York Challenge Announced at Gala

On May 2, 672 revelers streamed through the Arboretum to celebrate the 1999 Gala in the Garden. They shopped at the hat boutique to capture designer creations by Susan Stephenson. They vied for the fantasy bird houses decorating the paths and the tables. They competed hotly for items in the silent auction, strolled the garden, and settled in for a dinner under the big top. The spired white tent, rising from a floor constructed over the annual trial gardens, allowed all the gala guests to dine together for the first time since the gala’s inception.

The biggest news of the evening, however, came during a surprise announcement made by Chancellor Marye Anne Fox. She told guests of a $300,000 challenge grant extended by Lib and Willie York to support the future Education Center.

William C. Friday, Executive Director of the William R. Kenan, Jr. Charitable Trust and former president of the UNC system, spoke eloquently to the significance of the York’s challenge.

“The Arboretum represents the fulfillment of the great dreams of Professor Raulston and all that he has meant to the greening of North Carolina,” Friday said. “At this place, he developed whole new industries for our people. Now, the state, through its friends, will build here a lasting tribute to this man whose noble spirit impacted each of us.

“Lib and Willie York are the strong right arm of JC Raulston in making his dreams come true. They have devoted so much of their lives to making NC State the important institution that it is today.”

Bill Wilder, chairman of the Arboretum Board of Advisors and legislative liaison for the NC Association of Nurserymen, officially accepted the challenge.

“Lib and Willie York have challenged the Arboretum community to raise $3.4 million in legislative funding and $800,000 in private funds to build the future Education Center,” Wilder said. “On behalf of the Arboretum Board of Advisors and the North Carolina green industry, I accept that challenge.

See York, page 2
On February 1, 1999, Flocks of pink and white flamingos mysteriously landed in the Arboretum. It was also Bob’s first day as director. Any connection? What’s next, pink elephants?  

(photo by Jonathan Nyberg)

Yorks, cont. from p. 1

and thank Lib and Willie York for this generous commitment and this motivation to move forward.”

Wilder asked the legislators and other friends of the Arboretum present to work with him toward the passage of legislation currently introduced in NC House and Senate. He and Libby Wilder also pledged the first $1,000 toward matching the York Challenge.

Lib and Willie York and Marye Anne Fox and Jim Whitesell served together as honorary co-chairmen of the Gala in the Garden.

“Jim and I were honored to serve as honorary co-chairs alongside such great friends of NC State,” said Fox.

“Lib and Willie York have both brought strong leadership to the Arboretum and to this University. NC State is a far greater institution as a result of their unwavering friendship and support.”

Arboretum director Bob Lyons also expressed his gratitude for the York’s commitment and for all those who made the 1999 Gala in the Garden a success.

“This challenge is a tremendous inspiration to all of us, and we can never thank Lib and Willie enough for this latest example of their leadership and generosity. In recognition of their commitment, the auditorium in the future Education Center will bear their name. This is a fitting legacy to two individuals whose contributions can be seen everywhere in the JC Raulston Arboretum, and a family that, for four generations, has been - and are still - integral to the history of NC State University.”

“I also want to thank event co-chairs Pickett Guthrie and Charlotte Martin, the rest of the amazingly talented and dedicated committee, and all the very generous sponsors who made this evening possible.”

The gala raised over $61,000 toward the construction of the Education Center. Ground breaking for the center will begin as soon as the $4.2 million necessary for construction is raised.

See the summer issue of the newsletter for more on the gala!
Evergreen Magnoliaceae Evaluations
By Pat McCracken

The collection of Magnoliaceae at the JC Raulston Arboretum at North Carolina State University has become extensive over the past several years. As curator of the magnolia collection, I have taken a personal interest the last few years in the evergreen members of this family. Most people are familiar with the popular southern magnolia (Magnolia grandiflora); however, most people have never seen the more exotic species of evergreen Magnoliaceae. One of my goals is to introduce the gardening public to this diverse and landscape worthy group of plants. To my knowledge, a thorough and serious collection of these plants has not been done to date.

Initially, I decided to emphasize Magnolia grandiflora cultivars. The collection now contains over 100 selections of this wonderful species and represents one of the largest collections of this species in the world. Unfortunately these plants require a tremendous amount of space, and can not all be grown at the arboretum. The collection is being housed by Taylor’s Nursery in Raleigh, NC and will be maintained there for the duration of the evaluations. Taylor’s has graciously agreed to donate several acres of field space for this extensive collection. I am currently also trying to collect all other species and cultivars of evergreen Magnoliaceae for evaluation.

One of the primary interests in the Magnolia grandiflora collection is to evaluate for cold hardiness. This will be done with cooperative research with Dr. Paul Cappiello at Bernheim Arboretum in Kentucky. Dr. Cappiello will be conducting laboratory experiments to determine the theoretical minimum temperatures each cultivar can withstand. At the termination of the laboratory trial, we will conduct extensive field trials of the hardiest cultivars in northern test sites. This knowledge will be invaluable to the nursery industry because it will allow us to aggressively make selections of magnolias that can be marketed far north of the current market. It will also be of great value in magnolia breeding. By crossing the hardiest Magnolia grandiflora cultivars with other less hardy species it should be possible to produce cold hardy hybrids with great garden merit.

The other evergreen species will also be evaluated for cold hardness and landscape value. There is a large number of species that may have commercial value in the warmer regions of the United States. In the following section, I will discuss my breeding ideas in more detail.

Breeding Work within the Evergreen Magnoliaceae

Plant breeders have long overlooked evergreen magnolia species (and other evergreen genera in the Magnoliaceae). This remarkable group of plants offers a wide range of hardiness, plant size and growth habit, leaf form, flower size and flower fragrance. Flower color has been basically only white (with a very few pink selections in genera other than Magnolia).

Hardiness ranges from a limited number of plants that will survive zone 5 all the way to plants that are

Can you imagine the above magnolia flower in shades of pink and red growing on a trellis in your garden? Breeder Pat McCracken can! photo by JC Raulston

See Magnolia, next page
Plant News

**Magnolia**, continued

tropical zone 10 hardy. The primary problem with evergreen magnolias has always been cold hardiness. The large evergreen leaves are extremely susceptible to desiccation during the winter. There are a few selections of *Magnolia grandiflora* and *Magnolia virginiana* that have done fairly well in zone 5a climates. These same species also extend at least into zone 9. These two species will be the focus on breeding for more cold hardy evergreen Magnoliaceae.

Plant size and growth habit are extremely variable within the evergreen members of the Magnoliaceae. Plants like *Magnolia grandiflora* can easily grow to be 60 feet tall with equal or greater spread. I know of a single plant in southern Georgia that is over 100 feet wide! Smaller members of this family are small shrubs. Growth habit can range from wide-spread to narrowly upright. *Mangleitia yunnanensis* has a very upright, formal growth habit and appears to be an ideal candidate for breeding. I have been successful in crossing *Magnolia grandiflora* 'Little Gem' with this species. The reciprocal cross has not been successful. I have tried crossing many evergreen and deciduous species onto *Mangleitia yunnanensis* and to date have been able to produce no viable seeds.

Leaf form varies widely within the evergreen members of the Magnoliaceae. The largest leaf forms would be found on *Magnolia delavayii* or *Magnolia grandiflora*, with leaves often over twelve inches in length and over five inches wide. Some of the smaller leaves can be found on *Michellia* species. *Michellia figo* has leaves usually two inches long and one inch wide. Extremely long, narrow leaves are found within the genus *Mangleitia*. *Mangleitia yunnanensis* has leaves six inches long and three-quarter inches wide. Some species have leaves that are extremely glossy on the upper surface (*Magnolia grandiflora*), and others have leaves with very dull, matte surfaces (*Magnolia guatamalensis* and several other subtropical species). Some species have extremely heavy indentatum on the lower surface of the leaves (*Magnolia grandiflora*) and some species have a white or silvery lower leaf surface (*Magnolia virginiana*).

Flower size ranges from extremely large blooms over 15 inches wide (*Magnolia delavayii* and *Magnolia grandiflora*), to very small flowers less than one inch wide (*Michellia figo*). Fragrance can range from overpowering musty smells to sweet, tropical fruity smells. Most evergreen members of the Magnoliaceae do have a distinct fragrance. Flower color is basically an off-white or cream color. As flowers age they often develop a yellow cast to them. Yellow (often with green or purple undertones) flower color can be found in *Michelia figo*. Rare pink flowers can be found in *Magnolia virginiana*, *Michelia affinis* and *Mangleitia insignis*. A red flowered form of *Magnolia delavayii* has been reported. I am planning on working with *Magnolia virginiana*, *Magnolia delavayii* and *Mangleitia insignis* to bring pink flower color into other species of evergreen Magnoliaceae.

**Breeding Goals For The Future**

1. Develop cold hardy *Magnolia grandiflora* cultivars (hardy into zone 4b?)

2. Develop large pink/red flowering evergreen magnolias that are hardy to at least zone 7b. This may be difficult since *Magnolia delavayii* "red flowered form" is a zone 9 plant.

