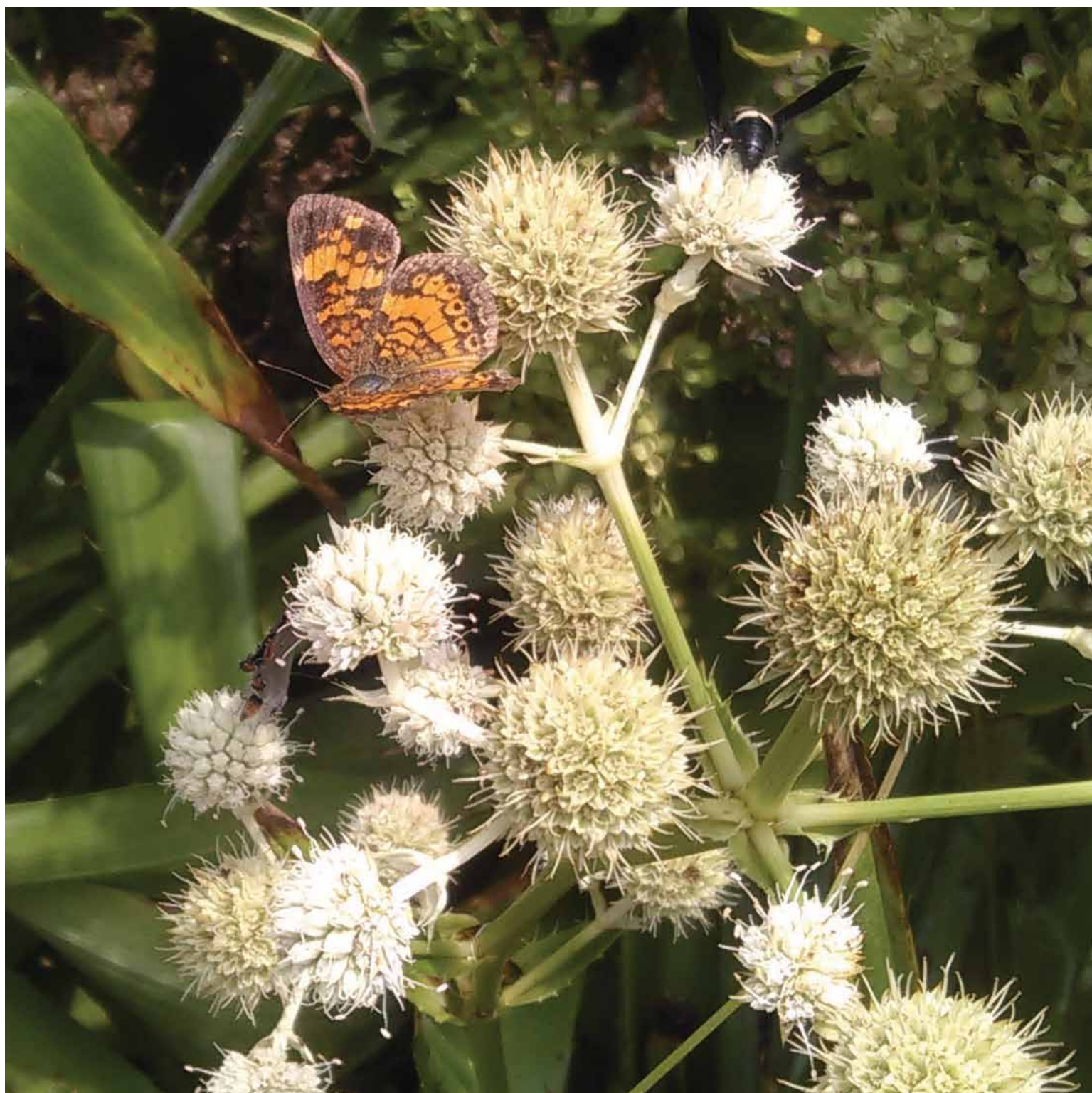


NORTH CAROLINA
BOTANICAL
GARDEN

CONSERVATION GARDENER

SPRING & SUMMER 2016



THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

IN THIS ISSUE

ON THE COVER

Northern rattlesnake-master

Eryngium yuccifolium

Illustration by Dot Wilbur-Brooks



*To inspire understanding, appreciation, and conservation of plants
and to advance a sustainable relationship between people and nature.*

Past, present and future

BY DAMON WAITT, NCBG DIRECTOR

Dear Members and Friends,

Welcome to this first issue of the *Conservation Gardener*, the North Carolina Botanical Garden's new magazine for members. By the time this inaugural issue reaches your mailbox, the Garden will be celebrating its 50th anniversary and I will have completed my first year as the Garden's first full-time director. Past, present and future is our theme this year and how fitting it is to launch a new vehicle to share information about what it means to be a conservation gardener with our members and friends.

Since opening its first trail in 1966, the North Carolina Botanical Garden has been a leader in botanical education, conservation and research in the state of North Carolina and beyond. We maintain and protect more than 1,100 acres of land in gardens, parks, preserves and conservation easements. We offer a remarkable natural environment to more than 100,000 visitors each year. We offer extensive educational programming focused on North Carolina's native flora, horticulture, ecology, conservation and botanical art to over 9,000 people annually in more than 120 lectures,

workshops and classes. We serve over 8,000 children each year through field trips and school outreach and offer more than 40 on site programs designed to connect children and families to the natural world through summer camps, early childhood classes, afterschool and homeschool programs.

There is no question we are doing all the right things to inspire understanding, appreciation and conservation of plants and to advance a sustainable relationship between people and nature. The real question is, what can you do to better understand, appreciate and conserve North Carolina's natural heritage and build a more sustainable relationship with the natural world?

Enter the *Conservation Gardener*. In the pages of this issue you will meet North Carolina's 2016 Wildflower of the Year, Northern rattlesnake-master, discover how to order seeds, and put this plant to use in your landscape. We also introduce you to Emerald Ash Borer, an invasive exotic insect, and how you can help prevent the spread of this major threat to our nation's ash trees.

SPECIAL THANKS

There is so much to be thankful for as I reflect back on my first year as Director. We belong to the University of North Carolina at Chapel Hill, the finest public research university in the nation. We have an amazing and dedicated staff with expertise and institutional knowledge that would be the envy of any public garden. We delight in the fellowship of hundreds of volunteers whose time and talent is vital to our operation. And we benefit from the wisdom and support of the Botanical Garden Foundation (also celebrating its 50th anniversary) and 3,200 members like you.



Lastly, we provide you with step-by-step instructions to create a beautiful pollinator garden and recommend specific native plants that will support pollinator health.

And, there is one more thing you can do. A week or two ago you received our Spring Appeal asking you to renew your membership and take advantage of a new member benefit that gives you special admission privileges and discounts at 300 gardens and arboreta throughout North America. Please show your support for the Garden by making a gift and renewing your membership. We have planned special exhibits, events and programs all year long and we hope you will join us in celebrating this milestone in the Garden's history.



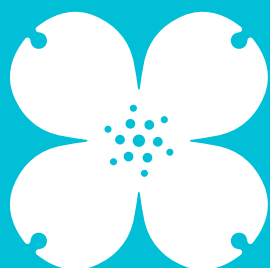
IN THE
GARDEN
SHOP
JEWELRY

Pressed Wildflower Jewelry

By Sunshine Design. Real North Carolina flowers, hand-collected, dried and carefully mounted on a hand-painted background.

\$12-26





NORTH CAROLINA
BOTANICAL
GARDEN

North Carolina Botanical Garden

DAMON WAITT *Director*

NANCY EASTERLING *Education*

CHARLOTTE JONES-ROE *Development*

JOHNNY RANDALL *Conservation*

JIM WARD *Horticulture*

ALAN WEAKLEY *Herbarium*

Botanical Garden Foundation Officers

GREG FITCH *President*

MISSY RANKIN *Vice President*

STEPHEN A. RICH *Treasurer*

JAN DEAN *Secretary*

Conservation Gardener

JENNIFER PETERSON *Managing Editor*



Transformation

BY JENNIFER PETERSON, MANAGING EDITOR

I find that working at the Garden compels me to tune in to the seasons and appreciate how the landscape changes throughout the year. From the excitement of the first spring ephemerals in the Mountain Habitat, to the brilliant yellows in the Coastal Plain Habitat each fall, and all of the other botanical anniversaries throughout each year, I delight in the constant transformation.

This past year has been filled with a lot of change at the North Carolina Botanical Garden, too. A year ago, we were welcoming our new director to the Garden family. With Dr. Waitt's leadership, we are embarking on several new adventures and making some subtle changes to how we communicate with you, our members.

One of the obvious changes is this, the first edition of the *Conservation Gardener*! As editor, I especially hope you enjoy our new magazine. Twice each year, we will fill the pages with the latest conservation news and information you can use at home.

We have also launched a new electronic newsletter. This is where you will find updates on events, programs, and more. If you aren't receiving these messages, sign up! You can do so at ncbg.unc.edu/ewsletter.

And perhaps one of our biggest and most obvious changes is our new logo system! You might recognize the image as a dogwood (*Cornus florida*). We chose the dogwood because it is North Carolina's state flower and we are the state garden of North Carolina. There are some other interesting features included in this logo, too. If you want to find out more about the logo go to ncbg.unc.edu/logo.

