Second Gala a Huge Success!

Thank you! You helped us raise over $57,000 for Garden programs in Horticulture, Conservation, and Education!
See photos and details on pages 2–3.

A Herbarium & “Flora of Virginia” Celebration: Sept 14 & 15

Join us for a celebration of recent accomplishments of the UNC Herbarium!

❖ Saturday, Sept. 14, 10:00 am–1:00 pm
UNC Herbarium Open House at Coker Hall
Meet Herbarium staff, students, and volunteers. Learn about new projects and the many ways the internet and alliances with other institutions have made the collections accessible. Check out the new/old Harvard herbarium cases on the first floor of Coker. Get the scoop on molecular systematics, internships, and forthcoming floras. If you are an alum of the Botany Department at UNC, bring your own favorite herbarium stories to share!

❖ Saturday, Sept. 14, 4:00 pm, Reeves Auditorium
Floras and Herbaria: New Riffs on an Old Theme
How does a major work like The Flora of Virginia (first major flora for the Old Dominion since 1762!) get into print? And what’s on the horizon for future taxonomic manuals? Author and Director of the UNC Herbarium Alan Weakley will answer these questions and share details about the upcoming “Mobile Flora App,” citizen science opportunities, Herbarium collaborations, and more. After the talk, enjoy light refreshments and get Alan to sign your copy of the Flora!

❖ Sunday, Sept. 15, 9:00 am–1:00 pm
Local Field Trip to Picture Creek Diabase Barren
Alan Weakley will be your guide: details on our website.

All events are FREE. Register for each through our website: ncbg.unc.edu/unc-herbarium/ (pre-order copies of The Flora of Virginia through the registration website, too).
Carolina Moonlight Gala 2013 a Huge Success!
—proceeds support Garden programs

The Carolina Moonlight Gala Committee and the Botanical Garden Foundation Board of Directors extend deep appreciation to all who contributed so generously to our second annual Gala, May 18, 2013. Your participation—as sponsors, auction donors, attendees, others who contributed donations, and invaluable volunteers—helped raise net proceeds of over $57,000! This makes for a grand total of almost $100,000 over two years that the BGF has been able to happily contribute in support of North Carolina Botanical Garden programs in horticulture, conservation, and education.

We send special thanks to all Gala sponsors, listed below, and to all auction donors, listed under “Carolina Moonlight Gala” in the Gift List on p. 15.

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2013 Gala Committee, ready to enjoy the party (L to R): Vicky Brawley, Alan Grier (Chair), Anne Lindsey, Lynn Goodpasture, Jan Dean, Ken Moore, Lysandra Weber, Barbara Wendell, Sandra Brooks-Mathers, Debbie Hill, Becky Cobey, Stephen Rich, Kathy Buck. Photo by Grace Camblos.
HOLD THE DATE!
3rd Annual
Carolina Moonlight Gala
Saturday, June 7, 2014

Clockwise from above: Volunteer JoAnn Overton helps guests place bids in the silent auction; Gala Committee Chair Alan Grier and lucky door prize winner Katherine Reid; Auctioneer Gary Phillips orchestrates bidding in the live auction; live auction winners Bill and Jean Anne Leuchtenberg “cut a rug” to the music of The Swingin’ Chads; and volunteers and staff (L to R) Lynn Knauff, Paula LaPoint, Grace Hatcher, Katie Stoudemire, and Claire Lorch greet guests.

Thank you to Grace Camblos of Grace Camblos Media for the fantastic photos.
Observations from a Wet July

You will be reading this as the end of summer approaches. As a survivor of the summer deluges of 2013, let me bring you back to one dark green, large-leaved, lush day in July. It’s a Saturday morning. Children’s voices echo from the Pegg Exhibit Hall, and visitors of all ages are wandering through old and new sections of the Garden. Thanks to the amazing work of the Horticultural staff, led by Jim Ward, Amanda Mixon, Chris Liloia, Sally Heiney, and Bob Peoples, the new gardens have grown tall and dense, and the 40-year-old gardens around the Totten Center present an amazing diversity of textures, leaves, colors, and flowers. I’ve just finished orienting a new visitor: pointing out on a map the carnivorous plants, Paul Green Cabin, longleaf pine, large-leaved magnolia, giant chess set, Herb Garden, and Children’s Wonder Garden. Nearby, at the Coker Arboretum and Battle Park, staff, volunteers, and interns are providing the care that these treasured gardens and natural areas need.

Today, visitors had to duck under covered breezeways and inside the Exhibit Hall for one brief but steady rainstorm. The growth of the plant community around us has been remarkable in the last month: all of that vegetation busily taking carbon out of the atmosphere and releasing oxygen, forming the energy basis of insects, who consume and pollinate and ultimately provide food for birds. These connections seem to be reflected in the imagination and spirit of the Garden—our staff and supporters. This spirit encompasses an understanding of ecology and evolution and a commitment to conservation. And it is grounded in the University of North Carolina’s tradition in science. Part botanical knowledge and part artistic creativity, the Garden represents our relation to our environment and thus is a part of North Carolina’s “ecosphere”—plants, insects, birds, people.

Though this has been a wet summer so far, historical records show that droughts recur at roughly seven-year intervals, so we know the Garden landscape—all landscapes—must roll along with the ups and downs of something as direct and obvious as rainfall. So today I am aware, too, of the beautiful drought-tolerant plants in this garden: for instance, native grasses and orange butterfly milkweed. Variety in plants and biological diversity is key to resilience and future adaptation; for even as wet and dry years come and go, some changes are directional rather than cyclic. Sorting the directions from the cycles is one challenge in understanding climate change in North Carolina. Places like the North Carolina Botanical Garden are key reference points that will support adaptation.

I am tempted to paraphrase Charles Dickens: It is the best of times and the worst of times. We occupied our new building and landscapes at a time of decreasing state support and stresses on personal finances. But on a July Saturday morning, the best far outweighs the worst! That could be because I have no budget meetings to prepare for today, but . . . . It is amazing what has transpired here, given the times. The Education Department has developed a rich array of educational and experiential classes, exhibits, and events. Facility rentals and the Garden Shop are increasingly important sources of income. Education, Conservation, and Herbarium departments all have landed large grants. And the Botanical Garden Foundation Board has sponsored, once again, a successful fundraising gala.