3. Develop improved growth habit and flowering characteristics. I would like to develop hybrids with *Magnolia grandiflora* and other species (both evergreen and deciduous) that have bright red stamens.

4. This, perhaps, should be listed under "delusions of grandeur for the future," but I hope to cross evergreen Magnoliaceae with the magnolia vine (*Scasandra* species). The goal here would be to develop an evergreen, large flowered (maybe even with pink flowers!), vining magnolia! One can only dream!

5. Under the same category above, I hope to cross *Liriodendron tulipifera* into *Magnolia*. The dream is to bring in the orange flower color found in *Liriodendron* into the rest of the magnolia family. This will be attempted with both evergreen and deciduous species of magnolia.

This will be more work than I can hope to accomplish within my lifetime. However, this is a passion that I have developed (especially after having the honor to work with August Kehr of Hendersonville, NC) and I’m sure it will be a lot of fun!

I would love to hear if you have any comments or ideas on breeding projects or if you know of any *Magnolia grandiflora* that are growing in zone 5 or colder.

See *Magnolia*, next page
Magnolia, continued

Cultivars needed for evaluation

If you have any of the following cultivars and would be willing to send either cuttings or small rooted plants, please contact me by the various means listed at the end of the article.

Magnolia grandiflora 'Cairo'
Magnolia grandiflora 'Calla Lily-leaf'
Magnolia grandiflora 'Dauber'
Magnolia grandiflora 'Eisenberg'
Magnolia grandiflora 'Exmouth'
Magnolia grandiflora 'Exoniensis'
Magnolia grandiflora 'Gloriosa'
Magnolia grandiflora 'Goliath'
Magnolia grandiflora 'Greenspire'
Magnolia grandiflora 'Lanceolata'
Magnolia grandiflora 'Main Street'
Magnolia grandiflora 'Majestic Beauty'
Magnolia grandiflora 'Pygmea'
Magnolia grandiflora 'Siankard'
Magnolia x 'Timeless Beauty'
Magnolia delayvii (Red Flowered Form)

List of evergreen Magnoliaceae at the JC Raulston Arboretum

Magnolia grandiflora 'Baby Doll'
Magnolia grandiflora 'Bracken's Brown Beauty'
Magnolia grandiflora 'CoCo'
Magnolia grandiflora 'Dearing Street'
Magnolia grandiflora 'Edith Bogue'
Magnolia grandiflora 'Ferruginea'
Magnolia grandiflora 'Gallisoniere'
Magnolia grandiflora 'Goliath'
Magnolia grandiflora 'Harold Poole'
Magnolia grandiflora 'Hasse'
Magnolia grandiflora 'Jubilee'
Magnolia grandiflora 'Little Gem'
Magnolia grandiflora 'Pioneer'
Magnolia grandiflora 'Poconos'
Magnolia grandiflora 'Reigle'
Magnolia grandiflora 'Satin Leaf'
Magnolia grandiflora 'Semmes'
Magnolia grandiflora 'Southern Lights'
Magnolia grandiflora 'St. Mary'
Magnolia grandiflora 'Symme’s Select'
Magnolia grandiflora 'Variegated'
Magnolia grandiflora 'Victoria'
Magnolia tamaulipana 'Bronze Sentinel'
Michelia amoena 'Dodd’s Dwarf'
Magnolia virginiana 'Green Bay'
Magnolia virginiana 'Henry Hicks'
Magnolia virginiana 'Kousa'
Magnolia virginiana 'Milton'
Magnolia virginiana 'Mt. Pulaski'
Magnolia virginiana 'Perdido'
Magnolia virginiana 'Santa Rosa'
Magnolia virginiana 'Willowleaf'

List of the evergreen cultivars and species currently housed by Taylor's Nursery

Magnolia grandiflora 'Al’s Golden' grafted
Magnolia grandiflora 'Atlanta'
Magnolia grandiflora Black Stem'
Magnolia grandiflora 'Bracken’s Brown Beauty'
Magnolia grandiflora 'Bronze leaf seedling from Brown Velvet'
Magnolia grandiflora 'Brown Velvet'
Magnolia grandiflora 'Charles Dickens'
Magnolia grandiflora 'D. D. Blanchard'
Magnolia grandiflora 'Deering Street'
Magnolia grandiflora 'Dr. Henry Orr'
Magnolia grandiflora 'Edith Bogue'
Magnolia grandiflora 'Fairhope'
Magnolia grandiflora 'Ferruginea'
Magnolia grandiflora 'Foothills'
Magnolia grandiflora 'Gallisonensis'
Magnolia grandiflora 'Green Giant'
Magnolia grandiflora 'Greenback' (Mtgig)
Magnolia grandiflora 'Griffin'
Magnolia grandiflora 'Harold Poole'
Magnolia grandiflora 'Hartline Seedling'
Magnolia grandiflora 'Hasse'
Magnolia grandiflora 'Hasse Variegated'
Magnolia grandiflora 'Head-Lee # 2'
Magnolia grandiflora 'Hillcrest Selection'
Magnolia grandiflora 'Ingleside Plantation Nursery # 14'
Magnolia grandiflora 'Ingleside Plantation Nursery #13'
Magnolia grandiflora 'Ingleside Plantation Nursery #18'
Magnolia grandiflora 'Ingleside Plantation Nursery #4'
Magnolia grandiflora 'Ingleside Plantation Nursery #7'
Magnolia grandiflora 'Jubilee'
Magnolia grandiflora 'Little Gem'
Magnolia grandiflora 'Little Gem’ x M. sieboldii ‘Genesis’
Magnolia grandiflora 'Margaret Davis'
Magnolia grandiflora 'Maryland'
Magnolia grandiflora 'Minus 24'
Magnolia grandiflora 'Mossy Creek'
Magnolia grandiflora ‘NA 7707-8’ grafted
Magnolia grandiflora ‘NA 7707-8’???
Magnolia grandiflora (Old tree from Scituate, MA)
Magnolia grandiflora ‘Parris Select’
Magnolia grandiflora ‘Phil Savage’
Magnolia grandiflora ‘Pittsbug - from Gabriel’
Magnolia grandiflora ‘Pocanos’
Magnolia grandiflora ‘Puff’
Magnolia grandiflora ‘Russet’
Magnolia grandiflora ‘Samuel Sommer’
Magnolia grandiflora ‘Santa Cruz’
Magnolia grandiflora ‘Satin Leaf’
Magnolia grandiflora ‘Seeding of Charles Dickens’
Magnolia grandiflora ‘Semmes’
Magnolia grandiflora ‘Shady Grove #6’
Magnolia grandiflora ‘Small leaved seedling of St. Mary’
Magnolia grandiflora ‘Smith Fogle’
Magnolia grandiflora ‘Southern Pride’
Magnolia grandiflora ‘Southern Lights’
Magnolia grandiflora ‘Spring Grove #16’
Magnolia grandiflora ‘St. Mary’
Magnolia grandiflora ‘Suede’
Magnolia grandiflora ‘Susquehannah’
Magnolia grandiflora ‘Symmes Select’
Magnolia grandiflora ‘Topaz’
Magnolia grandiflora ‘Victoria’
Magnolia grandiflora ‘Wagner’
Magnolia grandiflora ‘Weston’s Selection’
Magnolia guatamalensis
Magnolia tamaulipana
Magnolia virginiana ‘Perdido’
Magnolia virginiana ‘Santa Rosa’
Magnolia virginiana ‘Santa Cruz’
Magnolia virginiana ‘Seed of St. Mary’
Magnolia virginiana ‘Small leaved seedling of St. Mary’
Magnolia virginiana ‘Spring Grove #16’
Magnolia virginiana ‘Symmes Select’
Magnolia virginiana ‘Tensaw’
Magnolia x ‘Riegel’
Magnolia x ‘Sweet Summer’
Michelia fordiana
Michelia insignis
Michelia yunnanensis
Michelia dolospa (Michelia x foggii) x Michelia foggii

If you have any information on any of the cultivars listed anywhere in this article (breeder or originator, cold hardiness information, date of release, nomenclature, etc.) please send me that information.

Email: pmccrac000@aol.com
Fax: 919-231-7688
Phone: 919-365-7878 (H) 919-231-6161 (W)
Address: Home: 8025 Fowler, Zebulon, NC 27579
Work: Taylor’s Nursery, 3705 New Bern Ave., Raleigh, NC 27610
Plant News

Plants to Create a Garden of Winter Delights

Green and Growin’ Show
Winston-Salem, NC
January 14-15, 1999

Plant descriptions by
Jonathan Nyberg and Douglas Ruhren

Plants selected by
Douglas Ruhren, Mitzi Hole, Bryce Lane and Jonathan Nyberg

The follow plants were displayed by the Arboretum at the Green and Growin’ trade show, January 14-15, 1999.

Arum italicum (Araceae) “Italian Arum” This plant is known as the hosta of the winter garden. Its ideal site is the same as for hosta, and its foliage dies back in May and reappears in October – talk about an ideal time share arrangement! Showy orange berries. Zone 6-8.

Aspidistra elatior ‘Asahi’ (Convallariaceae) “Asahi Cast Iron Plant” White tipped foliage. Zone 7b or sheltered site in zone 7a.

