloom period lasts up to 6 weeks. Hardy to USDA Zone 5.

'Comtesse de Maurinais'—A 5' tall moss rose, named after a lover of Marie Antoinette; produces lots of very fragrant double blossoms, which are light pink in bud and turn to white the moment they open; the

mosses get their name from the hairy covering on the calyx of the rose bud, which has the appearance of moss; this moss itself is extremely fragrant, and brushing one's hand over the bud will leave behind a magnificent balsam-like fragrance; blooms once a year for 4 to 5 weeks. Hardy to USDA Zone 5.



**William Baffin Rose**  
Photo courtesy of Ashdown  
Roses, ©. [www.ashdownroses.com](http://www.ashdownroses.com)

'William Lobb'—An 8' to 10' tall moss, which can be grown as a shrub or a climber; flowers are an intense deep purple, and the moss is quite fragrant as well; train on a pillar or give it lots of room because the canes shoot up fast; once-blooming. Hardy to USDA Zone 5.

'Stanwell Perpetual'—A Scotch briar (*Rosa pimpinellifolia*), which grows into a 4' to 5' shrub with very small distinctive leaves; totally disease and insect resistant in my experience; blooms are very fragrant, open to a light shade of pink and fade to white; blooms constantly from June to October; tolerates more shade than most roses (I had it growing under the canopy of a pine tree.) Hardy to USDA Zone 4.

## WISH LIST

### Equipment Wish List

We are looking for the following items (or estimated dollar amount to purchase items).

- Bird feeders and seed
- 20 pairs of snowshoes
- Projector for PowerPoint presentations
- Laptop computer
- Picnic tables and benches (\$250)
- DR brush mower (\$2500)
- Hardback rakes, shovels, loppers, and mulch fork (\$200)
- Trowels and other small gardening tools
- Troy Built hand cart

And always, the large tractor—

- A John Deere 790 (or machine of equal quality) 4wd, 30hp, with backhoe and loader (\$20,000)
- Snow blower

### Office Supplies

- File folders
- 8½ x 11 lined pads
- Hanging files
- Copier paper

### Project Wish List

We are looking for volunteers familiar with the following tasks (or equivalent dollar amount to complete these projects).

- Mechanic to work on our pickup trucks
- Stone walls around the greenhouse and walls around perennial garden need rebuilding. (\$800)
- Quilters for next year's raffle quilt

### Donations

- \$1000 for a new entrance sign
- \$1000 (ea.) for printing new and updated brochures

### Education Wish List

- Animal skins in good condition
- Feathers and nests from wild birds
- Insect collections
- Local rocks and fossils
- Tree identification books
- Leaf identification books
- White enamel pans
- Tall rubber boots
- Magnifying glasses
- Walkie-talkies
- Environmental science tools

## HORTICULTURIST'S CORNER

by Fred Breglia, Head of Horticulture and Operations

Spring is here. It's time for some tips to get you ready for the upcoming season.

### Clean-up

- Make sure you remove all winter coverings, such as tree wrap, burlap screens, and winter mulch, from your plants

**Fertilize** (Spring is one of the best times to apply fertilizers)

- Remember root uptake is optimal prior to the spring flush of growth. A good rule of thumb is to apply when the buds just begin to swell but before they open.
- Uncover all perennial beds and fertilize.
- If you missed this important time for fertilizer application, you will have another opportunity when the spring growth has fully expanded and begins to harden off to thicker leaves and stems. A good rule of thumb is to apply when growth seems to have stopped or dramatically slowed. The roots are now absorbing nutrients needed to put on the summer's growth.
- Remove spent blossoms from tulips, daffodils, and hyacinths in order to direct energy for next year's bloom.