You are reading this Newsletter because you have made a choice to join us and support the Garden. Thank you very much for being part of the continued unfolding of the Garden’s work and spirit.

Peter White
Mark your calendars and join us, September 27 and 28, for the Fall Plant Sale. For many years now the North Carolina Botanical Garden has held a special Fall Plant Sale—often advertised with the moniker, “Fall Is For Planting!”—as a way to showcase the diversity of plants native to the southeastern United States, and to make these plants available to enthusiasts, home gardeners, and naturalists.

The plants we offer at the Fall Plant Sale are grown in-house: propagated and raised in our own greenhouse and nursery with an emphasis on sustainable and organic practices. This year’s sale will highlight several categories of plants, including woody shrubs and trees, herbaceous perennials, and carnivorous plants. A number of species of vines and ferns will also be available for purchase.

Our woody plant collection is overflowing with *Amorpha*, *Asimina*, *Aesculus*, *Carpinus*, *Clethra*, *Ceanothus* (2013 NC Wildflower of the Year), *Diospyros*, *Hydrangea* (*H. arborescens* and *H. quercifolia*), *Hypericum*, *Ilex*, *Itea*, *Lindera*, *Magnolia*, *Osmanthus*, *Quercus*, *Rhododendron*, and several *Viburnums* (*Viburnum dentatum*, *V. nudum*, *V. rafinesquianum*, *V. prunifolium*, *V.assinoides*, and *V. acerifolium*).

Also look for sun-loving herbaceous perennials such as *Asters*, *Solidago*, *Pyrethrum*, *Vernonia*, *Silene*, *Monarda*, *Echinacea*, *Hibiscus*, *Rudbeckia*, *Liatris*, *Coreopsis*, and shade-friendly perennials such as *Actea*, *Eurybia*, *Chrysogonum*, *Phlox*, *Heuchera*, *Tiarella*, *Mitella*, *Hexastylis*, *Asarum*, *Chelone*, and more.

An array of carnivorous plants—Venus flytrap, sundew, pitcher plants (*Sarracenia* spp.)—will be on display and available for purchase. And: Ken Moore, Dot Wilbur-Brooks, and our corps of library volunteers have selected some intriguing items for those interested in gardening/natural history books (see box below).

A big thank you goes out to staff and volunteers, without whom these beautifully grown plants would not be made available and this special and fun two-day event could not take place!

—Matt Gocke, Nursery Manager

### Horticultural, Botanical, Natural History Books & Journals Accompany Fall Plant Sale

Get ready for a once-a-year opportunity to purchase duplicate copies from the Garden’s extensive library resources! Some highlights to whet your appetite:

- **Books by well-known, late garden writers** Elizabeth Lawrence, Graham Stuart Thomas, Christopher Lloyd, Gertrude Jekyll, Vita Sackville-West, Harold Hume, and others—perfect for new gardeners wanting to learn from past grand masters of gardening and garden design.

- **Collections of past years of gardening journals** such as *Sun-up*, *Home Gardening*, and *Horticulture* dating back to the 1940s.

- **Books on environmental, landscape, and natural history topics**, and identification guides to birds, butterflies, insects, reptiles & amphibians.

Members get first-crack at these treasures for the botanical/natural history bibliophile, so remember to join/renew your membership if you haven’t (you will be able to join “at the door”). Members receive a discount, on plants and books. You are in for a veritable feast of books!
Certificate Courses, Fall Semester

Full descriptions of these Certificate Courses on our website (ncbg.unc.edu/classes-workshops/) =No prerequisites—open to all!

Native Plant Studies

Botany 
Olivia Lenahan, Horticultural Scientist
Saturday, Aug 10, 17, 24, 31;  9:15 am –1:15 pm

Applied Conservation Biology
Johnny Randall, NCBG Director of Conservation
Thursdays, Sep 5, 12, 19, 26, Oct 3, 10; 3:00 –5:00 pm

Pollination 
Anne Lindsey, Botanist
Saturdays, Sep 7, 14, 21, Oct 5;  9:00 am–noon

Introduction to Mushrooms (Short Course) 
Rytas Vilgalys, Dept. of Biology Duke University
Saturday, Sep 14, 9:30 am–4:00 pm

Native Edible & Medicinal Trees of the NC Piedmont
Kim Calhoun, Herbalist & Wild Food Enthusiast
Tuesdays, Aug 21, 28, Sep 4, 11;  9:30 am–1:00 pm

Plant Taxonomy
Milo Pyne, Plant Ecologist
Sundays, Oct 6, 13, 27, Nov 3; 1:30–4:30 pm

Lichens (Short Course) 
Eimy Rivas Plata, Lichenologist
Saturday, Oct 12, 9:30 am–4:00 pm

Book Review: Wilderness and the American Mind by Roderick Nash (Short Course) 
Peter White, NCBG Director
Thursday, Oct 17, 7:00–8:30 pm

Dendrology 
Steph Jeffries, Forest Ecologist
Wednesdays, Oct 23, 30, Nov 6, 13;  9:30 am–12:30 pm (inclement weather: Nov 20)

Native Seed Propagation (Short Course) 
Heather Summer, NCBG Seed Program Coordinator & Matt Gocke, NCBG Nursery Manager
Saturday, Oct 19, 9:30 am–12:30 pm

Flowering Plant Families
Olivia Lenahan, Horticultural Scientist
Saturdays, Nov 2, 9, 16, 23; 9:30 am–12:30 pm

Botanical Art & Illustration

Drawing for People Who Think They Can’t Draw (Short Course) 
Emma Skurnick, Professional Artist
Saturday, Aug 10, 1:00–4:30 pm

Beginning Drawing 
Emma Skurnick, Professional Artist
Wednesdays, Aug 21, 28, Sep 4, 11;  9:30 am–1:00 pm

Introduction to Botanical Art & Illustration (Short Course) 
Linda Koffenberger, Professional Artist
Aug 24, 1:00–4:30 pm

Beginning Watercolor
Kathy Schermer-Gramm, Professional Artist
Tuesdays, Sep 3, 10, 17, 24; 1:00–4:30 pm