Aspidistra elatior ‘Variegata’ (Convallariaceae) “Variegated Cast Iron Plant” Evergreen foliage plant for shade gives that tropical look. Elegant…and truly as tough as cast iron. This cultivar striped with white. Zone 7b or sheltered site in zone 7a.

Chimonanthus praecox (Calycanthaceae) “Fragrant Wintersweet” No need for anything but a average nose to enjoy the aptly named fragrance of this slow growing shrub/small tree in January. Open flowers recently survived 15 degrees at the Arb with no problem, and reportedly will take much lower tems. No insect or disease problems. Branches easily forced inside. This plant is a big should for the gardener who appreciates the finer things in life. Zone 6-9 (flowers more reliable in zone 7).

Cornus alba (Cornaceae) “Red Twig Dogwood” There are many cultivars of this beautiful and well-adapted deciduous shrub. Prune to ground each spring to maintain brilliant color of twigs in the winter landscape. 3-5 feet; zone 3-8.

Cornus mas ‘Spring Glow’ (Cornaceae) “Cornelian Cherry Dogwood” Blooming near the end of winter, Cornus mas blooms at a time when there is little competition from other flowering plants. ‘Spring Glow’ is a selection made by JC as a good-flowering clone for zone 7, where, although the tree does well, the flowers are generally not as prolific as they are further north. Beautiful bark adds to the value of this 20 foot tree in the winter garden. Zone 4-8.

Cornus stolonifera ‘Silver and Gold’ (Cornaceae) “Yellow Twig Dogwood” Yellow twigs in winter and white variegated foliage in summer. Zone 3-8.

Crataegus viridis ‘Winter King’ (Rosaceae) “Green Hawthorn” Come to the far West side of the Arboretum, see the majestic Winter King hold court, and you will soon be under the reign of this regal tree that truly lives up to its name. The prolific fruits are larger than the species. Introduced by Simpson Nursery of Indiana in 1955. 20’ to 25’ tall and less susceptible to rust than other Hawthorns. If you have room for one tree this size in your winter garden, this would be the choice. Zone 4 to 7.

Valerie Tyson makes a new friend at a staff party generously hosted by Arboretum volunteer Gay Gallins in her unique Winston-Salem home. photo by Jonathan Nyberg

See Winter, next page
Winter, continued

**Danae racemosa** (Ruscaceae) “Poet’s Laurel” Elegant, arching stems with evergreen leaves and orange berries make this a must for the winter garden. Cut stems are good for indoor arrangements. Zone 7b-9.

**Daphne odora** ‘Variegata’ (Thymelaeaceae) “Variegated Daphne” Gardeners who are able to grow this temperamental shrub taller than 2 feet often have a little air of superiority – until one day, for no known reason, their source of pride withers and dies overnight. “Oh, how the mighty have fallen!” This cream-edged beauty is worth killing over and over again. Zone 4-7.

**Edgeworthia papyfera** (Thymelaeaceae) “Paperbush” Choice shrub for a woodland winter garden. It needs high organic matter soils, light to moderate shade and some protection if possible. The flower clusters hang down showing a hairy, white sheen most of the winter. The foliage gives a little bit of a tropical look during the summer. Zone 7-9.

**Euonymus alata** ‘Montrosus’ (Celastraceae) “Montrosus Winged Euonymus” A selection with even more pronounced wings and corky bark. Good, rock solid specimen shrub in the winter garden to underplant with crocus and daffodils. 15’ to 20’ tall. Zone 4-8.

**Hamamelis X intermedia** (Hamamelidaceae) “Witchhazel” Winter/spring flowering hybrids of H. mollis and H. japonica. Small, loosely spreading trees to 15-20 feet, generally excellent fall color, and fragrant flowers (if you have a good nose). Zone 5-8.

‘Diane’ – bronze, copper-red flowers
‘Early Bright’ — yellow
‘Jelena’ – red, orange and yellow mix gives a strong coppery look.

**Hedera helix** (Adult Form) (Araliaceae) “Adult Ivy” “Don’t get Jonathan started on this plant,” I can hear my co-workers advising. My only question is this, with so many green blobs in the landscape, why not plant an interesting green blob? Consider: lustrous, green leaves that just shine year around; globose, white flowers in late summer that are insect magnets; blackish fruits all winter. Plus, it’s IVY! Meaning it’s very hard to kill, widely adaptable to site and will not only live, but live well, in dry shade. Zone 4-9.

‘Goldheart’ (Adult Form) Bold yellow variegation; slow growing.

**Helleborus foetidus** (Ranunculaceae) “Stinking Hellebore” If ever a plant needs an agent to negotiate a name change this is it. The stinking part comes from an unpleasant smell, released when the leaves are crushed, but there’s no real reason to go around crushing the leaves. H. foetidus is the herbaceous workhorse of the winter garden, a strong grower and a free seeder with long lasting handsome foliage, bracts and pale green flowers. Humus-rich soil and partial shade is best, but it is adaptable to many sites. Zone 6-8.

**Ilex crenata** ‘Yellow Fruits’ (Aquifoliaceae) “Japanese Holly” This plant, which is just outside of the Klein-Pringle White Garden at the Arb, consistently catches one’s attention with its pretty, understated, creamy-yellow berries. Well worth searching out. Zone 5-8.

**Ilex decidua** ‘Finch’s Gold’ (Aquifoliaceae) “Possumhaw” Yellow-fruit form of the native Possumhaw holly. Zone 5-9.

See Winter, next page
Winter, continued

**Ilex X ‘Carolina Cardinal’**
(Aquifoliaceae) “Carolina Cardinal Holly” *I. verticillata X I. serrata*
hybrid seedling selected by JC for its low spreading habit, ultimate size probably under 8 feet. Fruits heavily practically every year at the Arboretum. Deciduous hollies are a must for any winter garden. Zone 5-9.

**Koelreuteria bipinnata**
(Sapindaceae) Very much like *K. paniculata* but larger; blooming in late summer. Zone 6-8.

**Koelreuteria paniculata ‘September’**
(Sapindaceae) “Golden Raintree” This well known small tree is grown for its eye-catching yellow flowers in summer. ‘September’ was selected for its late flowering. At the Arb, we appreciate the dried fruits all winter. Zone 4-8.

**Lonicera fragrantissima**
(Caprifoliaceae) “Winter Honeysuckle” Well known, old-fashioned, 10 foot tall shrub that has to be somewhere in the winter garden, if only to bring its fragrant branches inside during the winter. Not invasive in woodlands as are some of its relatives. Zone 4-8.

**Nandina domestica ‘Alba’**
(Berberidaceae) “Heavenly Bamboo” The yellow berries on this *Nandina* look incredibly good if one plant is mixed into a block of red berried ones. Great for Christmas decoration, too. A high percentage come true from seed. 4’ to 6’ high; zone 6-9.

**Phellodendron amurense** (Rutaceae) “Amur Corktree” Fast growing 30’ to 40’ tree was often touted by JC for its toughness, ornamental qualities and easy propagation from seed. We highlight it here for the attractive black fruit that persist all winter on a female tree. Zone 3-8.

**Pinus densiflora ‘Oculus Draconis’**
(Pinaceae) “Dragon’s Eye Japanese Red Pine” Well known cultivar with yellow banded needles. Zone 3b-7

**Poncirus trifoliata ‘Flying Dragon’**
(Rutaceae) “Contorted Hardy Orange” This cultivar has been around awhile so we were surprised at SNA last summer when a specimen received more attention than any other plant. It’s like the TV rerun promos - if you haven’t seen it, it’s new to you! Forms impenetrable hedge for all creatures except elephants or rhinos; fragrant, white, gorgeous flowers in spring; and barely edible, ornamental oranges in winter. Zone 5-9.

**Prunus mume** (Rosaceae) “Japanese Apricot” One of JC’s most beloved trees. He once said that his goal was to plant one at every McDonalds so people would see them. JC was able to convert Mike Dirr, who writes glowingly of mumes in his new edition of the *Manual of Woody Landscape Plants*. Small tree to 15-20 feet, showy flowers Dec.-Feb., many cultivars are sweetly fragrant. Zone 6-9. Easily propagated by softwood cuttings in summer. ‘Kobai’ – red, semi-double flowers. ‘Peggy Clarke’ – double, deep rose flowers with long stamens and red calyx.

**Rhapidophyllum hystrix**
(Arecaceae) “Needle Palm” SE native. One of the hardiest palms. Survived the winter of 1984 in the Arboretum. Reliable through zone 7. Sun or shade. 10 feet tall.

**Sabal minor**
(Arecaceae) “Bush Palmetto” A hardy palm for zone 7 gardens. The broad, fan-shaped leaves make this a great textural plant. The blue/black berries which are borne on 6 foot stalks make it even more valuable in the winter garden. Zone 7-10.

**Symphoricarpos orbiculatus**
(Caprifoliaceae) “Coralberry, Indian Currant” Purple berries persist all winter on this adaptable native shrub. Great choice for a woodland winter garden. Zone 2-8.