### Plant a tree

- Remember when planting balled and burlap trees, you should untie the burlap from around the tree trunk, cut off the top half or more of the wire basket, and cut and/or fold down the burlap from the tree's root ball. Synthetic burlap must be removed completely.
- Staking is not needed in most cases. In fact, not staking actually speeds up root growth and establishment.
- Do not prune the newly planted tree the first year except to train a new leader and remove broken branches.
- Circling roots on container grown trees should be roughed up on the surface of the root ball, which helps to reduce or eliminate girdling roots later on in the tree's life.
- Fertilizing the trees the first year is not recommended.
- When planting, make sure you identify the root flare, the area where the tree's trunk meets the roots. This area should be level with or slightly above ground level.
- Always dig the hole two times as wide as the root ball, but never any deeper.
- When backfilling the hole with soil, use as much of the soil that you excavated from the hole as possible

and avoid amending the soil backfill too much. In fact, it is recommended that you amend the soil only in very sandy conditions with as much organic materials (peat moss, e.g.) as backfill in order to help retain moisture.

### More advice

- For vegetable gardens, plant lettuce, beets, and carrot seeds early in the month of May, and squash, beans, and corn seeds later in the month.
  - Weed, weed, weed to keep on top of those pesky nutrient-robbing competitors.
  - Put cages on your peonies.
  - Harden off seedlings that have been started indoors and transplant them into the garden during the fourth week of May.
  - Turn over your compost pile.
  - Mulch your perennial beds with organic bark mulch, which helps to control weeds and conserve needed moisture.
  - Put a rain barrel under your gutter to catch and recycle precious H<sub>2</sub>O for use in watering your plants.
  - Prune spring flowering shrubs such as lilacs and forsythia immediately after they finish blooming.
  - Edge your garden beds to keep weeds and grass from creeping in from your surrounding lawn.
  - Never remove more than 1/3 of leaf tissue when mowing your lawn to prevent browning later in the season.
  - Monitor woody and herbaceous plants for signs of insect and disease damage. Early detection is the key to keeping plants healthy and stress-free.
  - Mulch your trees and shrubs—2+ inches of mulch is best. Remember to keep mulch away from your plants stems or trunks.
  - Move houseplants outside on cloudy days.
- ### For yourself
- Check for public gardens to visit every time you visit someplace new.
  - Protect yourself from the sun. Even spring sun can do skin damage, so wearing a sunscreen with a SPF rating of at least 30 is recommended.
  - Buy your mom some flowers. Buy dad a plant for Father's Day too.
  - Shop at the Landis Arboretum Spring Plant Sale on May 14 and 15. We will have hundreds of varieties of hard-to-find, unusual trees, shrubs, and perennials available. This event not only gives you the opportunity to obtain these plants for your yard but also helps support your arboretum.



## THANK YOU

TO OUR CORPORATE MEMBERS  
FOR THEIR GENEROSITY.

American Hotel,  
Doug Plummer & Garth Roberts  
Environmental Clearinghouse of  
Schenectady  
Glenbrook Farm, Viktoria Serafin  
Gardener's Workshop  
Keyserkill Studios, Inc.,  
Tressa Vellozzi  
Plantscapes Country Gardens  
Temper Corp, John Rode  
Young Home Heating Fuels,  
Robert Young

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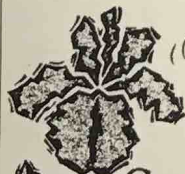
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Walck  
Garden Design

Installation  
& Maintenance  
with Ecological  
Emphasis

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## SPRING/SUMMER SPECIAL EVENTS AND WORKSHOPS

### Tree and Bird Tour of Cobleskill

May 19, 6-7:30pm. (Thursday)

See what kinds of interesting birds make their homes in the trees of Cobleskill. Join Fred Breglia and Chris Keefer (birding writer for the *Daily Gazette*) on a tour of the streets of Cobleskill, beginning in Center Park (corner of Main and Grand Streets). Finish at Main Street Books (across W. Main St. from the park) for refreshments. Bring binoculars. **Free. Donations are appreciated.**

### Bus Trip to Wave Hill

May 26, 7:30am-7pm (Thursday)