The rebranding process took a lot of work and help from a variety of people. A big thank you goes out to Rivers Agency and UNC Creative for their professional design expertise. We also had an internal group of staff whose insight was invaluable. The group included Allison Essen, Chris Liloia, Geoffrey Neal, Cricket Taylor, Elisha Taylor and Damon Waitt. Thank you!

While change is exciting, it is also comforting to know some things never change. Here at the Garden, you will always find the Paul Green Cabin, the Storyteller's Chair, and of course, North Carolina flora in all its beauty. And, as our communication methods transform, you can rest assured that our first priority is still to serve the southeastern United States as a leading conservation garden.



NORTH CAROLINA
BOTANICAL
GARDEN



Meet Northern rattlesnake-master

North Carolina's 2016 Wildflower of the Year

BY HEATHER SUMMER, NCBG SEED PROGRAM COORDINATOR

Northern rattlesnake-master (*Eryngium yuccifolium*), an unusual prairie species native to the eastern and central United States, has been named the 2016 North Carolina Wildflower of the Year.

With a basal clump of leathery strap-like, blueish green leaves and a single upright flowering stalk, this distinctive species more closely resembles a yucca plant than its closest relatives in the carrot family (Apiaceae). Northern rattlesnake-master is a great garden plant for the interesting form and texture provided by its leaves, flower clusters and seed heads.

In mid- to late-summer, a single stiff stem topped with round, spikey flower clusters rises two to four feet from the clump of yucca-like leaves. Each cluster is composed of many small, tightly arranged flowers with white to pale green petals and pointy bracts, giving the appearance of small, bristly golf balls. The flowers attract a steady abundance of incredibly diverse pollinators including native bees, wasps, flies, butterflies, moths and beetles. Upon ripening in the fall, the seed heads look nearly identical to the flower clusters, except they are brown in color. Both the

flowers and persistent seed heads can be interesting additions to cut flower arrangements, and the tough leaves and flowers are fairly deer and rabbit resistant.

Northern rattlesnake-master has a long and interesting history of human use. Perhaps the earliest known use of this species dates back 8,000 years, when prehistoric North Americans used the fiber from its thick leaves to make shoes and sandals. The common name of this species comes from early 18th century accounts of Native Americans applying a root preparation to their hands and arms to protect them while handling rattlesnakes, and brewing a root tea to use as rattlesnake antivenin.

Northern rattlesnake-master occurs throughout North Carolina along sandy roadsides, prairies and open woods, and prefers open, sunny sites with dry to average, well-drained soil. It will become spindly in the shade and will decline rapidly if planted in poorly drained soils. Given the right conditions, this species will produce a sturdy taproot and become a tough, long-lived, drought-resistant perennial.



Use Northern rattlesnake-master as an accent plant or dramatic focal point in a sunny perennial bed or pollinator garden with butterfly milkweed (*Asclepias tuberosa*), black-eyed susan (*Rudbeckia hirta*) and asters (*Symphyotrichum* spp.).

For a Wildflower of the Year brochure and packet of Northern rattlesnake-master seeds, send a stamped, self-addressed, business envelope with attention to NCWFOY 2016 to North Carolina Botanical Garden, UNC-Chapel Hill, CB 3375, Chapel Hill, NC 27599-3375.

The North Carolina Botanical Garden and the Garden Club of North Carolina work together to promote the use of native plants in home gardens. Each year since 1982, a showy native perennial has been chosen and seeds of that wildflower are distributed to interested gardeners. To view a list of the past North Carolina Wildflowers of the Year, visit the Garden's website: ncbg.unc.edu/north-carolina-wildflower-of-the-year.



IN THE
LIBRARY

Almost 200 years ago, the 2016 North Carolina Wildflower of the Year was being cultivated in England under the name "Yucca-leaved Eryngo."

The color image to the right appeared in *The Botanical Register*, Vol. V, 1819, drawn from a plant growing in the Frasers' Nursery in Sloane Square, London, England.

The Botanical Register, later known as *Edward's Botanical Register*, was an illustrated botanical magazine that ran from 1815 to 1847. Botanical illustrator Sydenham Edwards was the primary illustrator of the earlier *The Botanical Magazine* (*Curtis's Botanical Magazine*) until he left in dispute with the editors to begin his own publication which ran for 33 volumes.

In England, the early horticultural magazines were published in sturdy book form with beautiful images of hand-colored engravings from noted botanical illustrators of the period. The North Carolina Botanical Garden is fortunate that The Botanical Garden Foundation's William L. Hunt Library contains all 33 volumes.

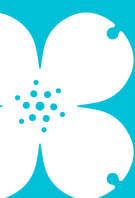




This is a trail in the
NORTH CAROLINA
BOTANICAL GARDEN

You are invited to walk the trail at different seasons, to enjoy the changing variety in nature, to observe the development of the Garden, and to suggest appropriate ways in which the Garden may better serve its purposes of conservation, education, and research.

C. R. Bell, Director
10 April 1966



Celebrating 50 Years of Conservation



Fifty years ago, on April 10, 1966, the North Carolina Botanical Garden opened its first offering to the public, the Piedmont Nature Trails.

However, the vision for the Garden started much earlier. William Chambers Coker and his student Henry Roland Totten proposed a botanical garden south of the main UNC campus in the late 1920s. Although some plantings were made by the 1940s, it was in

been at the core of its work. In 1961, C. Ritchie Bell, a professor of botany and tireless promoter of the flora of North Carolina, was appointed the Garden's first director, and work to open a public site for the appreciation of North Carolina's plants began in earnest.

As the Garden grew beyond the nature trails, students, volunteers and a growing staff constructed "habitat gardens," displays representing the major plant

Through Propagation," advocating for native plants to be grown from seeds and cuttings rather than collected from their natural habitats.

The Garden also became a steward of natural areas in partnership with the Botanical Garden Foundation. They currently care for over 1,000 acres of land, including display gardens and nature preserves.

Through demonstration, forward-thinking policies, and its own conservation projects, the North Carolina Botanical Garden became known as a Conservation Garden, coining the term and setting an example for other public gardens across the country.

In addition to a focus on conservation, the Garden has acquired responsibility for other major sites during the past 50 years: Coker Arboretum, a beloved garden on the central campus of UNC-Chapel Hill; Mason Farm Biological Reserve, a tract of old farmland and ancient woodlands that provides wildlife habitat and research facilities for diverse projects; Battle Park and Forest Theatre, a well-loved, longstanding natural area bordering the UNC-Chapel Hill campus; the University of North Carolina Herbarium, home to more than 800,000 plant specimens; and the Carolina Campus Community Garden, a vegetable garden that provides fresh vegetables to UNC-Chapel Hill housekeeping staff.

Today the North Carolina Botanical Garden is nationally known for its conservation practices, educational programs and display gardens. Join the Garden during 2016 for a variety of events celebrating 50 years as a conservation garden. Find out more at ncbg.unc.edu/ncbg50.



Henry Totten with students in 1958

1952 that the university Board of Trustees dedicated 70 forested acres for botanical garden development. William Lanier Hunt, a horticulturist and former student of Coker and Totten, added 103 acres of dramatic creek gorge and rhododendron bluffs to this tract. Hunt also helped to found the Garden's membership support organization, the Botanical Garden Foundation, in 1966.

Throughout the Garden's history, conservation and native plants have

communities of the state and illustrating the theme of botanist B.W. Wells's book *The Natural Gardens of North Carolina*. In addition to promoting native plants through display, the Garden sought to help gardeners across the state understand the importance of conserving these plants.

Encouraged by the North Carolina Wild Flower Preservation Society (now the North Carolina Native Plant Society), the Garden promoted "Conservation

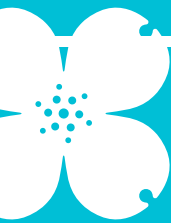




1903
William Chambers Coker
begins Coker Arboretum



1961
C. Ritchie Bell
becomes first
director



50TH CELEBRATION

Join us for a variety of programs and celebrations in honor of our 50th anniversary!

And be sure to stop by mid-May through mid-August for an exhibit about our history.

DETAILS AT
NCBG.UNC.EDU/NCBG50

Mark your calendars for a big 50th anniversary celebration in Chapel Hill on October 22!

1952
Trustees approve
creation of the North
Carolina Botanical
Garden

1966
Piedmont Nature
Trails open, the
Garden's first
offering; Botanical
Garden Foundation
incorporated



BIRD PHOTO CONTEST & SHOW

Calling all shutterbugs! Grab your camera and take some photos of North Carolina's native birds! Cash prizes will be awarded in adult and youth categories. Photos are due October 16. *Photo by Mike Dunn.*

DETAILS AT
NCBG.UNC.EDU/PHOTOCONTEST





1982
NC Wildflower of the Year program begins; management of Coker Arboretum and Mason Farm Biological Reserve moved to NCBG

2004
Management of Battle Park and Forest Theatre moved to NCBG

2015
Damon Waitt becomes third director

1976
Totten Center dedicated

1986
Peter White becomes second director; Coastal Plain boardwalk installed

1998
NCBG becomes the first botanical garden to establish an exotic plant policy

2009
James & Delight Allen Education Center opens





**DEBERRY
GALLERY
EXHIBITS**

On display through April - Stunning film photographs by Jennifer Parker welcome you into a timeless universe of elegance, drama and unexpected mystery. *Deep Focus* captures a place where the commotion of everyday life ceases and one can pause in the natural flow of beauty.