**Ulmus alata f. pendula ‘Lace Parasol’**
(Ulmaceae) “Lace Parasol Winged Elm” The outstanding specimen at the Arb is memorable by all who are fortunate enough to see it at its winter peak. This is a plant to build a winter garden around. The original found in the wilds of Person Co., NC Zone 6-9.

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Look who showed up to help us take down the booth!
Dan Hinkley, left, and Richard Olsen. photo by Jonathan Nyberg
Plant News

In England, conflicting desires and a fast-growing conifer add up to hedge rage

Reprinted by permission from the Associated Press.

“The leyland cypress in NC is closely associated with The NCSU Arboretum (for better or worse!),” wrote JC Raulston in 1988. Because of this association, I thought our friends would find the following article amusing. The article calls it the “American leyland cypress tree.” The parents of this intergeneric hybrid are American (Cupressus macrocarpa and Chamaecyparis nootkatensis), however it should be pointed out the first cross was made in Great Britain just over 100 years ago. —JN

Suburbanites brandish axes and chain saws. The government is on the brink of joining battle. The national news media are on the scene. Towering green aliens are here and they are marching across Britain, pitting neighbor against neighbor and killing off innocent lawns wherever they cast their 30-foot shadows.

Cupressocyparis leylandii, the American leyland cypress tree — which grows more than three feet per year—can cause great distress when planted between neighbors as a hedge. Hundreds of these hedges are sprouting nationwide as homeowners discover the almost instant privacy they provide.


Privacy is not the only motive for planting a leylandii hedge. The petty-minded might be tempted to retaliate for past grievances with the folks next door by allowing untrimmed leylandii to shade the neighbor’s patio and turn their cherished lawn into a brown patch. Rage sometimes takes root on the shady side of the shrubbery, for which the British use the Latin name, pronounced lay-LAN-dee-eye.

At the nub of the leylandii problem is a conflict of national characteristics: the sunlight cravings of a cool, damp, northerly nation; a pride and pleasure in gardening; and a profound desire for privacy. Add to this the conviction that a man’s home is his castle, and you have the makings of a neighborhood war.

Britain’s chief leylandii warrior is Michael Jones, who won a six year; $168,000 court fight against his neighbor, whose 24-foot hedge left Jones without enough sunshine for a decent herbaceous border. To build a fence higher than six feet in a garden, a homeowner has to apply for planning permission. But no such permission is required for hedges of trees.

So Jones took matters into his own hands a couple of times, lopping off 5 feet, then 4 feet. His neighbor took him to court, alleging damage and trespassing—and ended up with a hedge reduced to 12 feet and a bill for all the court courts.

Jones’ widely publicized ordeal struck a chord with other leylandii sufferers. About 2,000 people have joined Hedgeline, a support group he established “to provide fellowship in adversity,” and to convince the government that leylandii legislation is needed. The Daily Mail newspaper is waging a national campaign to bring leylandii planting under legal controls, and the government has set up a leylandii working group to determine what should be done. Hedgeline’s goal is to get hedges listed with other “statutory nuisances” under environmental law.

On its Web site, Hedgeline warns members that lopping off a neighbor’s hedges is still illegal, despite Jones’ victory, made possible only because local regulations gave him leverage most others don’t have. Instead, pending national legislation, the organization recommends sufferers “appeal gently” to their neighbors’ sense of fair play before resorting to the local government or small-claims court.

And speaking of gentle appeals, how are relations nowadays between Jones and his neighbor? Another hedge has been planted behind the infamous one and Jones judges it to be about 20 feet high. We don’t exchange Christmas cards,” he said.
Development News

An open letter from Redge and Jane Hanes
Honorary Chairs of the Raise the Roof Campaign

The long awaited day has arrived. On February 1, 1999, Dr. Robert E. Lyons assumed the directorship of the JC Raulston Arboretum at NC State University, opening the door on a new and exciting era for the Arboretum. He is already hard at work meeting constituents, working with staff, and spending time in the Arboretum, gathering information and developing strategies to enrich the Arboretum’s plant collections and educational outreach.

This also signals a new beginning for us, as Friends of the Arboretum, in our work to support the future Education Center at the Arboretum. After the uncertainty of a two year interim period, we can point with confidence to a talented new leader, to increasing university support, and to the reaffirmation of the Arboretum’s unique central mission: to promote new and better adapted plants for a better world.

We were pleased to learn that Bob Lyons fully embraces the plan for the Education Center, and considers its expedient construction a top priority. He shares our vision of a unique facility that will set a new standard for the integration of garden and architecture, and be a vibrant hub for the education of students, schoolchildren, the green industry, and gardeners everywhere.

Over the coming months, he will meet Arboretum constituents at a series of regional receptions across the state. Bob’s infectious enthusiasm for the Arboretum and its goals is guaranteed to inspire and energize. These meetings will provide a forum for your questions about the Arboretum, a springboard for new ideas and new programs, and momentum to achieve the goals ahead.

The tour got off to a great start in Wilmington on March 24. Other events are scheduled in Asheville, Greensboro, and High Point, and planning is underway for receptions in Charlotte, Chapel Hill and northeastern NC. We hope you’ll join us at the one nearest you.

Thanks to leadership from Redge and Jane Hanes, the Raise the Roof Campaign has received $50,000 from the James G. Hanes Memorial Fund and the JW and Anna Hodgin Ganes Foundation.

Michel Foundation supports Education Center

Marge and Jake Michel have always been champions of education. Now, with a gift of $10,000 from the Michel Family Foundation to the Arboretum Education Center, they’ve broadened their patronage of horticultural education.

Their first foray into public horticulture was at Richmond Hill, an inn and conference center they developed in Asheville, North Carolina. The inn was developed as a gardener’s wonderland, and has become a venue for garden education.

“In addition to this generous gift, the Michels have made a major contribution to horticulture through their vision to create fine gardens and horticultural events at Richmond Hill,” said landscape architect Chip Callaway. “Annual symposia at Richmond Hill have brought in renowned gardeners such as Penelope Hobhouse, Peter Loewer, and Rosemary Alexander.

“They’ve contributed to the community in so many ways,” said Callaway. “They also recently provided support for an architectural history of Greensboro.

“We were delighted to make this gift in honor of Chip Callaway and Hunter Stubbs,” said Mrs. Michel. “Chip did a tremendous job at Richmond Hill, not only with the landscape design, but also with the overall planning. And now, the gardens continue to evolve so beautifully through the wonderful teamwork between Hunter and Chip. They have both put all their heart and talent into making Richmond Hill what it is today.”

Both professional educators, Dr. and Mrs. Michel run the Education Center, a educational publishing firm located in Greensboro.
**TOP 10 MOST WANTED VOLUNTEER POSITIONS**

**Database entry:** Two volunteers are needed, one as back up. Computer skills a plus, our system is user friendly. Must be available to train Tuesday or Thursday. Once proficient, can schedule own hours at the Volunteer Office or on campus. Weekdays, evenings and weekends 2 – 4 hours per week.

**Spiff-er Up-ers:** These 2 – 4 challenging positions require expertise in small and large broom handling. Leaf raking skills are a must. Seriously, we need a small team of folks who have a keen eye for detail and a passion for keeping things fresh and well maintained. Emphasis is on keeping paved areas swept, groundcover areas free of leaves and plant debris picked up. This team will be responsible for maintaining the What’s-In-Bloom display in the Visitor Center. Orientation is required. Schedule your own hours, regular and weekly.

**Telephone Callers:** Two or three volunteers who have time available in the evening or on weekends, this is a great opportunity to serve. Requires dialing skills, persistence, patience and the ability to give clear and concise instructions to other volunteers. Callers are needed for mailings and special projects. Call from home or the volunteer office. Flexible times, once or twice per month.

**T-shirts Team:** One leader and two volunteers are needed to manage the t-shirt sales. Volunteers should have good organizational and accounting skills. The job entails seeking designs, taking inventories, ordering and stocking as well as coordinating a t-shirt booth for special events and Arboretum functions. One year rotation, 2 – 4 hours per week shared.

**Curators:** Positions are open for experienced gardeners with strong knowledge of the care, maintenance and identification of plants in a specialty area. Work is coordinated with Arboretum staff and other volunteers. Supervisory skills are a plus. Opportunities for expanding and promoting collections. Must be willing to commit 3 - 4 hours weekly.

**Volunteer Office Staff:** Several positions are available. Volunteers give directions, answer questions about the Arboretum, sell t-shirts, make phone calls, answer the phone etc. Computer training provided – we’ve got the latest and the greatest! Several afternoons, Saturday and some Sundays need coverage. 3 – 4 hours weekly. Substitutes also needed.

All interested volunteers should contact the Volunteer Coordinator at 515-3132 or complete a Volunteer Interest Forms located in the Visitor Center.

**NEW CURATORS**

**CJ Dykes** joins us as curator of the *Wisteria Garden*. He will be taking on the weekly pruning during the growing season. He was a personal friend of JC’s and thought it was time to give something back. CJ is supervisor of Landscape and Grounds for the Wake County Public Schools.

**Pam Baggett** will become the curator for the new *Entrance Gardens*. Pam is currently the owner of *Singing Springs Nursery* in Cedar Grove, NC. Her experience and expertise in tender, and unusual perennials will provide a special welcome to visitors.