Color, collections, texture, shape and form are surprisingly and masterfully abundant in the New York City. Wave Hill Public Gardens and Cultural Center, located in the Bronx, blooms in every month of the year. It offers flower, herb and wildflower gardens, view of the Hudson River, a conservatory, notable trees, special collections, Alpine House featuring high altitude, vertical growing plants and an aquatic collection that includes tropical and hardy water plants and grasses. Whet your appetite by going to [www.wavehill.org](http://www.wavehill.org), a must-see website. The tour group leaves Wade Tours, 797 Burdeck Street, Rotterdam, at 7:30am. We arrive at Wave Hill at 10am. The bus departs at 4pm and arrives back at Wade tours by 7pm. **Registration and payment deadline is May 19. \$60 Members, \$65 nonmembers includes bus fare and admission.**



### Attracting Bluebirds to your Backyard

June 4, 9am-noon (Saturday)

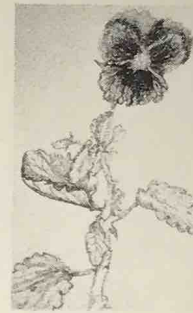
To operate a successful bluebird trail or even just a few boxes, it is important to know the character-

istics of the bluebird and the problems involved in maintaining nest boxes. Join Fred Breglia and Ray Briggs to learn more about bluebird courtship, nesting season, nest building, fledging periods, newest and most productive box styles, and mounting and monitoring the boxes for success. **Registration and payment deadline is Friday, June 3. \$5 individuals, \$10 families.**

### Basic Pruning Workshop

July 9, 9am-noon (Saturday)

This popular hands-on workshop demystifies pruning. Professional arborist Fred Breglia explains when, why, and how to prune and then guides work in the Arboretum's collections. Bring your own pruning tools and gloves. Some equipment will be available or you may purchase quality pruning implements in the Acorn Gift Shop. Class size is limited and begins in the meeting-house. **Registration and payment deadline is Wednesday, July 6. \$25 members, \$30 nonmembers.**



### Botanical Drawing\*

July 9, 16, 23, 30, 9-11:30am  
(Saturdays)

Professional botanical illustrator Tressa Vellozzi teaches students the basics of botanical drawing using pencil, pen, ink and watercolors. Tressa donates botanical illustrations to many not-for-profit organizations and would like to

pass on to others her techniques of observation and enjoyment of plants. Individual attention will be given to all students, regardless of their level of artistic skill. Class size is limited and meets in the library. **Registration and payment deadline is Thursday, July 7. \$40.**

\*This program is made possible with funds from the Decentralization Program, a regrant program of the NYS Council on the Arts administered by the Schoharie Arts Council.

### Advanced Pruning Workshop

July 16, 9am-noon (Saturday)

Fred Breglia leads this hands-on workshop in Landis's collections, giving in-depth instruction throughout. Participants should bring their own pruning tools and gloves. Some equipment will be available. Quality pruning implements are also sold in the Acorn Gift Shop. Class size is limited and begins in the meetinghouse.

**Registration and payment deadline is Wednesday, July 14. \$25 members, \$30 nonmembers.**

### By Dawn's Early Light

July 31, 6-8am (Sunday)

As the morning sun slowly rises over the trees a wealth of animal activity begins. We'll take an early morning hike through the Arboretum and watch the natural world awaken. We'll have hot beverages and bagels waiting for us when we return.

Instructor: Susan Carver, nature educator.

**Registration by Thursday July 28. Free.**

### Insect and Disease Diagnostic Workshop

August 20, 9am-noon (Saturday)

Join Arboretum horticulturist and arborist Fred Breglia on a walk through the Arboretum collections identifying and discussing the insects and diseases that attack many ornamental trees and shrubs. Learn how integrated pest management can help provide solutions. **Registration and payment by Wed., Aug. 20. Members \$20; Nonmembers \$25.**

### For registration and information

call 518-875-6935 or email [landis@midtel.net](mailto:landis@midtel.net). All events take place at the Arboretum unless otherwise noted.