Intermediate Drawing
Kathy Schermer-Gramm, Professional Artist
Aug 31, Sep 7, 21, 28; 1:00–4:30 pm

How to Safely Use Photographs in a Painting (NEW Short Course) 
Patricia Savage, Professional Artist
Sunday, Sep 8, 1:15–4:45 pm

Advanced Watercolor
Maryann Roper, Professional Artist
Mondays, Sep 9, 16, 23, 30; 1:00–4:30 pm

Fall Leaves in Colored Pencil (Short Course) 
Linda Koffenberger, Professional Artist
Saturday, Oct 5, 1:00–4:30 pm

Field Sketching 
Emma Skurnick, Professional Artist
Monday Oct 7, 14, 21, 28; 1:00–4:30 pm

Intermediate Watercolor Techniques
Emma Skurnick, Professional Artist
Tuesdays, Oct 8, 15, 22, 29; 9:30–1:00 pm

Beginning Colored Pencil
Linda Koffenberger, Professional Artist
Wednesdays, Oct 9, 16, 23, 30; 1:00–4:30 pm

What’s in Your Tube of Paint (NEW Short Course) 
Patricia Savage, Professional Artist
Sunday, Oct 27, 1:15–4:45 pm

Lichen: Science & Art 
Eimy Rivas Plata, Lichenologist & Linda Koffenberger, Professional Artist
Saturday, Nov 2, 9:00 am–4:00 pm & Sunday, Nov 3, 1:15–4:45 pm

Nature Journaling Seasonal Continuum
Jeannine Reese, Professional Artist
Session I: Saturday, Oct 19, 1:15–4:45 pm
Session II: Monday, Nov 4, 1:00–4:30 pm

Pen & Ink
Emma Skurnick, Professional Artist
Tuesdays, Nov 5, 12, 19, 26; 9:30 am–1:00 pm

Intermediate Colored Pencil
Linda Koffenberger, Professional Artist
Saturdays, Nov 9, 16, 23, Dec 7; 1:00–4:30 pm

Registration is Online!
http://ncbg.unc.edu/calendar/
The yellow Register Now button posted with all programs takes you to our secure registration site. Advance registration required for all programs unless otherwise indicated.

Did you Know? you don’t need to be enrolled in a certificate program to take courses that are marked as  (no prerequisites). Learn more about our two certificate programs on our website: http://ncbg.unc.edu/certificate-programs/

14th Annual
Jenny Elder Fitch Memorial Lecture

Thomas Jefferson, Gardener

October 20, 2:30 pm
followed by a reception & book signing

Peter Hatch
Director of Gardens & Grounds, ret.
Thomas Jefferson Foundation at Monticello

Join us for this special free program on a fall Sunday! Peter Hatch will discuss the various themes that defined Thomas Jefferson’s interest in gardening and the natural world, the restoration of the gardens and landscape at Monticello over the last 50 years, and how the fruits, flowers, and vegetables Jefferson cultivated have evolved over the last two centuries. Hatch is the author of “A Rich Spot of Earth”—Thomas Jefferson’s Revolutionary Garden at Monticello.

This lecture is free but advance registration is required.
Celebrating Tree Leaves and Fall Color with Photography
Peter White, NCBG Director
Saturday, Sep 28, 2:00–4:00 pm
Join Peter White and explore the world of tree leaves and the hues and stages of fall color. Participants will collect leaves on a group walk along the Nature Trails and then return to the classroom to discuss what we can learn from our collections. We will then use our cameras to create unique composite “leaf pictures.” Over the years, Peter has illustrated his travels and botanical explorations by making and photographing similar leaf collections. This workshop will be a unique blend of individual discovery, tree identification and ecology, fall color, and creativity with photography! Bring your digital camera. Fee: $15 ($10 NCBG members)

Fall Leaves in Colored Pencil
Linda Koffenberger, Professional Artist
Saturday, Oct 5, 1:00–4:30 pm
This workshop is intended for anyone interested in drawing fall leaves. Students receive easy-to-follow instructions in colored pencil to complete a tree leaf species native to NC. (Also serves as ¼ elective credit for the Certificate in Botanical Art & Illustration.) No prerequisites. Fee: $40 ($35 NCBG members)

Glorious Fall Wildflowers Garden Tour
Saturday, Oct 5, 10:00–1:00 pm
The fall is a great time to spot native wildflowers in North Carolina. Join us for a free, 60-minute tour of our Display Gardens, where we will learn about asters, sunflowers, and other native wildflowers that put on a show this time of year. Pick up some gardening tips that will help you add a splash of fall color to your home garden and see some can’t-miss native wildflowers that no home garden should go without. Free, but advance registration is required.

The Arboretum on a Fall Day
Margo MacIntyre, Curator, Coker Arboretum
Sunday, Sep 29, 2:00–3:00 pm
Join us for a special seasonal tour of the Coker Arboretum, held in memory of UNC Student Body president Eve Carson. Eve once remarked that “the Arboretum on a fall day” was one of her four favorite experiences on the UNC campus. Tour with us and learn about the history and diversity of the Arboretum, the jewel of a beautiful campus. Discover how the “turning” of leaves as trees enter their dormant winter state is an adaptation to climate that is actively directed by the plants. Fee: $15 ($10 NCBG members)

Fall Color: Where, Why, When, & Wow!
Monday, Sep 30, 2:30–4:00 pm
Johnny Randall, NCBG Director of Conservation Programs
We are blessed in Eastern North America with a dazzling array of fall colors. This phenomenon represents an interesting interplay of chemistry, physiology, genetics, weather, and the general environment. Johnny Randall explores these color change factors and the biogeography of where and why certain regions of the Earth have a particularly recognizable fall color variation in their flora whereas others do not. He will also speculate on the coevolutionary relationship between plants and humans in what might be called the “burning bush effect.” Fee: $15 ($10 NCBG members)

Early Autumn at Mason Farm
Sunday, Oct 6, 2:00–4:00 pm
Ed Harrison, Naturalist
Spring isn’t the only time of year that Mason Farm Biological Reserve is worth a scenic stroll! Join naturalist Ed Harrison for an in-depth tour of the “old farm trail” that travels through some 260 years of cultural and natural history. Ed will point out early fall wildflowers and others as well as discuss the many positive effects of the Garden’s intense management for both field and forest on the Reserve. Meet at the NCBG Visitor Parking Lot gazebo. Fee: $10 ($5 NCBG members). Advance registration is required!