COMING IN MAY...OIL PAINTINGS BY SALLY SUTTON





Invasive Exotic Insects Threatening Our Native Forests

Emerald Ash Borer in North Carolina

BY CATHERINE BOLLINGER

It doesn't look like a dangerous alien, does it – this tiny iridescent green insect? But since June 2002, this invader from Asia, the Emerald Ash Borer (EAB), has already killed almost every ash tree species (*Fraxinus spp.*) in the Ontario and Quebec provinces in Canada and is at least present in most US states east of the Mississippi from Minnesota

distributed ash species in the United States – flourishes in a variety of soil types and is often abundant along waterways and in wetlands. Large gaps in the canopy are left when all the ash trees in local ecosystems die.

Affected Southeastern US Ash Species



Aerial photo of EAB-induced ash tree mortality in Wisconsin, August 2013

Photo by Bill McNee, Wisconsin Dept. of Natural Resources, Bugwood.org

to Louisiana. It was confirmed to be present in North Carolina in 2013 and is currently moving north to south across the state.

Female EABs lay their eggs in bark crevices of ash trees. Tiny larvae hatch in mid-summer and chew their way through the outer bark to the inner bark and into the sapwood. These tree tissues transport food and water between roots and leaves. Feeding larvae create winding tunnels, called galleries, which completely disrupt the food and water transport systems of the tree. Deprived of food and water, branches begin dying until the entire tree is dead. Once an infestation arrives, most – often nearly all – ash tree species die within a few years.

The potential ecological and economic impacts of the obliteration of North American ash tree species are almost too enormous to contemplate. According to national inventory data, the United States contains more than eight billion ash trees of 16 different species in its eastern forests. Additionally, certain ash species and their cultivars are planted routinely to enhance urban/suburban landscapes. Several ash species are key components of the overstory of forest ecosystems in which they occur. For example, Green Ash (*Fraxinus pennsylvanica*) – the most widely

In the southeastern United States, four species of ash are native. Three are wetland species:

- Green Ash (*Fraxinus pennsylvanica*)
- Carolina Ash (*F. caroliniana*)
- Pumpkin Ash (*F. profunda*)

Green Ash is the most common species and is often a dominant overstory component of wetland ecosystems.

White Ash (*F. americana*) is the other species commonly found in the southeastern United States. It naturally occurs on deep, well-drained soils, and its wood has been used for centuries to make fine furniture, baseball bats and any other wooden item required to be strong and lasting. Additionally, it has been used extensively as a landscape tree in urban and suburban settings.

Southeastern US Animals that Rely on Ash Trees

Humans aren't the only living creatures who have relied on ash trees for centuries. According to Dr. Douglas W. Tallamy in his book *Bringing Nature Home: How You Can Sustain Wildlife with Native Plants*, ash trees support at least 150 species of moths and butterflies – more than hazelnut, walnut, beech or chestnut. These include Promethea and Apple Sphinx Moths, and Eastern Tiger Swallowtail and Mourning Cloak butterflies.

A FEW DEFINITIONS

Exotic: Any plant/animal/fungus/bacterium not indigenous to the southeastern US. Synonyms for the term exotic include non-native, alien, non-indigenous and introduced.

Invasive exotic: Any exotic species that threatens the survival or reproduction of native plants or animals, or threatens to reduce biological diversity.

Overstory: The uppermost level of vegetation in a forest, usually forming the canopy.

Southeastern US Native: An indigenous, regionally native plant/animal/fungus/bacterium.

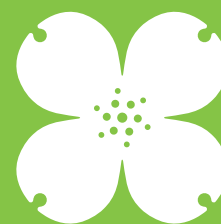
Systemic insecticide: A water-soluble poison that can be absorbed by a plant and moved around in its tissues. Such pesticides are usually either injected into a plant or applied to its root system, where they are absorbed.

Weed: A plant growing in the wrong place. Most weeds are annual or biennial herbaceous plants and may be native or exotic in origin. Although weeds are considered to be troublesome or unsightly, they do not threaten biological diversity.

FOR FURTHER READING

For more information about invasive insects, including Laurel Wilt, Gypsy Moth and Hemlock Woolly Adelgid, please go to:

ncbg.unc.edu/emerald-ash-borer



Ash trees are important sources of browse and cover for deer. Seeds are consumed by wood ducks, northern bobwhites, purple finches, pine grosbeaks, fox squirrels, mice and many other birds and small mammals. Because of their tendency to form trunk cavities when their tops are broken, mature ashes are highly valued as nesting sites by woodpeckers, wood ducks, owls, nuthatches and gray squirrels. Green Ash woodlands often shelter the highest numbers of bark-foraging and ground-nesting bird species.

What will happen to these animals if almost every ash tree in North America dies? No one can predict the future with certainty, but we can look at what has already happened in southeastern Michigan, where massive gaps in forest cover have favored the invasion of invasive exotic plant species. Japanese honeysuckle (*Lonicera japonica*), for example, is starting to overwhelm woodlands the way kudzu (*Pueraria lobata*) does in the Southeast. Soil chemistries are changing, as are water cycling patterns, making it more difficult for remaining native species to maintain themselves. As ash-feeding insects disappeared, so did the birds that fed on those insects.

“Currently, there is not much we are able to do to prevent widespread ash mortality. But I am also optimistic that things will change.”

What is Being Done to Save Our Ash Trees?

“Research is ongoing,” says Kelly Oten, Forest Health Monitoring Coordinator for the North Carolina Forest Service. She notes, “Currently, there is not much we are able to do to prevent widespread ash mortality. But I am also optimistic that things will change.”

Oten notes that when a new invading species attacks our forests, there is always a learning curve as scientists study the new threat and devise ways to counteract it. A great example in North

Carolina is the gypsy moth, which is now controlled to minimize damage, Oten notes.

Until controls are developed, Oten says our best bet is to buy scientists as much time as possible to study the EAB by:

- tracking its progress by using strategically placed traps and via reports from scientists and citizens who can provide information about confirmed sightings.
- encouraging all North Carolinians to use only local firewood. These pests can be inadvertently moved hundreds of miles by hitchhiking on or in untreated firewood.
- introducing beneficial wasp species that attack and kill EAB. This tactic is in the experimental stage now. But if it works, it will serve in the short term to slow the spread of EAB, and perhaps eventually help control the pest in the long term.
- strategically using systemic insecticides to protect ash trees in urban and home landscapes as well as parks and near trailheads.

Oten notes, “Not only do [protected] trees add aesthetic value, but they could become a hazard to property and/or people if they begin to die.” She adds that estimates for some chemicals indicate that trees can be protected

from EAB for 20-30 years for the same amount of money it would cost to remove them.

“Our hope,” Oten notes, “is that we can provide landowners with the knowledge needed to make management decisions themselves, as each decision is not only personal, but will be based on many factors ... One of the key things we’re urging landowners to consider is the speed at which EAB is spreading in NC. The natural spread of EAB is relatively slow. For many areas in NC, it will likely be years before EAB reaches them, and



Emerald Ash Borer larval galleries
Art Wagner, USDA-APHIS, Bugwood.org

those are years that trees could put on valuable growth or continue to provide shade and aesthetic value. On the flip side, EAB has shown us that it can show up suddenly in new areas hundreds of miles from the nearest known infestation, so frequent monitoring is a must.”

Individuals can aid scientists by using only locally harvested firewood, by reporting any sightings of EAB, and by staying informed about the status of EAB and any emerging controls for it in their area. Public gardens, such as the North Carolina Botanical Garden, that are members of the American Public Gardens Association have access to its Sentinel Plant Network which provides training, equipment and educational outreach materials to help gardens keep their members informed about emerging pests and diseases.

Saving for Tomorrow

Scientists throughout North America are studying ash species native to Asia,



Seeds of Green Ash
(*Fraxinus pennsylvanica*)
Catherine Bollinger, piedmontgardener.com

which is also the home of the EAB. Asian ashes appear to be resistant to EAB devastation, and the hope is that this genetic resistance can be incorporated into North American ash species in the future. To ensure they have viable ash tree seeds to work with, the USDA Forest Service's National Seed Laboratory (NSL) is coordinating the collection of ash tree seeds from as many species and locations as possible. Landowners with healthy ash tree populations can contribute seeds collected from their trees by following instructions provided on the NSL's Web site.

Other Imminent Invasive Exotic Species Threats to Our Forests

Unfortunately, Emerald Ash Borer is not the only invasive exotic species threatening the health of our native forests. When asked to list what she considers to be the top five invasive exotic species threats to our native southeastern forests, Kelly Oten lists:

- Emerald Ash Borer
- Laurel Wilt – a disease introduced by a non-native insect (Redbay Ambrosia Beetle) that is destroying key coastal wetland species including redbay (*Persea borbonia*) and spicebush species (*Lindera* spp.).
- Thousand Cankers Disease – introduced by the Walnut Twig Beetle, this fungal disease is devastating Black Walnuts and related species.
- Gypsy Moth – The caterpillars of this invader defoliated trees in the Northeast before controls were developed to moderate its impacts.
- Hemlock Woolly Adelgid – This tiny insect that has killed hemlock forests throughout North Carolina came from Japan. Populations are now established from northeastern Georgia to southeastern Maine and as far west as eastern Kentucky and Tennessee.



NC Forest Service Emerald Ash Borer monitoring trap

Kelly Oten, North Carolina Forest Service, Bugwood.org

Landowners and other interested individuals are advised to remain informed about these threats and additional ones that may emerge in the future via information provided by government agencies and other interested organizations, such as public gardens.