**Pre-payment** is required for all general classes and workshops. For your convenience, payment can be made via Visa or MasterCard. Please use the form on page 11 of this Newsletter.

## GARDEN TOURS

**T**he Arboretum will host garden tours again this year. All Arboretum members will receive a garden tours brochure, that will have all the final information, including driving directions.

**Sunday, June 12, 1-4pm**

### **Nick Zabawsky, Amsterdam**

The sunny and shady areas in Nick's gardens were designed to provide continuous bloom from March through November. The site includes two Second Empire Victorian homes on an acre of land. In sheltered areas, bloom season may begin as early as February 16 with the galanthus (snowdrops) and *Iris reticulata*. Korean mums usually finish out the season, often blooming through the snows of early December.

June is peak bloom time in Nick's gardens, with a variety of his favorite Old Garden Roses, particularly those popular during the Victorian Era, including mosses, centifolias and damasks. There are also a number of climbing roses, including cultivars such as 'America,' 'Awakening,' 'John Davis,' 'John Cabot,' and 'William Baffin.' Other notable plants include a magnificent Ginkgo tree, 50 rose cultivars, 15 lilac cultivars, 40 fern species, 35 hosta cultivars, and a wide variety of other perennials.

**Make a Day of it:** Guy Park Manor off Rte. 5. Historic site, canal locks, picnic area along the Mohawk. Fort Johnson is another historic site just 2 miles away. Johnstown has lots to offer for lunch and dinner: Raindance, Michaels, Niccolinas, and fast food.

**Sunday, July 2, 1-4pm**

### **Keith Lee & Jim Gaughan, Altamont**

Neat as a pin and colorful as a tapestry, this garden offers 9 species of trees, 16 types of shrubs, vines, an extensive collection of perennials and annuals, and a large vegetable garden. Keith is also in the Cornell Cooperative Extension Master Gardener Program.

#### **Make a Day of it:**

Altamont has 3 parks. Angel Park & Orsini Park are located on Main St in the center of the village. Bozenkill Park on Gun Club Rd has nice gardens at the entrance, a hiking trail, a pool and picnic area.

Home Front Café, 192 Main St, breakfast & lunch; Gade Farms, 2479 Western Ave, Annuals, perennials & produce; Indian Ladder Farms, Rt 156

between Altamont & Voorheesville, gifts, bakery, produce, petting zoo; Altamont Orchards, 6654 Dunnsville Rd (Rte. 397), Bakery, annuals, perennials, produce, gifts; Hunerford Market, 186 Main St, breakfast & lunch; Cider House Restaurant, 6700 Dunnsville Rd (Rt 397), lunch & dinner; Helderledge Farms, Picard Rd off Rte. 156 between Altamont & Voorheesville, Garden design, shade plants & perennials.

**Sunday, July 10, 1-4pm**

### **Laurie Meyers,**

### **Pondside Gardens, Duanesburg**

Featuring a wealth of daylilies, ornamental grasses, shrubs and hydrangea, Pondside Gardens exemplifies what can be done in four short years of gardening enthusiasm. In addition to a good selection of perennials, daylilies are featured and will be in full bloom at this time.

#### **Make a Day of it:**

Jonathan's restaurant near the corner of Rtes 20 and 7. Italian/American, great sandwiches, pizza, generous portions. Victory Lap, Rte 7 just west of the village of Duanesburg.

The Landis Arboretum is 10 minutes down the road in Esperance.

The village of Schoharie is also a few minutes west off Rte 7 and has the Old Stone Fort and Museum, Schoharie Farms/The Carrot Barn with produce, gifts and plants; and many shops and restaurants.

**Saturday, July 23, 1-4pm**

### **Albany**

The Landis Arboretum presents a walking tour for which guests park and tour 3 gardens in the Buckingham Pond neighborhood of Albany, not far from St. Peters Hospital and College of St. Rose. Neighbors **Jason Schultz, Judith Adrezin** and **Alma Weiner** open their backyards for us.