Pollination
Saturdays, Sep 7, 14, 21, Oct 5, 9:00 am–12:00 pm
Anne Lindsey, Botanist
Please see our website for description... Fee: $125 ($115 NCBG members)

Introduction to Mushrooms
Rytas Vilgalys, Biologist, Duke University
Saturday, Sep 14, 9:30 am–4:00 pm
For a broad audience, this class is an introduction to mushrooms—identification, ecology, and cultivation. Includes classroom discussion on the basic taxonomy of fleshy fungi and a foray to a nearby forest. Bring your lunch. Fee: $70 ($65 NCBG members)

Native Edible & Medicinal Woody Plants of the NC Piedmont (New!)
Kim Calhoun, Herbalist/Wild Food Enthusiast
Tuesday, Sep 17, 24, Oct 1, 8; 1:00–4:00 pm
Learn some of the traditional medicinal uses and food gifts of our native woody plants and how to bring them into your life. In this field study, suitable for all levels, we’ll explore the Garden, Nature Trail, Coker Arboretum, and Mason Farm. Woody plant identification, safe and sustainable harvesting, preparation, and uses will be covered in a fun, reverent, and accessible way. Fee: $125 ($115 NCBG members)

Lichens
Eimy Rivas Plata, Lichenologist
Saturday, Oct 12, 9:30 am–4:30 pm
Lichens, symbiotic organisms that consist of fungal, algal, and bacterial partners, are among the first life forms to live on land. They occupy nearly every habitat on Earth and grow on many surfaces of our environment. This class introduces students to the fascinating world of lichen biology, the dazzling diversity of the local lichen florum, and lichens’ importance as indicators of environmental health. Includes lecture, demonstrations, and a field trip. Bring your lunch. Fee: $80 ($70 NCBG members)

Dendrology
Steph Jeffries, Forest Ecologist
Tuesdays, Sep 17, 24, Oct 1, 8; 1:00–4:00 pm
This course is designed for anyone who wishes to learn to identify most of the common Piedmont tree species. Students spend much of class time outdoors in the Garden learning to identify trees using morphological characteristics: leaves, bark, twigs, fruits. The ecology and natural history of each tree species are discussed too. Fee: $125 ($115 NCBG members)

BOOK REVIEW: Wilderness and the American Mind by Roderick Nash
Peter White, NCBG Director
Thursday, Oct 17, 7:00–8:30 pm
Students independently read Roderick Nash’s book and come together to discuss attitudes of Americans toward the idea of wilderness, the book’s impact on the environmental movement and the future of wilderness as it reflects ethical and biocentric relevance. Fee: $20 ($18 NCBG members)

more programs on next page...
Join us for this lunchtime lecture that examines and critiques “nature-deficit disorder” (NDD), Richard Louv’s popular theory of how and why children are alienated from nature. We will explore NDD within the context of one North Carolina forest environmental education program that aligns with and uses Louv’s message. Underlying Louv’s message is a cultural assumption about human-nature relationships that relies on a “fall-recovery narrative” (that children are separated from nature and must return) and which promotes science and naming as ways to reconnect youth to nature. This presentation explores how NDD may be a problematic environmental message that obscures the problem. Dr. Dickinson’s social scientific research explores the relationship between culture, nature, communication, and environmental education.

**Drawing the Natural Gardens of North Carolina**

*Monday, October 21, 12:00–1:00 pm*

Betty Lou Chaika, Graduate of NCBG’s Certificate in Botanical Art & Illustration and Certificate in Native Plant Studies

Betty Lou has visited many of the incredibly varied natural communities across our state. In her colorful drawings she creates visual narratives that convey the ecology, diversity, and beauty of these sacred places. This slide lecture will be of interest to students of field sketching and nature journaling and anyone else who would like to learn more about our wonderful native habitats and how to visit them.

**The Occoneechi & Their Predecessors:**

*Archaeological Discoveries Near Hillsborough, NC*

*Tuesday, November 12, 12:00–1:00 pm*

Steve Davis, Research Archeologist and Associate Director, Research Laboratories of Archaeology, and Adjunct Professor of Anthropology, UNC-CH

Explore Occoneechi sites in Orange County. These are some of the earliest sites in North Carolina and possess rich evidence of the Occoneechi and their predecessors.

**Native Seed Propagation**

*Oct 19, 9:30 am–12:30 pm*

Heather Summer, NCBG Seed Program Coordinator & Matt Gocke, NCBG Nursery Manager

This course is intended for a broad audience. Learn seed propagation techniques for native perennials and woody plants. Topics include seed collection methods, post-collection handling, cleaning equipment and techniques, seed storage, seed sowing techniques, sowing media, cultural requirements of seedlings, and dormancy requirements. Fee: $40 ($35 NCBG members)

**Piedmont Plants Walk-and-Talk**

*Saturday, Sep 7, 9:00–10:30am*

Chris Liloia, NCBG Curator

Join curator Chris Liloia for a morning exploration of the Piedmont Habitat Collection. She will talk about the creation of this new garden and touch on issues such as conservation and the benefits of creating a garden based on the local flora. She will also talk about the fun of experimenting with familiar and new perennials and grasses. This is a great way to get plant ideas for your own garden! Fee: $15 ($10 NCBG members)

**Artistic Landscape Design**

*Sunday, Oct 6, 2:00–3:30 pm*

Sarah Konradi, Landscape Designer

Are you a gardener who is interested in moving beyond the basics and creating a landscape with character, personality, and that certain je ne sais quoi? Visit the NCBG during the 25th Sculpture in the Garden exhibition and take this class, which explores ways to create visual harmony and unity within the garden, whether starting from scratch or renovating an established garden space. The fundamental concept of landscape design—problem solving through the use of horticultural science, artful composition, and spatial organization—will be discussed as we consider ways to add artistic, personal, unique elements to the home landscape. Fee: $40 ($35 NCBG members)