**Susan Cheatham** has been waiting in the wings for the opportunity to become the Klein-Pringle White Gardens curator. Susan has a wealth of experience to share with us, as a designer, horticulturist/gardener and a painter.

**MANY THANKS!**

We have recently completed our annual Tour Guide Training. Now that the challenging task of bringing some 15 new guides on board and encouraging experienced guides to continue is over, **Vivian Finklestein** can relax. Well almost. At the time of this writing, she is preparing for a special “Story Tour” in which she will tell anecdotes and stories about JC Raulston and many of the plants in the Arboretum’s collections. Not to despair if you missed hearing it in person. Thanks to **Harley Mudge**, we have a new lapel mic and voice activated recorder to tape the tours. Tapes are available in the Volunteer Office for guides who find them especially useful in preparing for their tours.

Many, many thanks to all the guides for providing such a valuable outreach. To new guides, we look forward to having you with us and to experienced guides, thanks for yet another season. Thanks to **Kathe Rauch** and **Carolyn Weathers**, **Roy Dicks** and **Bob Lyons** for taking the time to lead tours and trainings. Thanks to **Fran Johnson**, **Carolyn Fagan** and **Vivian** we’re off to a wonderful season of tours!
Ruhren Winter
Garden Open
House

On February 21, 1999, Douglas
Ruhren generously opened his
Durham house and winter garden
to Arboretum staff and volunteers.
The winter garden was at its peak
with drifts of hellebores, cyclamens,
crocus, daffodils and iris reflecting
the beauty of the blue winter sky
and warm sun. Tours were also led
across the boardwalk to the hidden
serpentine pond in the back yard.

The Arboretum staff presented
Douglas a gift of fresh pears and
other goodies in appreciation of his
recent efforts as Arboretum horti-
cultural advisor. Thanks to Dou-
glas for opening his house and
garden to us, and thanks for the
hours of effort freely given over the
years in support of the JC Raulston
Arboretum.

Here is the recipe for Doug’s
famous Cranberry Cake, which
was very popular.

• Preheat oven to 325 degrees.
• Bottom of 10-12” pie pan or tart
  pan place 2-3 cups whole fresh
  cranberries, 3/4 cup chopped
  walnuts or pecans, 1 cup cane
  sugar.
• make a batter of 3/4 cup melted
  unsalted butter, 2 eggs beaten, 1
  cup sugar, 1 cup flour, 2 teaspoons
  almond extract.
• mix till blended and pour batter
  over ingredients in cakepan.
• Bake for 45-60 minutes until
  lightly golden brown.
• Either leave in pan and serve, or
  try and turn it out (It usually sticks
  a little.)
• Serve with whipped cream.
• This recipe is 100% fat and chole-
  sterol free!

Many Arboretum members were involved in the recent Rock Garden Society
Winter Study Weekend. Above, Bobby Ward visits the magnificent magnolia
display at the Arboretum table. Many gardeners from the north asked if we grew
them in a greenhouse!! We don’t need a greenhouse down here in paradise.

Yes, pink elephants joined the flamingos in welcoming Director Bob Lyons!

Friends of the JC Raulston Arboretum Newsletter
1998 Accessions

981002 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981003 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981004 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981005 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981006 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981007 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981008 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981009 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981010 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981011 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981012 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981013 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
981014 - Abelia chinensis; Mike Dirr, GA; 3" pot; 10/9/98
980733 - Abelia serrata; Camellia Forest N. NC; cutting; 7/13/98
980197 - Abelia X grandiflora 'Compacta'; Johnson's n's, NC; 1g; 2/14/98
980191 - Abelia X grandiflora 'Little Richard'; Harvee Native Trees
980103 - Abelia X grandiflora 'Sherwood'; Pender s Nursery, NC; 1 gal; 2/12/98
980034 - Acer argutum; Forest Farm, OR; 2 tube; 3/26/98
980621 - Acer barbinerve; Chollipo Arboretum, Korea; seed; 5/30/98
980317 - Acer campestre 'Royal Ruby'; Forest Farm, OR; 1g; 3/25/98
980391 - Acer cappadocicum subsp. sinicum; Camellia Forest, NC;
980349 - Acer fabri; Forest Farm, OR; 2 tube; 3/26/98
980089 - Acer griseum; Brown resident; Rich Folk Blvd; seed; 1/12/98
980024 - Acer palmatum 'Bloodgood'; Head-Lee N. SC; 1 qt; 4/3/98
980115 - Acer palmatum var. sargentii; 'Matsue'; Head-Lee N. SC; 1 qt; 4/11/98
980802 - Acer palmatum 'Matsue'; Head-Lee N. SC; 1 qt; 4/11/98
980803 - Acer palmatum 'Sango-kaku'; Head-Lee N. SC; 2 g; 9/8/98
981115 - Acer pilosum var. stenolobum; Wilkerson Mill, GA; 12/16/98
980053 - Acer rubrum 'October Glory'; Head-Lee N. SC; 5 g; 11/1/98
981010 - Acer trilobum; N. Rock Garden Society; seed; 1/28/98
980242 - Achilles 'Snowspurt'; Mich Gardens, NC; 1 gal; 2/27/98
980035 - Acorus gramineus 'Minimus Aureus'; P Baggett, NC; 2 g; 9/29/98
980042 - Acorus gramineus 'Red Dragon'; P Baggett, NC; 2 g; 9/29/98
980032 - Acorus gramineus 'Red Dragon'; P Baggett, NC; 2 g; 9/29/98
980563 - Acorus gramineus 'Red Dragon'; P Baggett, NC; 2 g; 9/29/98
980259 - Acorus gramineus 'Silver Mound'; Mich Gardens, NC; 2 g; 9/29/98
980303 - Acorus gramineus 'Silver Mound'; Mich Gardens, NC; 2 g; 9/29/98
980060 - Acorus gramineus 'Silver Mound'; Mich Gardens, NC; 2 g; 9/29/98
980069 - Acorus gramineus 'Silver Mound'; Mich Gardens, NC; 2 g; 9/29/98
980052 - Acorus gramineus 'Silver Mound'; Mich Gardens, NC; 2 g; 9/29/98
980218 - Agastache 'Blue Fortune'; Mich Gardens, NC; 2/27/98
980936 - Agastache 'Blue Fortune'; Mich Gardens, NC; 2/27/98
980599 - Agastache 'Blue Fortune'; Mich Gardens, NC; 2/27/98
1998 Accessions

980108 - Edgeworthia chrysantha; Ted Stevens, NC; 2 gal; 10/9/98
980072 - Eleagnus viridis var. delayhii; Heronswood, WA; 3/3/4/98
980906 - Eleutherococcus gracilistylus; Plant Delights, NC; 5 gal; 6/12/98
980239 - Euonymus fortunei 'Gracilis'; Plantworks, NC; cell; 2/27/98
981095 - Hedera colchica; Wellspring Grocery, NC; cutting; 8/28/98
980246 - Gaurulindheimer 'Whirley Bliting'; Mich Gardens, NC; 2/27/98
980077 - Gentiana flavida; Shaw Arboretum, MO; seed; 1/13/98
980208 - Gentiana saponaria; Plant Delights, NC; 4" pot; 2/19/98
980577 - Geranium 'Brookside'; Plant Delights, NC; 05/21/98
980058 - Geranium brycei; Strybing Arb, CA; seed; 9/5/98
980689 - Fuchsia woytkowski; Strybing Arb, CA; seed; 9/5/98
980615 - Fuchsia 'Schnecker'; Landcraft Environment; 5/30/98
980553 - Geranium oxonionum 'Walter's Gift'; Washfield N, Kent England; 5/7/98
980252 - Geranium sanguineum 'Album'; Hills of Haw, NC; 2/27/98
980773 - Gomphrena sp.; Campbell Road Nursery, NC; 8/1/98
980252 - Geranium rossianum 'Walter's Gift'; Washfield N, Kent England; 5/7/98
980842 - Fuchsia 'Ballerina Blau'; Landcraft Environment; 5/30/98
980095 - Fuchsia 'Nikki's Findling'; Landcraft Environment; 5/30/98
980858 - Fuchsia 'Brother'; Landcraft Environment; 5/30/98
1998 Accessions