**Jason Schultz** has used his experience as a professional landscape designer to create a wonderful example of a woodland garden setting in a small space. Some of the highlights include 20 species of native perennials, a collection of ligularias, cimicifugas, hostas, ferns, ornamental grasses, and several sculptures and stone works.

**C**all the office, 518-875-6935, to request one or go [www.LandisArboretum.org](http://www.LandisArboretum.org). Advance registration and payment is suggested. \$25 for all gardens. \$10 for the three Albany gardens; \$5 each for the Zabawsky, Meyers, Lee/Gaughan and King gardens.

**Judith Adrezin's** landscape design blends the exotic and the unusual, creating beauty and variety, and privacy in an urban setting. Dwarf, weeping and grafted trees are mingled with traditional northeastern plant material. Color, fragrance and seasonal interest are provided by trees, perennials, annuals and grasses, with showy ligularias as her favorite.

**Alma Weiner** sows hundreds of pansy, alyssum and begonia seeds in early February under florescent lights, along with petunia, ageratum, coleus, cosmos, nasturtium, marigold and zinnia. By the end of March, seedlings are transplanted into peat pots. By mid-May the entire property is planted and ready for bloom. Alma's garden continues to display four to five thousand annuals with never a loss to a springtime frost.

#### **Make a Day of it:**

A walk around Buckingham Pond; Washington Park near Lark Steet; Pine Bush Nature Preserve off Rte. 155; Hudson River pedestrian bridge with great views of Albany and the river; Albany Institute of History and Art; New York State Museum; Stuyvesant Plaza on the corner of Western Ave and Fuller Road has restaurants and unique shopping

**Sunday, July 31, 11-4pm**

### **Cindy King, Glen**

Master Gardener Cindy King hosts a garden tour that features daylilies, perennials and a woodland garden with paths and fields though 11 acres. She has been working on the property for 12 years. Select varieties of daylilies will be available for sale and there will be free informational brochures from various sources pertaining to the gardens. As a Master Forest Owner, Cindy has been enhancing her woodlands, too. The woodland garden, complete with a small stream, is also included for guests who enjoy walking through fields and small hills. Hiking shoes are recommended for this part of the garden.

# WORKSHOP AND SPECIAL EVENT REGISTRATION

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

Workshop/Event

Date

Number of members attending @ \$ = \$ subtotal

Number of nonmembers attending @ \$ = \$ subtotal

\$Total

Payment Method : Check:  Please make payable to Landis Arboretum Credit Card:  Visa  Mastercard

Card number \_\_\_\_\_

Exp. Date \_\_\_\_\_

**Total \$**

Signature \_\_\_\_\_

## CALENDAR Upcoming Events

For registration and information call 518-875-6935 or [landis@midtel.net](mailto:landis@midtel.net); or use the registration form on page 7.

Enclose with payment and mail to:  
Landis Arboretum, Lape Road, Box 186,  
Esperance, NY 12066-0186

All events take place at the Arboretum unless noted.

**Family programs** with nature educator George Steele begin at the Arboretum Meeting House. Programs are free and no registration is necessary. Donations are greatly appreciated. Programs are held rain or shine.

**Advance payment and registration** is required for all general classes and workshops, trips and Horticulture Certificate classes. For your convenience, payment can be made via Visa or MasterCard.

For a more complete description of course contents, see the "Coming Attractions" insert in the Winter 2005 Newsletter.

Programs that are starred (\*) require advance registration.

### MAY

#### 6 (Friday) 9pm

ALBANY AREA ASTRONOMERS  
Star Party

Check if a particular star party is happening or not (cloudy skies) call 518-374-8460. Dress warmly and bring a blanket

Free

#### 7 (Saturday) 8-9:30pm

FAMILY PROGRAM  
Woodcock Walk  
The walk will consist of learning about the woodcock, listening for singing males and trying to sneak up on them to get a closer look at them. Free.