**Kitchen Herbalism**

*Oct 13, 1:30–4:33 pm*

Ricky Bratz, Herbalist

Exploring your kitchen cupboards is one of the easiest ways to incorporate herbs into your life. Powdered herbs/spices are readily absorbed by the body and are easy to find! Learn how some of the most common herbs like cinnamon, thyme, cayenne, garlic, mint, rosemary, turmeric, and ginger are some of the most powerful herbs available. We will discuss their uses as food and as medicine. If you have any of these spices in your cabinet you're already an herbalist! We will take advantage of the kitchen space at NCBG to make medicinal foods, from powerful pesto to herbal vinegars that you can sample and take home. Fee: $40 ($35 NCBG members)
Watercolor Workshop
Saturday, Nov 9, 9:30 am–12:30 pm
Elizabeth Ellison, Professional Artist
This short course provides a brief review of color theory and its importance in painting, and demonstrations of techniques that Elizabeth has found useful in watercolor painting. Her primary approach is wet-in-wet, but other applications will be explored. Participants practice some of the demonstrated techniques with individual input from the instructor. This course is open to anyone. Materials list will be sent after registration.
Fee: $40 ($35 NCBG members). See instructor's bio under “Earth & Sky,” below.

Edible, Utilitarian, and Religio-Medical Plants Used by the Cherokees
Saturday Nov 9, 2:00–3:00 pm
George Ellison, Writer, Naturalist, Lecturer, Historian
An opening discussion will consider the origins of Cherokee plant lore and the extent to which the early white settlers in the Blue Ridge learned practical usage from them. A set of images depicting various plants (ramps, Indian hemp, May-apple, touch-me-not, poison ivy, etc.) will be discussed. Emphasis will be placed on ginseng (as a trade commodity); river cane (blowguns, arrows, building material, mats, fences, etc.); buckeye and devil’s-shoestring (as a “fish dope”); green-headed coneflower (and other spring greens); plant dyes (basket splints and other items); and plants evoked in the “sacred formulas” (songs and chants) for religious and medicinal purposes. The lecture will be followed by a book signing by George and his wife Elizabeth. Their books include Mountain Passages, Blue Ridge Nature Journal, and Permanent Camp. Fee: $10 ($5 NCBG members).

Plant Identification and Indian Lore Walk
Sunday, Nov 10, 3:00 – 4:30 pm
George Ellison, Writer, Naturalist, Lecturer, Historian
For 25 years George has taught workshops in how to use Newcomb’s Wildflower Guide, a unique non-technical field guide that significantly enhances the wildflower, shrub, and vine identification skills of those still using the “turn-the-pages-in-a-picture-book-and-hope-you-stumble-on-it” approach. Newcomb’s makes the identification process a more active endeavor than simply turning pages and asks that you pay closer attention to the plants you are identifying. This session will be followed by an Indian lore walk in the garden. Fee: $10 ($5 NCBG members). If you have a copy, please bring. Otherwise, we can loan you a copy or you can visit our Garden Shop to purchase one.

The Occaneechi and Their Predecessors: Archaeological Discoveries Near Hillsborough, NC
Tuesday, Nov 12, 12:00–1:00 pm
Steve Davis, Research Archaeologist/Associate Director of the Research Laboratories of Archaeology, Adjunct Professor of Anthropology, UNC-CH
Between 1983 and 2002, Steve Davis, along with colleagues and students from UNC, excavated a late-prehistoric and two early historic Indian village sites just outside Hillsborough on the Eno River. The latest of these sites was occupied during the late 1600s and early 1700s by the Occaneechi Indians. Steve will talk about the results of those excavations and what he learned about the people who lived in these three villages. Steve is editor of the North Carolina Archaeological Society’s journal North Carolina Archaeology. Free, but advance registration recommended.

\[ \text{Please join us for one of two special programs, offered in partnership with the UNC American Indian Center} \]

Preserving Our Culture through Land Stewardship: The Story of the Triangle Native American Society & the Wake County Indian Education Community Garden
Saturday, Nov 9, 10:30–11:30 am
Jeff Currie (Lumbee), Indigenous Horticulturist, Historian, Folklorist
Learn about the Healthy Native North Carolinians project in which Native youth, adults, and elders are working together to preserve cultural heritage, promote health, and foster land stewardship through community gardening and educational aquaponic gardening. Jeff Currie—member of the Lumbee Tribe of North Carolina and a community member of the Triangle Native American Society—helped start the educational gardens at the NC Museum of History. Advance registration recommended. Please plan to stay and join us for a special musical performance by UNC Unheard Voices at noon (see below).

Musical Performance by “Unheard Voices”
Saturday, Nov 9, 12:00–12:30 pm
“Unheard Voices” was officially founded in the 1970s as an American Indian spoken word performance group. Today, in honoring their roots, they combine spoken word advocacy with traditional songs for a unique and powerful expression of cultural pride and resilience. “Unheard Voices” is an a capella performance subgroup of the Carolina Indian Circle, a student organization at the University of North Carolina at Chapel Hill. This free, family-friendly event is open to the public. Advance registration recommended.

\[ \text{more programs on next page . . . >>} \]
Art and Nature

Drawing for People Who Think They Can’t Draw (Short Course)
Saturday, Aug 10, 1:00–4:30 pm
Emma Skurnick, Professional Artist
This workshop shows students that drawing is a skill anyone can learn. Students progress from a blank sheet of paper to a beautiful, finished drawing. Come discover that yes, you can draw! Fee: $40 ($35 NCBG members)

Beginning Drawing
Wednesdays, Aug 21, 28; Sep 4, 11; 9:30 am–1:00 pm
Emma Skurnick, Professional Artist
An entry-level course for the Certificate in Botanical Illustration, this is designed for a broad audience. Students learn the fundamentals of illustration through contour drawing, negative space, perspective, and tone. Fee: $125 ($115 NCBG members)

How to Safely Use Photographs in a Painting (NEW Short Course)
Sunday, Sep 8, 1:15–4:45 pm
Patricia Savage, Professional Artist
Students will explore the pitfalls and benefits of photography and learn how to combine these into a cohesive composition. Sketches and photographs will be taken in the gardens and will be used to develop a composite composition and black and white value sketch. Fee: $40 ($35 NCBG members)

Sculpture in the Garden:
A Sculptor’s Perspective
Sunday, Sep 22, 3:00–4:00 pm
Tinka Jordy, Professional Sculptor Artist
Join sculptor Tinka Jordy for a 1-hour walk-and-talk of the 25th Sculpture in the Garden exhibition. Tinka has been working as a professional artist for 35 years and her work is exhibited and collected internationally. Tinka was honored at the North Carolina Botanical Garden’s 21st Sculpture in the Garden show with a Best in Show award for her figurative stoneware sculpture, “Balance.” She is a board member of the Hillsborough Arts Council. Free, but advance registration required.