980212 - Helleborus niger 'Poter's Wheel'; P. Delights, NC; 2/19/98
981080 - Helleborus odoratus; Pine Knot Farm, VA; 1 gal; 11/7/98
981093 - Helleborus 'Pamina'; Pine Knot Farm, VA; 6" pot; 11/8/98
980822 - Helleborus Royal Heritage Stain; Briggs N, WA; 8/19/98
981094 - Helleborus 'Snow Queen'; Pine Knot, VA; 6" pot; 11/8/98
980511 - Helleborus thibetanus; Tony Avent, NC; 1 qt; 4/30/98
981070 - Helleborus X Ashwood Gar hybrid; Pine Knot, VA; 1 qt; 11/7/98
981071 - Helleborus X Ashwood Garden hybrid; Pine Knot Farms, VA; 1 gal; 11/7/98
981075 - Helleborus X Ashwood Garden hybrid; Pine Knot Farms, VA; 1 gal; 11/7/98
981069 - Helleborus X Plum Stain; Pam's Early Purple Pine Knot Farm, VA; 1 qt; 11/7/98
980513 - Helleborus X terni; Tony Avent, NC; 1 qt; 4/30/98
980834 - Helleborus X terni; Pam Baggett, NC; 1 gal; 3/29/98
981072 - Helleborus X terni 'Blackthorn Stain'; Pine Knot Farms, VA; 2/27/98
980459 - Hieracium lanatum; Tony Avent, NC; 1 qt; 4/30/98
980884 - Hyacinthoides italic; Portugali Instituto de Bot; seed; 5/9/98
980360 - Hyacinthus orientalis; Edith Eddelman's parents; 4/2/98
980192 - Hydrangea anum subsp. pettorilas; Penders, NC; 1 gal; 8/14/98
980044 - Heuchera americana 'Palace Passion'; Mich GNC; 1 gal; 11/19/98
980932 - Heuchera 'Frosty'; Mich Gardens, NC; 1 gal; 10/7/98
980079 - Heuchera richardsonii; Shaw Arb, MO; seed; 1/13/98
980181 - Hibiscus 'Blue River II'; Mich Gardens, NC; 2 gal; 2/27/98
980459 - Hieracium lanatum; Tony Avent, NC; 1 qt; 4/30/98
980884 - Hyacinthoides italic; Portugali Instituto de Bot; seed; 5/9/98
980360 - Hyacinthus orientalis; Edith Eddelman's parents; 4/2/98
980192 - Hydrangea anum subsp. pettorilas; Penders, NC; 1 gal; 8/14/98
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980192 - Hydrangea anum subsp. pettorilas; Penders, NC; 1 gal; 8/14/98
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980932 - Heuchera 'Frosty'; Mich Gardens, NC; 1 gal; 10/7/98
980079 - Heuchera richardsonii; Shaw Arb, MO; seed; 1/13/98
980181 - Hibiscus 'Blue River II'; Mich Gardens, NC; 2 gal; 2/27/98
980459 - Hieracium lanatum; Tony Avent, NC; 1 qt; 4/30/98
980884 - Hyacinthoides italic; Portugali Instituto de Bot; seed; 5/9/98
980360 - Hyacinthus orientalis; Edith Eddelman's parents; 4/2/98
980192 - Hydrangea anum subsp. pettorilas; Penders, NC; 1 gal; 8/14/98
980044 - Heuchera americana 'Palace Passion'; Mich GNC; 1 gal; 11/19/98
980932 - Heuchera 'Frosty'; Mich Gardens, NC; 1 gal; 10/7/98
980079 - Heuchera richardsonii; Shaw Arb, MO; seed; 1/13/98
980181 - Hibiscus 'Blue River II'; Mich Gardens, NC; 2 gal; 2/27/98
980459 - Hieracium lanatum; Tony Avent, NC; 1 qt; 4/30/98
980884 - Hyacinthoides italic; Portugali Instituto de Bot; seed; 5/9/98
980360 - Hyacinthus orientalis; Edith Eddelman's parents; 4/2/98
980192 - Hydrangea anum subsp. pettorilas; Penders, NC; 1 gal; 8/14/98
980044 - Heuchera americana 'Palace Passion'; Mich GNC; 1 gal; 11/19/98
980932 - Heuchera 'Frosty'; Mich Gardens, NC; 1 gal; 10/7/98
980079 - Heuchera richardsonii; Shaw Arb, MO; seed; 1/13/98
980181 - Hibiscus 'Blue River II'; Mich Gardens, NC; 2 gal; 2/27/98
980459 - Hieracium lanatum; Tony Avent, NC; 1 qt; 4/30/98
980884 - Hyacinthoides italic; Portugali Instituto de Bot; seed; 5/9/98
980360 - Hyacinthus orientalis; Edith Eddelman's parents; 4/2/98
980192 - Hydrangea anum subsp. pettorilas; Penders, NC; 1 gal; 8/14/98
980044 - Heuchera americana 'Palace Passion'; Mich GNC; 1 gal; 11/19/98
980932 - Heuchera 'Frosty'; Mich Gardens, NC; 1 gal; 10/7/98
980079 - Heuchera richardsonii; Shaw Arb, MO; seed; 1/13/98
980181 - Hibiscus 'Blue River II'; Mich Gardens, NC; 2 gal; 2/27/98
1998 Accessions

981168 - Iris unguicularis; Douglass Ruhren, NC; 1 clump; 12/17/98
980607 - Iris virginica 'Pink Haze'; Fairview GC, NC; 5/30/98
981023 - Ita 'Little Henry'; Gossler Farms OR; 1 gal; 10/23/98
980583 - Jasminum sp.; Atlanta Botanical Gar, GA; 4" pot; 5/26/98
980401 - Juglans ailanthifolia; Frank; 1 gal; 4/24/98
980652 - Juniperus occidentalis; Uof California BG; seed; 5/30/98
980372 - Juniperus occidentalis var. occidentalis; Mt. Pisgah, Eugene OR; seed; 4/08/98
980689 - Juniperus scopulorum; Portugal Instituto de Bot; seed; 9/5/98
980892 - Juniperus phoenicea; Portugal Instituto de Bot; seed; 9/5/98
980823 - Juniperus virginiana; Tony Avent; NC; 1 gal; 2/18/98
980827 - Juniperus virginiana var. silicicola 'Brodie'; Head Lee Nursery, SC; 2g; 8/9/98
980878 - Keckiella cordifolia; Strybing Arb, CA; seed; 9/5/98
980856 - Kennedia rubicunda; Strybing Arb, CA; seed; 9/5/98
980314 - Kerria japonica 'Kin Kan'; Barefoot Nur, NC; 3 gal; 3/18/98
981379 - Kerria japonica 'Kin Kan'; Edith Eddleman, NC; BR; 4/8/98
980846 - Kniphofia pumila; Strybing Arb, CA; seed; 9/5/98
980574 - Lablab purpureus; 1 qt; 05/21/98
980398 - Lamium maculatum 'White Nancy'; Mich Garn; NC; 1/11/98
980376 - Lathyrus japonicus; Mt. Pisgah, Eugene OR; seed; 4/08/98
980354 - Lavandula angustifolia 'Rosea'; Park Seed, SC; seed; 4/25/98
980349 - Lavandula 'Alba'; Shepards; 3" pot; 3/28/98
980376 - Lavandula sp.; Atlanta Botanical Garden, GA; 4" pot; 5/26/98
980778 - Lathyrus japonicus; Atlanta BG, GA; 5/30/98
980287 - Menzesia pilosa; Mt. Holyoke College BG; seed; 3/11/98
980365 - Mentha pulegium; Jane Heilman, NC; 4/07/98
980642 - Meliosma myriantha; Chollipo Arboretum, Korea; 5/30/98
981050 - Manfreda sp.; Neil Bell, OSU, OR; T74-39; liner; 11/5/98
981048 - Manfreda sp.; Neil Bell, OSU, OR; T73-89; liner; 11/5/98
980321 - Mahonia repens; Forest Farm, OR; 2 tube; 3/25/98
980135 - M. virginiana 'Silver Savage'; Head-Lee SC; 7 g; 2/5/98
980297 - M. stellata; Tono Association for Shidekobushi Co; 3/12/98
980633 - M. sieboldii; Plant Delights, NC; 12/9/98
980050 - M. grandiflora 'Simmes Select'; Head-Lee SC; 2 gal; 1/11/98
980810 - M. grandiflora 'Simme's Select'; Head Lee, SC; 2 gal; 8/9/98
980812 - M. grandiflora 'Samuel Sommer'; Head Lee SC; 8/9/98
980815 - M. grandiflora 'Maryland'; Head Lee SC; 2 gal; 8/9/98
980814 - M. grandiflora 'Little Gem'; Head Lee SC; 2 gal; 8/9/98
980035 - M. grandiflora 'Little Gem'; Head-Lee SC; 2 gal; 1/12/98
980811 - M. grandiflora 'Highway Way'; Head-Lee, SC; 1 gal; 2/5/98
980813 - M. grandiflora 'Bracken's Brown Beauty'; Head Lee; 8/9/98
980826 - M. grandiflora 'Coco'; Head Lee Nursery, SC; 2 gal; 8/9/98
980811 - M. grandiflora 'D. D. Blanchard'; Head Lee, SC; 8/9/98
980029 - M. grandiflora 'Edith Bogue'; Head-Lee, SC; 2 gal; 1/12/98
980809 - M. grandiflora 'Edith Bogue'; Head Lee, SC; 2 gal; 8/9/98
980046 - M. grandiflora 'Ferruginea'; Head-Lee SC; 2 gal; 1/11/98
980051 - M. grandiflora 'Glen St. Mary'; Head-Lee SC; 2 gal; 1/11/98
980133 - M. grandiflora 'Harold Poole'; Head Lee; 2/5/98
980134 - M. grandiflora 'Highway Way'; Head-Lee, SC; 1 gal; 2/5/98
980035 - M. grandiflora 'Little Gem'; Head-Lee SC; 2 gal; 1/12/98
980814 - M. grandiflora 'Little Gem'; Head Lee SC; 2 gal; 8/9/98
980815 - M. grandiflora 'Maryland'; Head Lee SC; 2 gal; 8/9/98
980810 - M. grandiflora 'Samuel Sommer'; Head Lee SC; 2 gal; 8/9/98
980818 - M. grandiflora 'Simmes Select'; Head-Lee SC; 2 gal; 1/12/98
980023 - M. grandiflora 'Victoria'; Head-Lee SC; 2 gal; 1/12/98
980730 - M. officinalis; Dr. Mike Derr; GA; 2 gal; 6/30/98
981110 - M. sieboldii; Plant Delights; NC; 12/9/98
980297 - M. stellata; Tono Association for Shidekobushi Co; 3/12/98
980135 - M. virginiana 'Silver Savage'; Head-Lee SC; 7 g; 2/5/98
981131 - Magnolia 'Willoowood'; Plant Delights, NC; 12/9/98
980776 - Mahonia nervosa; Washington Park Arb, WA; seed; 8/7/98
980321 - Mahonia repens; Forest Farm, OR; 2 tube; 3/25/98
981048 - Manfreda sp.; Neil Bell, OSU, OR; T74-39; liner; 11/5/98
981050 - Manfreda sp.; Neil Bell, OSU, OR; T74-39; liner; 11/5/98
981067 - Matella sp.; Neil Bell, OSU, OR; T73-27; liner; 11/5/98
981021 - Matella obliqua; NARGS; 1/28/98
981042 - Medicago sativa; Wellspring, SC; seed; 11/1/98
980113 - Melianthus major; NARGS; seed; 1/28/98
980898 - Melianthus major; Portugal Instituto de Bot; 9/5/98
980642 - Meliosma myriantha; Chollipo Arboretum, Korea; 5/30/98
980365 - Mentha pulegium; Jane Heilman, NC; 4/07/98
980393 - Mentha pulegium; Jane Heilman, NC; 4/21/98
980267 - Menziesia pisoi; Mt. Holyoke College BG; seed; 3/11/98
980210 - Mertensia maritima; Plant Delights, NC; 4 pack; 2/19/98
1998 Accessions