#### \*13 (Friday) 5-8p

PLANT SALE  
Members' Preview Party  
Get your "pick of the pots" at the plant sale. Dinner is complimentary and served from 5:30-7:30pm. Members only. Nonmembers can register and join. Registration and payment deadline is Wednesday, May 9. \$15.

#### 14-15 (Saturday-Sunday) 10am-4pm

PLANT SALE  
Spring Plant and Book Sale  
19 (Thursday) 6-7:30pm  
GENERAL CLASS  
Tree and Bird Tour of Cobleskill. Free.

#### 21 (Saturday) 6-9am

FAMILY PROGRAM  
Early Morning Bird Walk

#### \*26 (Thursday) 7:30am-7pm

GENERAL CLASS  
Bus Trip to Wave Hill  
Registration and payment by May 19. \$60 members; \$65 non-members

### JUNE

#### 3 (Friday) 9:30pm

ALBANY AREA ASTRONOMERS  
Star Party

#### 3 (Saturday) 9-10:30pm

FAMILY PROGRAM  
Moth Watch  
With luck we will see luna, cecropia, and hawk moths. Free.

#### \*4 (Saturday) 9am-noon

GENERAL CLASS  
Attracting Bluebirds to Your Backyard  
Registration and payment by Friday, June 3. \$5 individuals, \$10 families

#### 12 (Sunday) 2-3:30pm

FAMILY PROGRAM  
How Trees Grow  
Learn what parts of the tree do the growing. Tree identification. Free.

#### 12 (Sunday) 1-4pm

GARDEN TOUR  
Nick Zabowski, Amsterdam. \$5

#### \*18 (Sunday) 1-3pm

FAMILY PROGRAM  
Summer Sun Festival  
Cook with sunshine, make sun prints, play shadow tag, drink sun tea. Free. Registration by Thursday, June 16.

#### \*25 (Saturday) 10pm

ALBANY AREA ASTRONOMERS  
A Walk Among the Summer Stars

### JULY

#### 2 (Sunday) 1-4pm

GARDEN TOUR  
Keith Lee & Jim Gaughan, Altamont. \$5

#### 8 (Friday) 10pm

ALBANY AREA ASTRONOMERS  
Star Party  
\*9,16,23,30 (Saturdays) 9-11:30am  
GENERAL CLASS

Botanical Drawing  
For all skill levels. Registration and payment by Thursday, July 7. \$40.

#### \*9 (Saturday) 9am-noon

GENERAL CLASS  
Basic Pruning Workshop  
Class size is limited. Registration and payment is Wednesday, July 6. \$25 members, \$30 non-members.

#### 10 (Sunday) 1-4pm

GARDEN TOUR  
Laurie Meyers Duanesburg.. \$5

#### 15 (Friday) 8:30-10pm

FAMILY PROGRAM  
Bat Search. Free.

#### \*16 (Saturday) 9am-noon

GENERAL CLASS  
Advanced Pruning Workshop  
Class size is limited. Registration and payment is Wednesday, July 14. \$25 members, \$30 non-members.

#### 23 (Saturday) 1-4pm

GARDEN TOUR (3)  
Jason Schultz, Judith Adrezn, & Alma Weiner, Albany.. \$10

#### 23 (Saturday) 2-3:30pm

FAMILY PROGRAM  
Herpetology Hike

#### 31 (Sunday) 6-8am

GENERAL CLASS (adults only)  
By Dawn's Early Light (sunrise hike)

#### 31 (Sunday) 11-4pm

GARDEN TOUR  
Cindy King, Glen. \$5

### AUGUST

#### 5 (Friday) 8-9:30pm

FAMILY PROGRAM  
Nature Tunes & Tales/Campfire Singalong. Free.

#### 12 (Wednesday) 9pm

ALBANY AREA ASTRONOMERS  
Perseid Meteor Shower. Free.

#### 13 (Saturday) 4pm

Sun/Moon Party. Free.

#### 16 (Tuesday) 7:30pm

Club Meeting and Star Party. Free.