Introduction to Plein Air
Thursday, Sep 26, Oct 10, 17, 24; 1:00–4:30 pm
Brenda Behr, Professional Artist
Plein Air is an elective four-week course designed to teach the basic techniques and tools of painting outdoors using watercolor. The nature landscapes in the Botanical Garden will serve as the subject for the paintings. Prerequisite: Intermediate Watercolor Techniques. Fee: $125 ($115 NCBG members)

Field Sketching
Mondays, Oct 7, 14, 21, 28; 1:00–4:30 pm
Emma Skurnick, Professional Artist
Take your sketchbook outdoors and reconnect with plants in their natural environment. In this course, students are encouraged to shed old habits and try new techniques as they travel to a variety of gardens and habitats. Through a combination of guided exercises and free experimentation, students discover new ways of seeing plants, new problem-solving skills, and a refreshing way of thinking about layout and color. Several media are used, from ballpoint pen to watercolor to pencil. Fee: $125 ($115 NCBG members)

Nature Journaling Seasonal Continuum
Jeannine Reese, Professional Artist
Session I: Saturday, Oct 19, 1:15–4:45 pm;
Session II: Monday, Nov 4, 1:00 - 4:30 pm
You may take one or both sessions!
Join us for a Nature Journaling Seasonal Continuum to record nature’s ever-changing seasonal cycles. This fall we will look at Nature’s last burst of glory as she prepares for the dormancy of winter. We will explore many different materials and means for portable nature journaling—an activity that can be enjoyed from backyard familiarity to distant lands and exotic diversity. We will pick up the thread again and chart our growth in a winter 2014 class. Fee: $40 per session ($35 NCBG members)

Lichens: Science & Art (Short Course)
Saturday, Nov 2, 9:00 am–4:00 pm
& Sunday, Nov 3, 1:15–4:45 pm
Eirny Rivas Plata, Lichenologist & Linda Koffenberger, Professional Artist
The beauty found among lichens is fascinating. Not only do they have highly diverse morphological features, but their striking and colorful patterns make them unique in nature. This class introduces students to the growing world of lichen-inspired art, a field with recent exhibits by such institutions as the American Society of Botanical Artists. This two-day workshop will include lectures on lichen morphological characters and on the history of art designs based on lichens, as well as a short drawing lesson in the classroom and sketching in the field. By the end, student will be able to create their own lichen drawings. Fee: $105 ($95 NCBG members)

Holiday Leaf-Ornament Workshop
Saturday, Nov 23, 2:00–4:00 pm
Nina Forsyth, Master Gardener, NCBG Volunteer
Join nurse-artist and botanical illustrator Beverly Dyer for this expressive painting workshop where we will make beautiful hand-painted holiday cards and tags. Art Prescription workshops are designed to encourage creativity with a dose of art to promote wellness and give the immune system a boost. Have fun, reduce holiday stress, and let the muse play! Each participant will leave with 5 holiday cards + envelopes and 5 tags for gifts or place settings. Cards + envelopes provided; bring your favorite watercolor paint and brushes, a medium-size round brush, and a palette. All levels welcome! Fee: $25 ($20 NCBG members). See www.artprescription.com

Art Prescription Workshop: Art Prescription Workshop:
Holiday Cards and Tags
Sunday, Nov 17, 2:00–4:00 pm
Bev Dyer, MSN, RN, Certified Botanical Illustrator
Join nurse-artist and botanical illustrator Beverly Dyer for this expressive painting workshop where we will make beautiful hand-painted holiday cards and tags. Art Prescription workshops are designed to encourage creativity with a dose of art to promote wellness and give the immune system a boost. Have fun, reduce holiday stress, and let the muse play! Each participant will leave with 5 holiday cards + envelopes and 5 tags for gifts or place settings. Cards + envelopes provided; bring your favorite watercolor paint and brushes, a medium-size round brush, and a palette. All levels welcome! Fee: $25 ($20 NCBG members). See www.artprescription.com

Holiday Leaf-Ornament Workshop
Saturday, Nov 23, 2:00–4:00 pm
Nina Forsyth, Master Gardener, NCBG Volunteer
Nina Forsyth leads this workshop to make beautiful ornaments from leaves. We will focus on a design composed of oak leaves decorated with woodland treasures such as nuts, cones, and feathers. Take one home and leave one for the Garden’s holiday tree. Materials provided. Free, but advance registration required.

REGISTRATION IS ONLINE
Advance registration is required for all programs unless otherwise indicated!
**Children's Programs**

**Tuesdays, Sep 24–Oct 29; 1:30–3:30 pm (6-session class)**  
Learning comes naturally for 4- and 5-year-olds during this fun-filled series that encourages exploration and fosters a sense of wonder for the natural world. This fall, preschoolers will learn about the marvels of changing colors, flying seeds, and migrating animals through hands-on activities, nature walks, puppet shows, stories, crafts, and group play. Snack provided. Homeschoolers welcome! Fee: $105 ($95 NCBG members)

**Blazing-Stars: Afterschool Nature Club (ages 6–8)**  
**Theme: “Amazing Adaptations”  
**Thursdays, Sep 19–Oct 31, 3:30–5:00 pm (no class on 10/3)**  
Why do some plants have thorns? Why does a bird migrate in fall? How does a frog survive the freezing winter? Children will explore these questions and more during this after-school series focused on how different adaptations contribute to the success and survival of various plants and animals. Hands-on activities, environmental games, and crafts make learning fun and engaging. This program offers an exciting complement to your child's science education and an opportunity to enjoy the outdoors. Homeschoolers welcome! Fee: $80 ($72 NCBG members)