A writer and editor for over 30 years, Catherine Bollinger prefers to write about botanical subjects whenever she can. For the last six years, she has been blogging about her landscape at www.piedmontgardener.com.



A celebration of native plants

A festival celebrating native plants and highlighting our display gardens and habitats. Featuring the sale of native plants from NCBG and local nurseries, as well as live music, food trucks, tree climbing and a raffle. Admission is free and all are invited.

MAY 21, 4-8 P.M.





Tiger swallowtail on Purple-Coneflower
(*Echinacea purpurea*)
Barbara Driscoll

Plant a beautiful pollinator garden

Pollinators are vital to agriculture, yet they are in decline for a variety of reasons. While this is a large-scale problem, one solution can be found in your backyard! By choosing plants that help pollinators, you can make a real difference and support thousands of vital insects.

Here are some basic steps to ensure a wonderful garden for both you and native pollinators

1. Use native plants ... many native pollinators prefer them, and some rely solely on them. Avoid cultivars as they often fail to produce nectar, pollen, or seeds.
2. Choose a variety of plants that will bloom throughout the season ... this makes for a more pleasing garden and also ensures that you will have food for different pollinators. Some pollinators are only active in early spring, late summer, or fall, while others are active all season.
3. Use a mixture of nectar and host plants ... both types of plants are important, and some native plants fulfill both needs. Butterflies and moths lay eggs on or near host plants so the emerging caterpillars can eat the leaves. You are growing food for the caterpillars, and the

host plants will regrow the foliage that is lost.

4. Cluster plants of the same species ... this makes it easier for pollinators and caterpillars to feed and graze.
5. Include various colors of flowers ... different pollinators prefer different colors. The greater diversity of flower color you have, the more pollinators will visit your garden.
6. Don't use insecticides! ... even those labeled "organic" are often deadly to pollinators. Pollinators eat or graze on all parts of plants, so anything sprayed on any part of the plant can kill pollinators.
7. Use native grasses ... grasses provide structure in the garden, and many pollinators rely on grasses for reproduction and food.

Keep in mind that you are creating an ecosystem that will provide native insects with food, shelter and water. Dead wood, flower stalks and leaf litter are a great habitat for insects. In fact, many insects, including lightning bugs and some butterflies, actually require leaf litter for their larvae. Rock and water features also benefit pollinators while enhancing the beauty of your garden.



FOR YOUR GARDEN

NECTAR-PROVIDING PLANTS

PERENNIALS Aster (*Symphyotrichum* spp., *Eurybia* spp., *Ionactis linariifolius* and *Ampelaster carolinianus*) • Beebalm/ Bergamot (*Monarda* spp.) • Black-eyed-Susan (*Rudbeckia* spp.) • Blazing Star (*Liatris* spp.) • Boneset (*Eupatorium* spp.) • Green and gold (*Chrysogonum virginianum*) • Goldenrod (*Solidago* spp.) • Joe-pye weed (*Eutrochium* spp.) • Milkweed (*Asclepias* spp.) • Mountain-mint (*Pycnanthemum* spp.) • Passionflower (*Passiflora* spp.) • Pea family (*Baptisia* spp., *Thermopsis villosa*, *Centrosema virginianum*) • Purple coneflower (*Echinacea purpurea*) • Rattlesnake-master/Eryngo (*Eryngium* spp.) • Skullcap (*Scutellaria* spp.) • Sunflower (*Helianthus* spp.) • Tickseed (*Coreopsis* spp.)

SHRUBS Beautyberry (*Callicarpa americana*) • New Jersey-tea (*Ceanothus americanus*) • Ninebark (*Physocarpus opulifolius*) • Serviceberry (*Amelanchier arborea*) • Sweet pepperbush (*Clethra alnifolia*) • Virginia sweetspire (*Itea virginica*)

HOST PLANTS

Caterpillars need specific plants for food. Butterflies will lay their eggs on or near these plants

PERENNIALS Beardtongue (*Penstemon* spp.) – Buckeye and Checkerspots • Pipevine (*Isotrema* spp.) – Pipevine Swallowtail • Golden Alexanders (*Zizia aurea*) – Black Swallowtail • Milkweed (*Asclepias* spp.) – Monarch • Passion flower (*Passiflora* spp.) – Fritillaries, Hairstreaks

SHRUBS Spicebush (*Lindera benzoin*) – Spicebush Swallowtail • Winged Sumac (*Rhus copallinum*) – Red-banded Hairstreak

TREES Oak species (*Quercus* spp.) – multiple pollinators including several species of hairstreaks and moths • Paw Paw (*Asimina triloba*) – Zebra Swallowtail • Sassafras (*Sassafras albidum*) – Spicebush Swallowtail • Tulip-trees (*Liriodendron tulipifera*) – multiple pollinators including Eastern Tiger Swallowtail

GRASSES Many pollinators rely on grasses for reproduction and food. • Hairgrass (*Muhlenbergia capillaris*) • Little bluestem (*Schizachyrium scoparium*) • Switchgrass (*Panicum virgatum*)



Native Bumble Bee on
Butterfly milkweed (*Asclepias tuberosa*)
Photo by Barbara Driscoll

THANK YOU!

to all who have supported the Garden
from July 1, 2014 to June 30, 2015.

\$250,000 and above

The Soo Foundation
Catherine E. Nerantzis
Jeffrey and Eileen Soo
Kenneth Soo
Liang Y. and Dixie L. Soo
Michael Soo

\$100,000 - 249,999

Estate of Karla Reed

\$50,000 - 99,999

Marcella and Paul Grendler
Syngenta Crop Protection, Inc.

\$25,000 - 49,999

Bill and Rosalie Olsen

\$10,000 - 24,999

Anonymous
Rebecca and Munroe Cobey
Chicita Culberson
Rufus and Linda Edmisten
Lucinda Gordon
Grace Jones Richardson Trust
James and Dorothy Hardin
Glenda Parker Jones
Julia E. Irwin Charitable
Lead Annuity Trust
Nolan D. Lovins
Harriet and D.G. Martin
Florence and James Peacock
Janice C. Swab

\$5,000 - 9,999

Anonymous (2)
Ann and Lex Alexander
Bruce and Paula Alexander
James and Delight Allen
Pam and Bill Camp
Dorrie Casey and Archie Purcell
Center for Plant Conservation
Challenge Fund
Cindy K. and Tom Cook
E. Craig Wall Sr. Foundation
Fox Family Foundation
Joan H. Gillings
Greater Horizons Foundation
James Joslin
Anne F. Harris
Thomas S. Kenan
Paul and Mary MacDougal
Michael and Julia McVaugh
Newman Catholic
Student Center Parish
Jennifer Parker and Pete Rosenberg
Margaret P. Parker
Catherine A. Pascal
Linda and Stuart Paynter
Vikram Rao and Susan Henning

Adele R. Ray
Stephen and Sandra Rich
Ron Strom and Cathy Pascal
The Alben F. Bates &
Clara G. Bates Foundation
The Burt's Bees
Greater Good Foundation
Sandy and Reaves Thompson
Gale and E.L. Unterberg

\$2,500 - 4,999

Betsy and Walter Bennett
Cotton and May Bryan
Tom Daly and Allison Savicz
Jan and Jim Dean
Arthur and Mignon DeBerry
Julie and Matthew Ellis
Jayne Lane Gregory
Deborah L. Hill
Lawrence and Lu Howard
Jonathan and Mary Howes
Marguerite P. Hutchins
Paula LaPoint
Learning Services Corporation
Performance Automall Inc.
Nancy and Ed Preston
Dave Robert/Dead Mule Club
Jennifer and Alfonse Runquist
Damon and Sara Waitt
Fran and Gary Whaley

\$1,000 - 2,499

Anonymous (4)
Linda and Matthew Arnold/
Swearingen Foundation
Jack and Charlene Bennett
Larry Blanton and Candace Haigler
Brad and Cheryl Briner
Robert and Molly Broad
Sandra Brooks-Mathers and
Mike Mathers
Grady W. Burgin
C. J. and Lale Burk
Carolina Meadows
Chapel Hill Garden Club
Claire and Hudnall Christopher
June and Michael Clendenin
Gretchen Cozart
Nancy and Robert DeLong
Elizabeth Dutton
John and Marilyn Dutton
Muriel Y. Easterling
Glen Elder and Sandy Turbeville
John and Pat Evans
Phyllis J. Evans
Steven G. Feingold
Fine Feathers
Carol L. Folt and David R. Peart
Robert B. Fudge
Garden Club of North Carolina, Inc

Garden Gate Landscapes
David and Lallie Godschalk
Greenwood Neighborhood
Association
Sandra Henson
Sumeetha and Tanner Hock
Carol C. Hogue and Gordon DeFries
Julie E. Irwin
Charlotte Jones-Roe and Chuck Roe
Raphe Kantor
Robert and Mary Beth Keiter
Thomas Krakauer
Randy and Cathy Lambe
Nan and Edgar Lawton
George and Judy Lockhart
Cynthia Madden
Jinny and John Marino
Mary and Elliott Wood Foundation
Mercedes Benz of
Winston-Salem and Greensboro
Elston and Mike Miles
Nell and C.L. Morton
Ed Neal and Iola Peed-Neal
Scottie and David Neill
Charles and Nancy Norwood
Charlotte L. Offerdahl
Paperhand Puppet Intervention
Peter and Ona Pickens
Missy and Sam Rankin
Kent and Nancy Raymond
Tamara and Joe Rice
Linda and Al Rimer
Mark and Jane May Ritchie
David L. Robert
Wyndham G. Robertson
Bill Ross and Susan Gravely
Barbara Roth
Jim and Arlene Schmidt
Tom and Margaret Scott
Patricia and Robert Spearman
Janice D. Stratton
The Burch-Safford Foundation, Inc.
Sally Couch Vilas and Harry Gooder
Stephen and Charlotte Wainwright
Barbara and Bob Wendell
Carolyn and Peter White
John and Ashley Wilson
Mark and Stacey Yusko