980736 - Pavonia lasiopetala; David Creech, TX; 1 gal; 7/14/98
980503 - Penisetum alopecuroides’Little Honey’; Avent; 4/30/98
980114 - Penisetum comperoides; NARGS; seed; 1/28/98
980257 - Penisetum orientale; Hills of the Haw, NC; 1 gal; 2/27/98
980416 - Penisetum orientale; Hofmann s Nursery, NC; 4/27/98
980841 - Penisetum orientale; Hofmann s Nursery, NC; 4/27/98
980422 - Penisetum orientale ‘Tail Tails’; Hofmann’s N, NC; 4/27/98
980071 - Penstemon cobaee var. purpureus; Shaw Arb, MO; 1/13/98
980338 - Penstemon digitalis ‘Husker’s Red’; Mich Garn, NC; 11/98
980502 - Penstemon dissectus; Tony Avent, NC; 1 qt; 4/30/98
980882 - Penstemon pallidus; Shaw Arboretum, MO; seed; 1/13/98
980074 - Penstemon tubaeflorus; Shaw Arboretum, MO; 1/13/98
980557 - Pentas lanceolata; Logee s greenhouse, CT; 2.5 pot; 7/5/98
980558 - Pentas lanceolata; Logee s greenhouse, CT; 2.5 pot; 7/5/98
980780 - Phellodendron sachalinense; Wash Park Arb, WA; 8/7/98
981029 - Philadelphus coronarius’Aureus’; Gossler Farms, NC; 10/23/98
981025 - Philadelphus lemoinei’Belle Etoile’; Gossler Farms, NC; 12/15/98
980588 - Philadelphus sp.Atlanta Botanical Garden, GA; 5/26/98
980533 - Phlox ‘Eco Happy Traveler’; Big Bloomers, NC; 5/2/98
980251 - Phlox paniculata ‘David’Hills of the Haw, NC; 2/12/98
980534 - Phlox ‘Snow White’; Big Bloomers, NC; 5/2/98
980532 - Phlox sp.; Big Bloomers, NC; 5/2/98
980402 - Phlox stolonifera ‘Sherwood Purple’; Mich Garn, NC; 11/98
980537 - Phlox subulata; Big Bloomers, NC; 5/2/98
980535 - Phlox subulata ‘Candy Stripe’; Big Bloomers, NC; 5/2/98
980054 - Phlox subulata ‘Crimson Beauty’; Mich Garn; 1g; 1/11/98
980457 - Phlox subulata ‘Laurel Beth’; Tony Avent, NC; 1 qt; 13/98
980536 - Phlox subulata ‘Red Wing’; Big Bloomers, NC; 5/2/98
980876 - Phlox niitakayamensis; Striving Arb, CA; seed; 9/1/98
980741 - Phlox sp. (Greg Grant); D. Creech, TX; 7/14/18
980752 - Phyllelus X rectus ‘Tommy Knockers’; D Creech, TX; 7/14/18
980450 - Physostegia virginiana ‘Vivid’; Woodlanders Nursery, NC; 5/2/98
980183 - Physostegia virginiana ‘Vivid’; Mich Garn, NC; 5/2/98
980184 - Physostegia virginiana ‘Vivid’; Mich Garn, NC; 5/2/98
980662 - Picea abies; U of California Botanic Gar; seed; 5/30/98
980817 - Picea glauca var. albertiana ‘Comica’; Head Lee, 19/9/98
980643 - Picea pungens; U of California Botanic Gar; seed; 5/30/98
980178 - Pinus bungeana; Morris Arb, PA; 95 X 125; 4” pot; 4/29/98
980182 - Pinus coulteri; U of California Botanic Gar; seed; 5/30/98
980554 - Pinus contorta ssp. murrayana; U of California Botanic Gar; seed; 5/30/98
980665 - Pinus cembra; U of California Botanic Gar; seed; 5/30/98
980657 - Pinus Jeffreyi; University of California Botanic Gar; seed; 5/30/98
980659 - Pinus monticola; U of California Botanic Gar; seed; 5/30/98
980165 - Pinus nigra; Tony Avent, NC; 722-77; liner; 11/9/98
980660 - Pinus parviflora; U of California Botanic Gar; seed; 5/30/98
980661 - Pinus pinaster; U of California Botanic Gar; seed; 5/30/98
980138 - Pinus sabiniana; U of California Botanic Gar; seed; 5/30/98
980651 - Pinus attenuata; U of California Botanic Gar; seed; 5/30/98
980450 - Pinus attenuata; U of California Botanic Gar; seed; 5/30/98
980441 - Pinus bungeana; Morpur Garn, PA; 95 X 125; 4” pot; 4/29/98
980654 - Pinus cembra; U of California Botanic Gar; seed; 5/30/98
980655 - Pinus contorta ssp. murrayana; U of California Botanic Gar; seed; 5/30/98
980665 - Pinus cembra; U of California Botanic Gar; seed; 5/30/98
980657 - Pinus Jeffreyi; University of California Botanic Gar; seed; 5/30/98
980659 - Pinus monticola; U of California Botanic Gar; seed; 5/30/98
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980660 - Pinus pinaster; U of California Botanic Gar; seed; 5/30/98
980661 - Pinus pinaster; U of California Botanic Gar; seed; 5/30/98
980138 - Pinus sabiniana; U of California Botanic Gar; seed; 5/30/98
980662 - Picea abies; U of California Botanic Gar; seed; 5/30/98
980657 - Pinus Jeffreyi; University of California Botanic Gar; seed; 5/30/98
980659 - Pinus monticola; U of California Botanic Gar; seed; 5/30/98
980165 - Pinus nigra; Tony Avent, NC; 722-77; liner; 11/9/98
980660 - Pinus pinaster; U of California Botanic Gar; seed; 5/30/98
980661 - Pinus pinaster; U of California Botanic Gar; seed; 5/30/98
980113 - Pittosporum sp.; Plant Delights, MO; 1 pt; 12/9/98
981059 - Platania lindeniensis; Neil Bell, OSU, OR; 11/5/98
980670 - Plectranthus sp.; 6/5/98
980705 - Plectranthus sp.; 6/5/98
980851 - Podocecamium pachyphyllum; Strying Arb, CA; 9/5/98
980106 - Polianthes aff. geminiflora; Neil Bell, OSU, OR; 11/5/98
980108 - Polianthes ssp. geminiflora; Neil Bell, OSU, OR; 11/5/98
980826 - Polilla japonica; Chollipo Arboretum, Korea; seed; 5/30/98
980294 - Polygonatum pubescens; Mt. Holyoke College; 3/11/98
980489 - Polystichum tsusimense; Tony Avent, NC; 1 qt; 4/30/98
980700 - Porter’s weed; Stowe Botanical Garden; 1 gal; 6/12/98
980725 - Portalucia ‘Yubre’s Gold’; Logan s Trading Post, NC; 6/23/98
980828 - Primula ‘Dale Henderson’; PAX; 3” pot; 9/27/98
980398 - Primula vulgaris ssp. silbhorii; Camellia Forest, NC; 4/30/98
980209 - Primula ‘Wanda Mix’; Plant Delights, NC; 4” pot; 2/19/98
980005 - PrunusJacquemontii; D Creech, S F Austin Arb; 1/6/98
981038 - Prunus laurocerasus ‘Otto Luyken’; Pender N, NC; 10/23/98

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<thead>
<tr>
<th>Accession Number</th>
<th>Plant Name</th>
<th>Origin</th>
<th>Quantity</th>
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Editor’s News

Calendar
Look in the upcoming summer issue of this newsletter for our slate of fall 1999 FOA lectures, workshops and classes.