**Mosaic Workshop: Pollinators in the Garden (ages 8–12)**  
**Wednesdays, Sep 18 & 25, 1:00–4:00 pm (installation Sat, Oct 19, time tba)**  
Local professional mosaic artist Jeannette Brossart will lead students in the design and creation of a pollinator-inspired mosaic for the Children’s Wonder Garden during this 3-session class. Students will participate in the design, creation, and hands-on making with glass and tile. This is a unique opportunity to work with a professional artist on a collaborative, permanent project for the Garden. All materials provided. Fee: $75 ($68 NCBG members)

**Nature Illustration for Kids (ages 8–12)**  
**Wednesdays, Oct 2–Nov 6, 1:30–4:00 pm**  
Bob Palmier, Artist and Environmental Educator  
Explore fall in the gardens, forests, and wetlands at the Botanical Garden during this unique and exciting 6-week class that combines nature illustration techniques with hands-on science learning. Participants will explore the studio techniques and materials of professional nature illustrators. They will also spend time outdoors sketching, observing, and learning about the secret life of turtles, silk moth caterpillars, fall wildflowers, leaf color change, and more. Matted illustrations completed during the course by each student will be displayed at a Fall Nature Art Show at the Garden, with an artists’ reception for friends and family. Fee: $175 ($158 NCBG members), includes student art kit and use of other professional supplies

**Nature Painting with Watercolor & Mixed Media (ages 8–12)**  
**(4-session class)**  
**Saturdays, Oct 5, 12, 19, 26; 10:00 am–12:00 pm**  
Annie Nashold, Artist and Environmental Educator  
In this class students will explore themes in nature through observation and sketching. Ideas will be gathered outdoors and taken into our studio classroom. Finished paintings will be created using watercolor, pen & ink, watercolor pencils, collage, and other mixed media. Lots of fun techniques will be explored to enhance images inspired by the beauty in the garden. Fee: $80 ($72 NCBG members)

**Family Programs**

**Magic in the Garden (ages 4 & up w/ adult)**  
**Saturday, Oct 12, 10:00 am–12:00 pm**  
Offered in partnership with Kizu Children’s Museum!  
The young and young-at-heart are invited to join us for an enchanting morning of family fun in the children’s Wonder Garden! Build magical homes for fairies, elves, and other wee folk using natural materials, craft your own fairy wings, plant a magical seed, and more. Bring your imagination and love of nature . . . and come dressed in your most magical costume! Fee per child: $10 ($9 NCBG members)

**A Family Sculpture in the Garden Workshop . . .**  
**The Art of Balance: Beauty in the Backyard (ages 6 & up w/ adult)**  
<<< See description here on page 10.

**Nature Hikes/Tours**

**Glorious Fall Wildflowers Garden Tour**  
**Saturday, Oct 5, 10:00–11:00 am, rain or shine**  
The fall is a great time to spot native wildflowers in North Carolina. Join us for a free, 60-minute tour of our Display Gardens, where we will learn about asters, sunflowers, and other native wildflowers that put on a show this time of year. Pick up some gardening tips that will help you add a splash of fall color to your home garden and see some can’t-miss native wildflowers that no home garden should go without. Free, but advance registration is required.

**Early Autumn at Mason Farm**  
**Sunday, Oct 6, 1:00–3:30 pm**  
Ed Harrison, Naturalist  
Spring isn’t the only time of year that Mason Farm Biological Reserve is worth a scenic stroll! Join naturalist Ed Harrison for an in-depth tour of the “old farm trail” that travels through some 260 years of cultural and natural history. Ed will point out early fall wildflowers and others as well as discuss the many positive effects of the Garden’s intense management for both field and forest on the Reserve. Meet at the NCBG Visitor Parking Lot gazebo. Fee: $10 ($5 NCBG members)

**Peak of Autumn at Penny’s Bend**  
**Saturday, Oct 26, 1:00–4:00 pm**  
Ed Harrison, Naturalist  
Take a walk through the colorful fall landscape of this remnant 84-acre diabase glade and Piedmont prairie in northwest Durham, surrounded on three sides by the Eno River. Penny’s Bend Nature Preserve, managed by NCBG, encompasses mature forests as well as remnant prairies with numerous regionally rare plants. Late-October/early November is generally the peak of fall color season in the Piedmont. Fee: $10 ($5 NCBG members). Meeting place will be sent to you after registration. Please Note: This hike is about 2 miles in length, and much of it is on uneven terrain. Wear sturdy hiking footwear and carry a walking stick if you use one, as well as water.
Southeastern North Carolina boasts a great, if not the greatest, concentration and diversity of carnivorous plants on the planet: approximately 32 species across the genera *Utricularia* (bladderworts), *Pinguicula* (butterworts), *Drosera* (sundews), *Sarracenia* (pitcherplants), and *Dionaea* (Venus’ flytrap). These and hundreds of other plant species are adapted to the soggy, peaty soils of pocosins and the more porous soils of wet pine savannas. Both habitats are fire prone and the plants that occupy them are, in fact, dependent on fire.

Habitat alterations such as ditching to drain land for crops, forestry, roads, etc., and fire suppression, which results in heavy shrub cover and plant competition, have devastated many pocosin and wet pine savanna ecosystems. Ditching and draining of pocosins in particular creates a recipe for disaster. The 2011 Juniper Road Fire in Holly Shelter, for example, burned over 31,000 acres, took months to extinguish because of the dry organic soils, and cost the state over $3.5 million dollars.

Nevertheless, considerable habitat for carnivorous plants remains on vast tracts of undeveloped lands, including The Nature Conservancy’s Green Swamp preserve, national forests like the Croatan, gamelands such as Holly Shelter, and the military reservations of Camp Lejeune and Ft. Bragg. There are also smaller preserves, too numerous to name, which hold bountiful carnivorous plant populations. And there are thousands of acres of high quality habitat on private land that have managed to escape development.

I am going to go out on a limb and say that there is enough protected land containing pocosins and wet savannas to ensure carnivorous plant persistence. The insidious practice of poaching, however, completely undoes land conservation efforts that were taken to protect these very plants. It’s like saving a museum from the wrecking ball only to have all the paintings stolen!