\$500 - 999

Anonymous
Gordon M. Allen
Gerald A. Barrett
Catherine Bollinger and
Tom Scheitlin
Ernest R. Braasch
Harriett T. Brewer
Eleanor and Robert Broadus
Eunice M. Brock and Sam Magill
Clyde and Lois Browning

Melissa M. Cain
Challah for Hunger
Chapel Hill Bird Club
Myron S. Cohen
William and Julie Coleman
Janet and James Corcoran
Jeff Dangel and Sarah Grant
C. W. and Elizabeth Davis
W. Kent Davis
Carol and Francis DeYoung
Maryann Feldman
Greg Fitch and John Sweet
Galloway Ridge at Fearrington
Gimghoul Area
Homeowners Association
Leslie Guier
Thomas W. Hardy
Gail Henderson
Barbara B. Hiestand
Susan Joseph
John and Betty King
Lynn K. Knauff
Barbara and Dale Koch
Anne H. Lindsey
Gayle P. Lloyd
Elizabeth Locke
Hanson and Betsy Malpass
Paul Mampilly
Carol E. Manzon
Marathon Petroleum Co LP
David L. Martin
John and Alice May
Sandy and Bet McClamroch
Sandra and Ned McClurg
Laurie E. McNeil and Patrick Wallace
Thomas and Sandra Meyer
Cyrus L. Miller
H. Clay Miller III
John and Kathryn Miller
David and Polly Moreau
Sue Morgan
Gretchen and Michael Morrissey
Morrissey Design LLC
Robert and Beverly Murdock
J. V. Nadler
Paula D. Noell
Linda W. Norris
North Carolina Native Plant Society
T. L. and Carmen Hooker Odom
Oliver H. Orr
Palmer Page
Earl N. and Kimberly Phillips
Mia Pizzagalli
Mary L. Poe
Carrie and Allan Porterfield
Harriet and Edwin Poston
Dana and Erna Quade
Miriam Rabkin
Joseph and Xiaomei Reckford
Kenneth and Mary Redfoot

Jeannine and Mitchell Reese
 Katharine L. Reid
 Jim and Lynda Reimann
 Mary Reimann
 Dennis A. Revicki
 Anna L. Reynolds
 Sylvianne Roberge
 Tom and Susan Ross
 Frances E. Sample
 Kenneth N. Shelton
 Gwen Silver
 Mark and Donna Simon
 Stephanie Simon
 Sarah and Claude Snow
 Phyllis and Mel Snyder
 John R. Staelin
 Diana W. Steele
 Barbara L. Stiles
 Preston Stockton
 David and Terri Swanson
 Swanson & Associates, P.A.
 The FA Bartlett Tree Expert Co.
 Douglas and Roberta Tilden
 Robert and Melissa Tolbert
 Tony Hall & Associates
 Carol Tresolini and Tom Fiori
 UNC Center for Excellence in
 Community Mental Health
 James W. Vernon
 Bernice S. Wade
 William and Margaret Walker
 Patrick W. Wallace
 B. P. and Effie Watson
 Joseph and Ramona Westmoreland
 Clarence E. Whitefield
 Cathy and Turner Whitted
 Michael P. Wilder
 J. M. Woods
 Carly Zimmerman

\$250 - 499

Anonymous
 Michael D. Aitken
 Frances M. Allen
 Cristin and Cutler Andrews
 E. Reid Bahnson
 Angelia G. Beasley
 Bernice I. Bergup
 James B. Borden
 Bill Bracey
 Joel S. Bulkeley
 W. W. Burns
 Allen W. Bush
 Cliff and Linda Butler
 Susan and Alvis Bynum
 Robert and Jeanne Chamberlin
 Kathryn and Reece Chambers
 Colony Woods Garden Club
 Ralph Costa
 Linda and Lawrence Curcio
 Van W. Daniel
 Linda C. Davis
 Rob Davis
 Lisa Day
 Martha J. Diefendorf
 John and Priscilla Dodge
 Peter and Susan Dorsey
 Tom and Barbara Driscoll
 Susan T. Ennett
 J. K. Fawcett
 Jean S. and James Coker Fort
 John R. Fowle
 Frank Harmon Architect
 James and Dianne Frazier
 Patricia Friedman and Blair Levin
 Susan and Stephen Frye

Alice C. Garfield
 Peter F. Gelber
 David and Joan Guilkey
 Joe and Betsy S. Hackney
 Jacquelyn D. Hall
 Judith H. Hallman
 Karen K. Henry
 Robert S. Hogan
 Bitty and Bill Holton
 Virginia S. Houk
 Betty B. James
 Richard K. Johnson
 Justin Lord Coleman Foundation
 Stephen Keith and Lisa Glover
 Lewis and Susan Kellogg
 James and Sharon Kirkman
 Gary and Carolyn Koch
 Elin C. Kondrad
 Katherine and Vincent Kopp
 Robert R. Korstad
 Tina Labunski
 Eleanor Lamb
 Susan Lamb
 W. F. and Jane Lamm
 John and Ione Coker Lee
 Jeffrey and Sally Leinicke
 Kathleen Leutze
 Mack and Susan Little
 Joanne and John Lott
 D. Grier and Louise Martin
 Thomas and Lorraine Masters
 Karen M. and E.G. McDougal
 Nancy and Moran McLendon
 Jim and Ruth McVea
 Elizabeth L. Moore
 Gregory A. Mu
 Native Sun Landscape Design LLC
 Mark and Leslie Nelson
 Neuro Community Care, LLC
 William and Katherine Nolan
 North Carolina Unit of HSA Inc
 Abraham M. Nussbaum
 Optimist Foundation of Chapel Hill
 Ariana Pancaldo
 Robert K. Peet
 Wayne E. Pein
 Brian and Mary Beth Phillips
 Chris and Bill Piscitello
 Rich and Marilyn Preyer
 John and Betsy Pringle
 Karen L. Prus
 Heather N. Ramsey
 Elisabeth A. Reid
 Lynn Richardson
 Gary I. Richman and Gail Wood
 David L. Roach
 Tommy T. Roach
 Nancy Howes Robinson
 Sallie S. Robinson
 Barbara N. Rodriguez
 Joseph and Barbara Rodriguez
 Frances P. Rollins
 Gloria and James Rolls
 William and Maryann Roper
 Coleman and Carol Ross
 Betsy B. Rudolph
 Michael K. Salemi
 Erica J. Sanchez
 Rene J. Sanchez
 James R. Schreiber
 Robert and Alethea Segal
 Stephen Shafroth
 Charles and Linda Smith
 David and Judy H. Smith
 Nancy S. Spencer
 Alan and Maxine Stern

Betsy B. Strandberg
 Nancy Stronach
 Charles and Patricia Thompson
 Don and Sue Tiedeman
 Jerry and Sondra Van Sant
 Joan Walker and Ralph Costa
 Kirsten E. Walter
 James Ward and Lynne Wentworth
 Nick Ward/
 Native Sun Landscape Design
 Deborah and M.H. West
 Harriett and Fielding Whipple
 Charlie and Lydia Williams
 Pauline H. Williams
 D. J. Wilson
 Richard and Anita Wolfenden
 Joe and Dana Woody
 JoAnn Yates
 David and Heather Yeowell
 Valerie B. Zamora
 Nancy and Charlie Zimmerli