For those of you in the plant industry, be sure and stop by our booth at the following summer trade shows.

Southern Nursery Association
July 30 - August 1, 1999. 100th Anniversary year. Atlanta, Ga. Contact SNA for further information. Phone: 770-973-9026.

NCAN Charlotte Show

Invasive Species
President Clinton recent issued an executive order entitled *Invasive Species*. Members are highly encouraged to read this order. We have set up a link to this executive order at our website [http://arb.ncsu.edu](http://arb.ncsu.edu)

Look to upcoming issues of this newsletter for comments and discussion of this executive order, which could possibly have a profound impact on all aspects of the plant industry as well as the home garden. There are a lot of rumors about this executive order. Please, read it for yourself. If you don’t have access to the Internet, and can’t bug a friend to get it for you, send a self-addressed stamped envelope to us and we will be glad to mail you a copy. Send it to: JC Raulston Arboretum, Executive Order, Box 7609, Raleigh, NC 27695-7609.

Dragon Watch
We have distributed a plant under the wrong name. If you received a *Cryptomeria japonica* ‘Giokumo’ in any of our distributions, know that it is actually *Cryptomeria japonica* ‘Black Dragon’. The Black Dragon in our collection has been here since Kim Tripp’s days, and is now over 7’ tall, with dark green foliage and upright conical habit. Please don’t let this get confused in your garden or nursery with the shrubbier Giokumo. Both are garden worthy, but produce very different results. Come see our collection of the Japanese cedar varieties. They’re great!

It’s with great sadness we say farewell to two of our part-time staffers, Karen Jones and Douglas Ruhren. Karen is leaving to become a home gardener, raising children along with her vegetables and flowers. We wish her and hubby Chris only the happiest of times. Douglas will continue to volunteer as co-curator of the perennial borders, and inspire all of us with his knowledge and generosity of spirit. Douglas and Karen truly leave the Arboretum a better place. They epitomize what has made the Arboretum great -- quality people who deposit their love along with their physical efforts.

Karen’s range of skills will sorely be missed. Above, she spends a rainy day repairing plastic label-making machines. photo by Jonathan Nyberg

Douglas’s final official act was to design this brilliantly colorful display of winter interest plants at the January, 1999 Green and Growin’ Show in Winston-Salem, NC. photo by Jonathan Nyberg
The JC Raulston Arboretum at NC State University  
Department of Horticultural Science  
Box 7609  
Raleigh, NC 27695-7609  
World Wide Web Address: http://arb.ncsu.edu

*Friends of the JC Raulston Arboretum Newsletter* is published four times a year.  
Jonathan Nyberg, Editor

**JC Raulston Arboretum Staff**

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<tr>
<th>Role</th>
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<tr>
<td>Director</td>
<td>Bob Lyons</td>
<td>515-1192</td>
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<tr>
<td>Development Director</td>
<td>Catherine Maxwell</td>
<td>515-2000</td>
</tr>
<tr>
<td>Program Coordinator</td>
<td>Jonathan Nyberg</td>
<td>515-3132</td>
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<tr>
<td>Volunteer Coordinator</td>
<td>Harriet Bellerjeau</td>
<td>515-3132</td>
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<td>Arboretum Secretary</td>
<td>Pamela Christie-Tabron</td>
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<td>Arboretum Technician</td>
<td>Mitzi Hole</td>
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<tr>
<td>Plant Recorder</td>
<td>Valerie Tyson</td>
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<tr>
<td>Arboretum Volunteer Office</td>
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**Volunteer Curators** (* indicates help needed)

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<tr>
<th>Role</th>
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<tr>
<td>Butterfly Garden*</td>
<td>Chris Allen</td>
<td>732-0902</td>
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<td>Blue Bird Houses</td>
<td>Bill Satterwhite</td>
<td>787-5248</td>
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<td>Blue Conifer Collection*</td>
<td>Guy Meilleur</td>
<td>387-7045</td>
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<td>Entrance Gardens</td>
<td>Pam Baggett</td>
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<tr>
<td>Iris Curator</td>
<td>Catherine Gaertner</td>
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<td>Japanese Garden*</td>
<td>Dan Howe</td>
<td>848-5462</td>
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<td>JC Raulston Archives</td>
<td>Mary &amp; Claude Caldwell</td>
<td>515-3132</td>
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<td>Labeling*</td>
<td>Tom Bumgarner</td>
<td>231-7450</td>
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<td>Labyrinth</td>
<td>Natalie Sadler</td>
<td>968-6921</td>
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<td>Lath House*</td>
<td>Bob Roth</td>
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<td>Magnolia Curator</td>
<td>Pat McCracken</td>
<td>365-7878</td>
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<td>Mixed Shrub Border*</td>
<td>Amelia Lane</td>
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<td>Paradise Garden</td>
<td>Frankie Fanelli</td>
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<td>Perennial Borders*</td>
<td>Edith Eddleman</td>
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<td>Rose Garden</td>
<td>Harvey Bumgardner</td>
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<td>Southwest Garden*</td>
<td>Anne Clapp</td>
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<td>T-shirt Coordinator</td>
<td>Ken Zearfoss</td>
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<td>Tour Guide Coordinator</td>
<td>Fran Johnson</td>
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<td>Visitor Center Coordinator*</td>
<td>Kathleen Thompson</td>
<td>469-0991</td>
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<td>Volunteer rep. to Arboretum Board</td>
<td>Anne Clapp</td>
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<td>Volunteer Office*</td>
<td>Harriet Bellerjeau</td>
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<tr>
<td>Water Garden</td>
<td>Alicia Berry</td>
<td>829-2524</td>
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<td>White Garden</td>
<td>Susan Cheatham</td>
<td>834-7095</td>
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<tr>
<td>Garden of Winter Delights</td>
<td>Jonathan Nyberg</td>
<td>688-0240</td>
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<tr>
<td>Wisteria Garden*</td>
<td>CJ Dykes</td>
<td>856-8012</td>
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we’ve recently completed. We’re running faster, we’re upgrade-ready for future software innovations, and we’ve put a computer into the volunteer office for improved communications, printing, and access to JCRA information.

Widespread incorporation of information technology is an issue we’ll constantly face with open arms. Apart from our website (http://arb.ncsu.edu) which is generously maintained by Dr. Arthur Kelley, we’ve got a couple other mechanisms to keep ourselves and others “in the loop.” Vivian Finklestein, another tireless volunteer, worked with Art to initiate an email listserv for volunteer guides, but anyone is welcome to subscribe and participate.....and all of us hope you will! Its main purpose is to permit and encourage rapid access to very timely happenings at the JCRA for possible guide use in upcoming tours. I hope that such discussions will also make novice guides more at ease with their roles after “listening in” on anything from historical perspectives, curator comments, personal impressions from recent visits, and the appearance of noteworthy plant features. To get on board, send an email to “guides@arb.ncsu.edu” (don’t use the quote marks) and in the SUBJECT line of your email, type the word “subscribe” but leave off the quotes again. A reply goes to everyone on the list, which is great if you have a question needing quick attention.

And speaking of tour guides, I recently conducted the final training tour for the new group coming up through the ranks. It is a pleasure to work with people who donate their time and then share their enthusiasm for the JCRA with others via touring. Thanks! Now, if you’d simply like to get some fast accounts of what’s happening at the JCRA each week, then you’re welcome to be added to my special email list of JCRA current plant events. It currently goes to the entire Horticultural Science department throughout the state and is freely passed along to other email groups by recipients. Each Sunday or Monday I post a few bullets of timely observations based on my own walks through the JCRA........what’s in flower at the moment, what happened to those plants that used to be there, what’s that curator doing......you get the picture. This is not a listserv so if you want on, please send me an email (bob_lyons@ncsu.edu); I’m happy to add you.

Well, there’s much more to talk about but, before I close, I’d like to extend special thanks to two very important people to the JCRA. Karen Jones and Doug Ruhren have been associated with us informally for a long time, eventually being employed as the Klein-Pringle White Garden Curator (Karen) and JCRA Horticulturist (Doug; who also shares Perennial Border curatorship with Edith Eddleman). Their departures won’t mean an absence, however, they are just getting way too busy. Their talents and insights will be missed but never far off. Thanks to both of you!

I guess I’ll sign off with a reminder to check out our annual listing of new acquisitions at the JCRA in this issue, it’s a long one! Stay tuned, spread the word, and visit often!

Bob Lyons