LANDIS  
ARBORETUM  
LAPE ROAD, BOX 186  
ESPERANCE, NY  
12066-0186

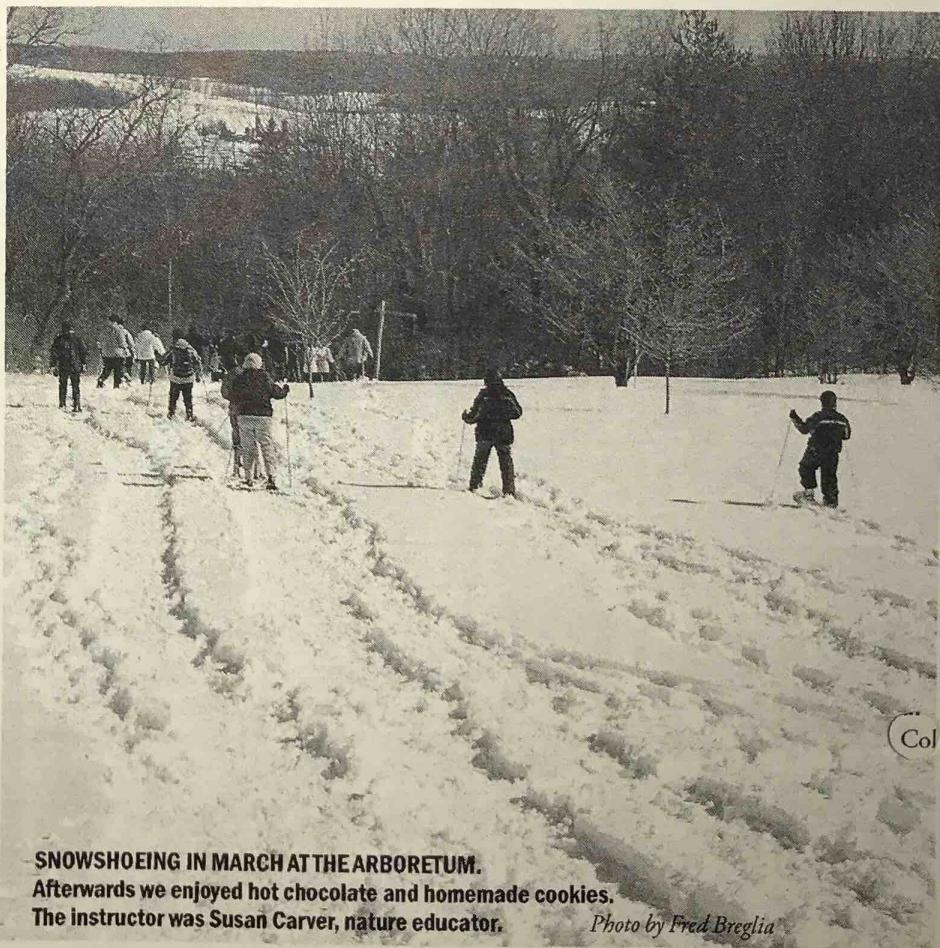
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## Join today!

BECOME A MEMBER of the Landis Arboretum. You'll support an important community resource and enjoy all the benefits of membership.

- Quarterly Arboretum newsletter filled with articles about our collections and activities
- Advance notice of classes, tours and many other special events
- Discounts on classes, trips, events and Acorn Gift Shop purchases
- The satisfaction of helping to sustain a valuable natural resource
- Members only events: Pick of the Pots Plant Sale Preview Party, guided tours of the new trails and grounds, and the Plant Swap in fall

MEMBERSHIP IS THE MOST IMPORTANT part of the Arboretum's financial support. Contact the Arboretum at 518-875-6935 or [landis@midtel.net](mailto:landis@midtel.net).



**SNOWSHOEING IN MARCH AT THE ARBORETUM.**  
Afterwards we enjoyed hot chocolate and homemade cookies.  
The instructor was Susan Carver, nature educator.

*Photo by Fred Breglia*