\$100 - 249

Anonymous (8)
 Angelo Abbate
 Brigitte B. Abrams
 Todd and Blisse Adams
 David and Judith Adamson
 Frank Adler
 Kaye D. Aikins
 Anne Albright
 Jim and Rebecca Alderman
 Susan and Jeremy Aldworth
 Dorothy Allard and Bill Martin
 Alpha Phi Alpha Fraternity
 George N. Altshuller and
 Miao-Fang Lin
 Dennis and Marianne Alwon
 Anthony and P.M. Amitrano
 Christopher I. Amos
 Melinda and Douglas Anderson
 Richard G. Andrew
 Martha S. Arnold
 Tami and Tim Atkins
 Tony Avent
 Katherine B. Baer
 Ingrid and Guy Baird
 Sally and Rex Baird
 Christopher and Suzanne Baker
 Keith R. Baldwin
 Edward C. Balinsky
 Virginia Q. Banks
 Gary and Barbara Barnes
 Thomas and Katherine Barrett
 Charlotte Timberlake Battle
 Barbara T. and Edward S. Beason
 Frederick O. Behrends
 Christine and Gerald Bell
 Larry and Sheila Benninger
 Donna A. Bergholz
 Stephen and Shulamit Bernard
 Robert and Christine Berndt
 John and Virginia Bethea
 Rachel and Alec Bethune
 Thad and Pat Beyle
 Frederick Bisbee
 Josephine Bisbee and
 Martin Schweitzer
 Donald A. Black
 Stanley and Roberta Black
 Susan Blackford
 Bland Landscaping Company, Inc.
 Patricia Blanton and
 Robert McConaughy
 M. R. Blum
 Jack and Jennifer Boger
 Alexandra A. Bokinsky
 Deborah Bolas
 Calhoun Bond
 Gary and Carol Boos
 John J. Boren
 Wayne Bosman
 Victoria and Scott Bouldin
 Michelle S. Bouvette
 Mary B. Bowers
 Dilys M. Bowman
 John and Elizabeth Bozeman
 Betty B. Bradley
 Alethea Bragg
 William and Anne Brashear
 Sherry Brennan and Capel States
 Jim and Mary Brewer
 Paul and Evelin Brinich
 Kathryn and Edward Britton
 Brenda and Keith Brodie
 David R. Brooks
 Patricia and Edwin Brooks
 Kenneth and Marjorie Broun
 Kendal Brown
 Nils and Irena Brubaker
 Steven D. Brunson
 Charlie and Lou Bryan
 Jim and Betsy Bryan
 Diane E. Buchanan
 Kathleen and John Bucher
 Donald R. Burke
 Sophie and Graham Burkheimer
 Laurinda Q. Burleson
 William V. Burlingame
 Phyllis H. Burns
 Maurice and Joan Bursey
 John and Asa Butts
 Leigh F. Callahan
 Chip Callaway
 Kenneth M. Cameron
 Molly Cameron
 Elizabeth Campbell and
 James Godwin
 Robert L. Campbell
 Margaret and Edmund Campion
 Carol Candler
 Robert S. Cantwell
 Mary Clara Capel
 Tim Carey and Kathleen Dalton
 Philip and Linda Carl
 Barbara D. Carman
 Carolina Brewery, Inc.
 Andrea L. Carpenter
 Elizabeth Carroll
 Deborah and George Carter
 Victoria and Mark Castor
 Christine A. Cato
 Center for Creative Balance
 Center Studio Architecture, PLLC
 John and Mary Chandler
 Katharine M. Chapman
 Jeffrey S. Chase
 Nancy and Neal Cheek
 Tom and Nancy Chewning
 Laura Chomiuk
 Lynch and Melanie Fort Christian
 Brenda and Ross Clark
 Margaret and Tony Clark
 Patricia E. Clark and John Bryson
 Louise M. Clifford
 Kathryn M. Cloughly
 Charles and Diana Coble
 Patrick Coin
 Jill Coleman
 Amelia and Michael Collins
 Sharon S. Coop
 Linda Y. Cooper

Brian Copenhaver
 Alexander and Marie Coucoulas
 Phyllis S. Cowell
 Hugh and Regina Craft
 Quinn W. Craughwell
 Cyndy Cromwell
 Jonathon and Rachel Cummings
 Rufus M. Dalton
 Lane and Cheryl Davis
 Patricia L. Davis
 R. P. Stephen Davis Sr.
 Thomas F. Davis Jr.
 Linda J. Dawson
 John and Shelley Day
 Sharon L. Day
 Donna Deal
 Patsy and Eric Decker
 Andrew S. Deemer
 Amy Denham and Jonathan Simmons
 Robert and Janet Des Jardins
 Barbara and Douglass Dewey
 Amy Diamond
 Virginia and Ray Dickie
 Andrew W. Dobelstein
 Paul Donis
 Kathleen Donohue
 Jack and Nickie Donovan
 Mary A. Dorton
 Gregory and Lisa Doyle
 Helen Drivas
 Jackson E. Dube
 Jim and Peggy Ann Duke
 Noel and Shelby Dunivant
 Jane C. Dunlap
 Beverly and Samuel Dyer
 Tom Earnhardt and Dana Jennings
 Jo Anne and H.S. Earp
 Bob Eaves and Beverly Eaves Perdue
 Chris and Pam Edwards
 Susannah and C.H. Eford
 Joseph G. Eisen
 Wendy Elliott
 Kate and Peter Enchelmayer
 Allison L. Essen
 Susan and Allan Eure
 Vann and Laura Evans
 Sarah and Richard Evans
 John and Linda Falconer
 Shauna and Thomas Farmer
 J. D. Fassett
 Jim and Mary Fickle
 Martin and Karin Fitzpatrick
 Mary F. Flanagan
 Lawrence M. Fleishman
 John and Pam Floyd
 Jerry and Linda Folda
 Nina and Milton Forsyth
 Gene G. Foster
 James and Amelia Fountain
 Virginia and Tom Foxx
 Bree Franklin
 Kim and Stephen Fraser
 Diane Frazier
 Frank and Virginia French
 Patricia A. French
 Floyd A. Fried
 Ernestine Friedl
 Sharon Funderburk
 Garden Club Council of Orange County
 Garden Club Council of
 Winston-Salem & Forsyth County
 Joanne K. Gardner
 Julie and Pete Gaskell
 Shirley and Ladnor Geissinger
 Patricia G. Gensel
 Martha L. Gentry
 Kip and Susan Gerard

Leonard and Ann Gettes
 Donna and Gary Gilleskie
 Peter and Tona Gilmer
 Geoffrey E. Gledhill
 Danny and Sally Glover
 Jean Goeppinger
 Thomas Golding
 Alex and Ann Gordon
 Roger and Nancy Gorham
 Yolande and Robert Gottfried
 Chris and Brooks Graebner
 Russell and Mary Graves
 Thomas W. Graves
 George-Ann Greth
 Janine and Frank Griffin
 Helle K. Griffiss
 John M. Griffiss
 Edward E. Gross
 Henry and Naoko Grossberg
 Perry Haaland and Pam Timmons
 Daniel Hadley
 John and Joann Haggerty
 Dorothy A. Hammett
 Sara K. Hamrick
 Jan Hansen
 Nancy Hardin
 Merel H. Harmel
 Elizabeth and Albert Harris
 Karen Harrison
 G. J. Harry
 Donna S. Hart
 Tom and Sarah Harville
 Sarah and Paul Haskell
 Lark Hayes
 Carol J. Hazard and Winston Liao
 Kindra M. Heilpern
 Sally A. Heiney and Kirk Ross
 Robert Hellwig
 Aron T. Helser
 Matthew P. Herman
 Susan Hester and Howard M. DuBose
 Virginia E. Hester
 Ford G. Hibbits
 Richard L. Hibbits
 Shayna A. Hill
 Loren Hintz and Margaret Vimmerstedt
 Anna Ho
 Larry Hodges
 Merle S. Hofmann
 Harriet T. Holderness
 Jane D. Hollingsworth
 Edward S. Holmes
 Jeffrey and Lisa Holmsen
 Max and Haru Hommersand
 Hope Horton
 Sylvia and Paul Hubbard
 Mary Elizabeth S. Huey
 Eugene and Joyce Huguélet
 MaryJane F. Hunt
 Hunt Electric Supply Company
 Tom Hunter and Carolyn Felton
 Joan C. Huntley
 David and Sarah Huppert
 Kani Hurow
 Shepard and Margretta Hurwitz
 Lynn and Carolyn Ikenberry
 Irregardless Cafe
 Bethy and Robert Jackle
 Marion E. Jackson and Jeffrey S. Clark
 Ann L. Jamerson
 Betty B. Jean
 Marti and David Jenkins
 Alan Johnson and Laurie Mettam
 Benton Johnson
 Susan C. Johnson
 Thomas H. Jones
 Nell Joslin

Mary and William Joyner
 Susan Joyner and Brian Peters
 Margaret and Kuno Juergenson
 William and Mary Kaiser
 Virginia and Kenneth Karb
 David and Susan Keesee
 Elizabeth and Daniel Kelliher
 Ann Kendall
 Diane Kent
 Charles Kidder
 Jeanette C. Kimmel
 Phebe and Paul Kirkman
 Christopher and Cheryl Klein
 Ronald C. Knight
 Linda Koffenberger
 Bradley E. Kosiba
 Lucile M. Kossodo
 Timothy A. Kuhn
 Lady Slipper Garden Club
 Diana and Robert Lafferty
 Linda Lafferty
 G. L. and Lynn Lail
 Lake Forest Garden Club of Chapel Hill
 Lake Trace Garden Club
 Ellen Lambeth
 Joan Langenderfer
 Christina L. Larson
 Joel I. Laskey
 Jeanette C. Lea
 Philip and Nancy Leinbach
 James H. Leshner
 Francis Lethem
 Bill and Jean Leuchtenburg
 Christine M. Levesque
 Elizabeth L. Ley
 Page and Allan Life
 Jim and Christy Lilley
 Robert and Margaret Liloia
 Paul and Caroline Lindsay
 John and Kathy Lindsey
 Elsa C. Liner
 Dell H. Little
 Mary Lou and Bert Liverance
 Ken and Cathy Lohmann
 Anne Loustau
 Eleanor and David Lowry
 Andrew and Jess L'Roe
 James E. Luebchow
 Fred and Lynne Mabry
 Alan MacIntyre
 Lynn and Melanie MacIntyre
 Ann H. Mack
 Robert Mackintosh
 Leigh W. MacQueen
 Gus and Geary Mandrapilas
 Lisa Marcusson
 Stephen W. Marshall
 Barclay and Nancy Martin
 Diane S. Martin
 Mary M. Martorella
 William and Laura Mason
 Ann G. Matrone
 Joel D. Mattox
 Kathy Mauney
 Brian Mawby
 Catherine J. Maxwell and Ben Fewel
 Celeste Mayer
 Andrew T. Maynard
 Marcia and Michael Mayo
 Brenda McAdams Motsinger
 Karen and Robert McCall
 Julie E. McCashin
 Carol Ann McCormick and Mark Peifer
 R. F. and Mary McCoy
 Eugene and Matthew McDonald
 Geraldine A. McDowell
 Margaret and Ross McKinney

Barbara McLean
 John A. McLendon
 William and Anne McLendon
 Robert and Daphne McLeod
 Dave and Elizabeth Meador
 Melissa Meager
 Mellow Marsh Farm, Inc.
 Metalcraft Fabricating Company, Inc.
 Estelle Metzger
 Claire and John Miller
 Richard Miller
 Thomas M. Miller
 Tonya and Michael Miller
 Donald and Jane Misch
 Will Mitchell
 Karen Mohlke
 Gus and Joan Montana
 Don and Barbara Moore
 Ken Moore and Kathy Buck
 William C. Moore
 Susan M. and George F. Moose
 Kathryn and Rua Mordecai
 Sherry Morgan
 Kent and Miriam Mullikin
 Sally M. Murray
 Annie Nashold
 Linda and Paul Naylor
 Anne W. Nielsen
 MaryAnn and Edwin Nirdlinger
 Jesse and Mary Ann Noland
 Gail W. Norwood
 Anthony and Wendy Oakes
 James and Melinda Ogburn
 Julia and Brian O'Grady
 Elise Olsen
 Thomas D. O'Neal
 Sherri R. Ontjes
 Michael and Angela O'Rand
 David A. Otto
 Michael and Julie Papay
 Lynette and John Parker
 Linda Passman
 Bill and Rosemary Pate
 Bettina Patterson
 Josephine W. Patton
 Brian and Heather Payne
 David and Cary R. Paynter
 Sam and Linda Pearsall
 Lee and Barbara Pedersen
 Stanley and Carolyn Peele
 John W. Pelosi
 Ann M. Penrose
 Karen Perizzolo
 Margaret and Kenneth Perkins
 Rebecca L. Perritt
 Merrill Petrow
 John and Judith Philpot
 Plant Delights Nursery, Inc.
 Ed and Nancy Pleasants
 Daniel and Irmgard Plyler
 Edward and Robeson Plyler
 David and Louise Poer
 Louise and Harold Pollard
 Janice D. Pope and Janet Clark
 Frances and Stephen Porter
 Dakota Powell and Matthew Knight
 Jeff and Cheryl Prather
 Ted and Margaret Pratt
 John Presley and Charles Childs
 Jane B. Preyer
 Forrest and Stewart Priddy
 Elizabeth Pullman
 David and Clare Pulman
 Philip and Natalie Purcell
 Anne Pusey
 Milo Pyne and Alexa McKerrrow
 Raleigh Garden Club

Thomas L. Ramsey
 Ramsey Land Surveying
 Michael Ray
 Peter W. Redfield
 Sylvia N. Redwine
 Donna Ann and Robert Reece
 Rachel Rempel
 Christie and James Rice
 Thomas and Diana Ricketts
 Lucian V. Rinando
 Edgar and Deborah Roach
 Todd and Charlotte Battle Robbins
 Jack and Constance Robinson
 Hendrik J. Rodenburg
 Sally Rohrdanz
 Margaret A. Rook
 Kirk M. Ross
 Benjamin Rotenburg
 William and Elizabeth Rouse
 Robert and Louise Row
 Barbara Rowland
 Joseph H. Roycroft
 Abbie J. Royster
 Carolyn Royster
 J. Preston Ruddell and
 Janet Spaulding-Ruddell
 Bruce and Cynthia Runberg
 Eleanor S. Rutledge
 Wendy E. Sarratt
 Evelyn R. Savitzky
 James H. Scatliff
 Nidia T. Scharlock
 Robin M. Schectman
 Lars G. Schoultz
 George and Zsuzsi Schroeder
 Iris E. Schwintzer
 Cynthia K. Scott
 Robin G. Scott
 Richard and Emily Scoville
 Ross and Karen Scroggs
 Alan D. Seiferheld
 Marion and Christopher Sekerak
 James Senter
 Robert E. Seymour
 Robert L. Shaw
 James M. Sheehan
 Neal Shepherd
 Ann Sherman
 Rusty and Janet Sherrill
 Susan Shevach
 Headley Shouse
 Jade Shutes
 Caroline G. Sikorsky
 John and Kim Simmons
 Susan and Steven Skolsky
 Nonna Skumanich
 Marion and Harry Sledge
 Adaline C. Smith and Gene Liao
 Lee Smith and Hal Crowther
 Peter B. Smith
 Holmes B. Smoot
 Marianne and Robert Smythe
 Margaret and John Sockwell
 Nancy and S.C. Sommer
 Nancy and Jerry Sparrow
 Timothy Spira
 Jim and Linda Srebro
 Mary P. Stephenson
 Daniel B. Stern and Rosemary M. Byrnes
 Jean C. Stewart

Fred and Amanda Stipe
 Josephine W. Stipe
 Olympia Stone and Sims Preston
 Sue S. Stoudemire
 Jay Strader
 Louise C. Strauss
 Robert and Sabrina Sulgrove
 Bruce Sullenger
 Banks and Louise Wooten Talley
 Elizabeth L. Tate
 Priscilla P. Taylor
 Dwight and Judith Tedford
 Joseph and Claudia Templeton
 The Country Vintner
 The Fresh Market
 Christy E. Thomas
 Hugh A. Tilson
 Mary B. Todd
 Silvia Tomaskova
 Charlie and Jessica Tomberlin
 Town & Country Garden Club - Durham
 Ginger R. Travis
 Miriam and Norman Tripp
 Anna and Craig Troutman
 George A. Truskey
 Camilla Tulloch and Don Liner
 John M. Turner
 Caroline and George Unick
 Antonia M. Valakas
 Laura C. Van Sant
 Diane B. Vannais
 Grant and Vivian Varner
 Paul M. Vernon
 Paul Voss
 Hendrik J. Vreman
 Anne R. Wade
 Lisa K. Wagner
 James and Paula Wald
 Charles A. Waldren
 Susan Burrell Wall
 Susan E. Wallace
 Anna E. Waller
 Katherine M. Walters
 Cynthia Walukewicz
 Mac and Carol Wansley
 Steven A. Warner
 Rebecca D. Warren
 Alfred and Elizabeth J. Waters
 Celeste and John Watts
 Alan S. Weakley
 Jean Weakley
 Paulette Webb
 Adam and Lysandra Gibbs Weber
 Lydia N. Wegman
 Judith and Warren Wegner
 JoAnn Weissman-Fried
 Elizabeth and James Wells
 Sarah M. Welna
 Nancy and Monty White
 Diane E. Wickland
 Sara and G. J. Wilds
 Haven and Minna Wiley
 Susan J. Williams
 Thomas C. Wills
 Janet H. Wilson
 Kevin Wilson
 Noah and Susan Wilson
 Wine Without Borders
 John B. Winfield
 Joyce and Steven Winterbottom
 Sandy and Tin-Lup Wong
 Josef and Vanessa Woodman
 Alexander and Drena Worth
 Robert E. Wray
 John and Joan Wrede
 Walter and Wendy Wright
 Anna A. Wu
 Marion Youngblood
 Alice Zawadzki

We appreciate all memberships and additional gifts to the Garden!

Tribute Gifts received in the period from August 28, 2015 to March 22, 2016.

IN HONOR OF

Maura E. Baldiga
 Alexandra Kowalski, for Friends of UNC Herbarium

Mary Bates
 Hannah E. Gavin, for Coker Arboretum Endowment

Chelsea Block and Paul Nguyen
 Martha Johnson, for Forest Theatre Fund

Jessica Bodford
 Hannah E. Gavin, for Coker Arboretum Endowment

Cathy Bollinger
 Jerree Scheitlin

Cathy Bollinger and Tom Scheitlin
 David and Susan Bollinger, for Horticultural Therapy Program

Amanda Briggs
 Michael and Maria Topal, for Carolina Campus Community Garden

Eunice M. Brock
 Naomi Slifkin and Glenn Withrow, for Battle Park Endowment

Andrew Bryan
 Michael and Wendy Maxwell

W. Woodrow Burns Jr.
 Lucinda Holderness

Wayne E. Cash
 Linda G. Cash

Cristin Colford
 Cam and Carol Enarson, for Carolina Campus Community Garden

Gretchen Cozart
 Sallie and Thomas Cozart

Mike Dunn
 John Gerwin and Kathy Lagana, for Horticulture Therapy Program

Tom Earnhardt
 Anson and Debra Ives

Muriel Y. Easterling
 Charlotte Jones-Roe and Chuck Roe, for NCBG Director's Fund
 Paul and Barbara Nettesheim

Nancy L. Easterling
 Susan Slatkoff and Ronald Strauss

Ken and Laura Frazier
 Steven and Susan Skolsky, for Battle Park Endowment

Michael and Mary Gavin
 Hannah E. Gavin, for Horticultural Therapy Program

Sally Heiney, Chris Liloia, Matt Gocke and Mixon
 Ginger Travis, for Horticulture Fund

Dale Herman
 Margaretha Herman

Mary Cook Howes
 Ken Moore and Kathy Buck
 Nancy H. Robinson

Charlotte Jones-Roe
 Andrew and Jess L'Roe

Fred W. Kiger
 Myra and Charles Cain
 Harriet and D.G. Martin

Fred and Mary Kiger
 Fred W. Kiger, for Battle Park Endowment

Lynn Koss Knauff
 Susan K. Kreiner

Harriet and D.G. Martin
 Stephen and Frances Porter

Alice and John May
 Kathryn E. Bell, for Battle Park Endowment

Nell Hatley Morton
 Jim and Libba Wells

Edward Murray IV
 Allison Essen, for Living Plant Fund

My Cat Angel
 Susan Shevach

North Carolina Botanical Garden Tour Guides
 Grant and Leslie Parkins

Grant Parkins
 Nell and C.L. Morton

Elliot Oliver Phillips
 Cheryl M. Eagle, for Horticultural Therapy Program

Frances Wallace Rankin
 Nina Wallace

Katharine L. Reid
 Carolyn B. Goldfinch

Tom and Margaret Scott
 Abby Royster

Blaine and Susan Short
 Anne Loustau

Ginny Smith
 Virginia Smith Ellison

Barbara L. Stiles and Bernice S. Wade
 Roy and Faye Martin
 Anne R. Wade, for Battle Park Endowment

Nancy Thomas
 Cam and Carol Enarson, for Carolina Campus Community Garden

Sally Couch Vilas
 Larry Fleishman, for NCBG Director's Fund

Jason and Tracy Walser
 Dwight and Deborah Messinger

Roy Williams
 R. Michael Childs

John and Ashley Wilson
 Daniel E. James
 Eleanor Lamb

IN MEMORY OF

Charlotte Anne Ruffead Abbate
 Angelo Abbate

Ross Andrews
 Wendy E. Sarratt, for Mason Farm Endowment

Ray E. Ashton, Jr.
 Elizabeth Lord

Catherine Ayscue
 William Watts and Carol Basnight, for Coker Arboretum Endowment

Mr. and Mrs. Kemp D. Battle
 Henry Grossberg

Thomas Braswell Battle
 Todd and Charlotte Robbins

C. Ritchie Bell
 Laurence J. Dorr
 Billy Kirkland
 David and Elizabeth Wells, for UNC Herbarium Endowment

LEAVE A LEGACY

If you would like to speak with someone about making a special gift to the Garden, call Charlotte Jones-Roe at 919-962-9458 or UNC's gift planning experts at 800-994-8803.

Dan Bishop

Martha and William Lamb

Barbara and William Bloom

Paolo and Deborah Fulghieri

Melinda Kellner Brock

Eunice M. Brock, for Melinda
Kellner Brock Terrace

Sandy Burnett

Jamie Burnett and Harvey Himberg

Mary Jane Mayhew Burns

W. Woodrow Burns, Jr. and
Catharine Gilliam Burns, for NCBG
Director's Fund

Gordon Butler

Carolyn J. Tyson, for Botanical
Garden Conservation Fund

Cordelia Penn Cannon

Cordelia and W. Chandler
Thompson

Glenna Marie Lake Chapin

Donna Chapin Bergholz, for Mason
Farm Endowment

Bill "Big"Conway

Lucinda Holderness

B. J. Cooper

Jay and Denise Morton

Hazel Fischer Craige

Viney and Poonam Aneja
William Bystrynski and
Celia Marie Hartnett
Lorna Grenadier
Jeffrey and Alexandra Jones
Thomas S. Kenan
Moyra and Brian Kileff
Christopher and Jennifer Olson
Claudia C. Prose
Wyndham G. Robertson
Reid and Laura Russell
Jean C. Stewart,
for Battle Park Fund
Triangle Securities, LLC
Nancy L. Vernon
Linda Winski

Doreen Daniels

Victoria L. Bautch, for NCBG
Director's Fund

Jean Dreesen

Friends of Elizabeth
Dreesen

Janice Jurczak Evans

Kurt M. Evans, for Coker Arboretum
Endowment

Rebecca Frazier

Dianne and James Frazier, for
Educational Outreach

John Robert Fickle

Robert L. Campbell

Alvera H. Frauenheim

Betty P. Hafton
Nancy P. Unger

Robert K. Gardner

Vann and Laura Evans

Amy Gitelman

Honré F. Gitelman

Hillel J. Gitelman

Natalie L. Schwartz, for
Horticulture Fund

Graham D. Green

Carol Bossen, for Horticulture Fund

Mitchell Dale Hardison

Dianne and Andrew Nicholas, for
Horticulture Therapy Program

Albert D. Hawkins

Jennifer and Thomas Slusser

Andrew C. Henley

Maeda J. Galinsky
Thomas and Sandra Henley
Katie Smillie
Larry and Sandy Martin
Connie McAdams
Day H. McLaughlin
Barbara Nettles-Carlson and
Curtis McLaughlin
Robert Phillips and
Anne B. Winfield
David and Marsha Warren

Lois T. Herring

Robert N. Herring

Michael Hooker

Carmen Hooker Odom

Frederick Johnston Houk, Jr.

Virginia S. Houk, for Fred and
Virginia Houk Sustainability
Internship

Jonathan Howes

Marian and Bill Broome
James and Roberta Copeland
Shelton and Jo Anne Earp
Maeda J. Galinsky
Kitty Harrison
Lucinda Holderness
Ken Moore and Kathy Buck
Katherine and Tobin Savage, for
Battle Park Endowment
Barbara Schutz

Tom Jones

Kirby Spicer

William Joslin

Nell Joslin

Norman Kane

Tamsie and Staples Hughes

Rebecca "Becky" Norman Leager

Mary Joslin
Nell Joslin
Edward R. Leager, for Mason Farm
Endowment

Pam Ledford

Donna S. Reilly

Sam McGee

Sandy and Reaves Thompson

Scott "Scotty" McLean Jr.

Mary Clara Capel
Eleanor and Jim Ferguson, for Battle
Park Endowment
Edward and Yvonne Funk
Katherine B. Nolan, for Battle Park
Endowment
David Robert, for Battle Park
Endowment

Mike the Dog

Stella E. Waugh

Carol Lasher Miller

Cyrus L. Miller
Clay Miller, for Living Plant Fund

Grover E. Murray

Sally M. Murray, for Carolina
Campus Community Garden

Arline Olsen

Elise Olsen, for the NCBG Director's
Fund

Priscilla Otto

David A. Otto

Kai Mei Parks

Phillip W. Liles

David Passman

Linda Passman

John Perdue

Patrice and Matthew McDermott

Nancy Margaret Pruden

Edward and Yvonne Funk

Albert and Laurie Radford

David and Jean Radford

Seth Robert Reice

Sheila R. Evans

Bill Rhymes

Jim and Mary Jo Fickle

Freida Stiles Richardson

Lynn Richardson, for Mason Farm
Endowment

Charles Rohloff

Beverly and Samuel Dyer, for
Mason Farm Endowment

Tyrrell C. Sharp

Thomas A. Sharp

Clarice Shiner

Lisa A. Herman

Anne McBride Smith

Timothy and Mary Smith, for Coker
Arboretum Endowment

J. Mitchell Sorrow

Alice and Dewey Dorsett

Nancy "Teeney" Stronach

Mary Davis and Thomas Betts
Wortley and Vance Forbes
Josephine and Frank Harrison
Robert and Alison Heath
Louise Clark Strauss

Jim Todd

Mary B. Todd

Byron & Kate Taylor

Hal S. Porter

Page Vernon

Jim Vernon, for
Children's Wonder Garden

Jane Carter Walker

Deborah Jordan

Finley T. White

Gilbert and Judy White

David Whittington

Kathryn and Peter Enchelmayer, for
Battle Park Endowment
James and Nancy Jennings, for
Battle Park Endowment

Nancy Gray Winslow

Nina Gray Wallace

Debra Yancey

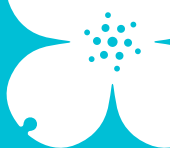
Braxton and Barbara Foushee, for
Living Plant Fund
Dough Hastings and
Virginia Joslin-Hastings
Orange Water & Sewer Authority

Alice Zawadzki

Charlotte Jones-Roe and Chuck Roe
Margaret S. Perkins

John Wallace Zimmerman

Lillian Israel Zimmerman
Gordon Israel



MARK YOUR CALENDAR

April 28

**Step into Spring Prelude Party
for the Chapel Hill Garden Tour**

April 30 & May 1

Chapel Hill Garden Tour

May 15

**Coker Arboretum and Battle Park
fundraiser at The Dead Mule**

May 21

Native Plant Sale & Festival

September 17

**Sculpture in the Garden
Preview Event**

September 23 & 24

Fall Plant Sale

October 15

Family Fun Festival

October 22

50th Anniversary Gala

November 6

**Jenny Elder Fitch Lecture
featuring Thomas Rainer, RLA**

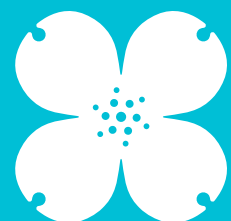
November 18

**Botanical Garden Foundation
Membership Meeting**

December 11

**Botanical Garden Foundation
Holiday Party**

For more information:
ncbg.unc.edu/2016-events



North Carolina Botanical Garden

The University of North Carolina
Campus Box 3375
Chapel Hill, NC 27599-3375
Phone: 919-962-0522
ncbg.unc.edu · ncbg@unc.edu

NONPROFIT
U.S. POSTAGE
PAID
UNC – CHAPEL HILL

ADDRESS SERVICE REQUESTED