Venus’ flytrap (*Dionaea muscipula*)—also known as “meadow clams”—is named for the “daughter of Dione” (Aphrodite/Venus) and the Latin term for “mousetrap,” *muscipula*. This “most wonderful plant in the world,” according to Charles Darwin, is endemic to a 90-mile radius around Wilmington, NC. At last count by the NC Natural Heritage Program, 67 populations now occur in 11 counties, but only 9 are of excellent viability; 31 populations are considered extirpated. There is only one population in SC, and it is in steep decline due to poaching.

Poaching for sale to plant nurseries or to other public outlets is an ongoing threat, but reputable nurseries and garden centers know they can now purchase tissue culture–propagated flytraps for less than poached flytraps. The medicinal plant trade, however, now represents the greatest threat to the Venus’ flytrap.

Medicinals such as “Carnivora” extract are claimed to be immune system boosters; but such activity is unsubstantiated by scientific evidence and is not USDA approved. (See www.carnivora.com for the hype.) “Carnivora” can cause several adverse side effects as well. Most clinical studies done on Venus’ flytrap extract are suspect because they were conducted by the physician who patented “Carnivora.” Flytraps grown from seed and mass-produced through tissue culture provide precisely the same active ingredient (*naphthoquinone plumbagin*), yet advocates insist that wild-collected plants are superior.

So, we have the widespread and unsustainable harvest of North Carolina’s emblematic and “most wonderful” plant—a spectacular example of evolution tilting toward oblivion because of completely unsubstantiated claims of medicinal value. Moreover, flytrap poachers are rarely apprehended, and when they are, it is by the wildlife officers of the NC Wildlife Resources Commission, whose budget has just been cut in half by the NC Legislature!

The NC Plant Conservation Program—the regulatory arm for rare plants in the state—is struggling to forge effective solutions to Venus’ flytrap poaching. One potential source of revenue for funding flytrap protection would be a Venus’ flytrap license plate. The Friends of Plant Conservation already have the perfect license plate logo, and I look forward to standing in line for one!
A Developing Garden notes from Charlotte Jones-Roe, Director of Development

When I lead a tour of the Garden, I sometimes ask, “When did you first become interested in plants and nature?” Some visitors recall gardening at a grandparent’s knee, or a teacher who encouraged them to plant seeds. But for many people the pleasures of plants are rooted in a time before clear memories. One of my favorite things about the Garden is that we offer experiences for every stage of life. How I love to see young parents share happy moments in the Garden with their infants and toddlers! Watching our youngest nature campers and the two- to four-year-old “Sweet Peas” develop affection as well as knowledge about the natural world gives me hope that there will be advocates for our environment coming along the trail. When I observe horticultural therapy classes for people farther along life’s path, I am reminded that gardens may give pleasure in our very last days. I wouldn’t be doing my job if I didn’t ask Garden members for financial support, but I also want to urge you to make a personal investment in the future by sharing your love of plants and nature with others.

As you will see on the enclosed envelope, the dues increase passed by the Botanical Garden Foundation last year has gone into effect. Dues and other unrestricted gifts to the Garden help keep us going and growing in these uncertain times. We appreciate everyone who supports the Garden. Many of you pay your dues, make a gift for your favorite Garden area, and then add something extra to help us pay the bills. More than a thousand of you made gifts for general support in the past quarter, and we are especially grateful for those who added additional gifts, including Tom Kenan, Lawrence Howard, Joan Gillings, Claire and Hudnall Christopher, Betty Kenan, Arthur and Mignon DeBerry, Peter and Ona Pickens, Cristin and Cutler Andrews, William Chapman, Gretchen Cozart, Nancy and Bob DeLong, Randy and Cathy Lambe, Dana Quade, John and Ashley Wilson, the Silver Foundation, Victor Nadler, Adele Hagood, Nan and Edgar Lawton, Lynn Knauff, Paul Mampilly, Frances Rollins, and Tom and Susan Ross. A related fund that will produce income in the future is the Garden’s General Operating Endowment; many thanks to Thomas Mullins, Barbara Hiestand, and Clyde Browning for their foresight and generosity in giving to this permanent fund.

Thanks to everyone who came forward to sponsor the Carolina Moonlight Gala and gave their time to make the event a wonderful occasion. We are also grateful to everyone who contributed or purchased items from the auction. This Botanical Garden Foundation event has brought us new friends and much-needed funds to operate the Garden.

The Garden has received many designated contributions since our last Newsletter. Emily Lambeth is among the contributors to the Garden’s Educational Outreach efforts. The Children’s Wonder Garden continues to attract gifts, including many memorial contributions that appear in the Gift List. We are grateful for these contributions that will allow construction to go forward, and we thank the family members who encouraged others to honor their loved ones in this way.

Healing and Hope Through Science, a program that helps children who are hospitalized experience nature, has received a long list of gifts and grants. A multi-year grant from the Oak Foundation will make a tremendous difference in the scope of the program. Among the other recent gifts for this program were those from John and Rebecca Quackenbush, Florence Chaffin and Specialty Ornamentals, Alvis and Susan Bynum, Melissa and Robert Tolbert, and the Harris Family. Gifts to the Garden’s Horticultural Therapy program included those from the Country Oaks Garden Club, Emily Harris, and Kirsten Walter.

UNC alumni and others want to make sure the Coker Arboretum will always have the support it needs. Among gifts to the Coker Arboretum Endowment were those from Peyton Watson, Thomas Mullins, Jessie Noland, Katherine Kehoe, Cathy and Randy Lambe, and Mary Lynn Haigler Jordan. Gifts from Tom Kenan and the Kenan Foundation will help maintain the Coker Arboretum Water Feature, a lovely place to contemplate life and enjoy the splashing of songbirds.

Battle Park, UNC’s beautiful campus forest, is another area the Garden manages that attracts support from alumni, neighbors, and friends. Among the recent contributors to the Battle Park Endowment were the Ginghoul Corporation, Kathryn Clancy, Lynn Knauff, Bet and Sandy McClamroch, Eunice Brock, James and Nancy Jennings, Eleanor and Robert Broadus, Susan Gravely and Bill Ross, and many others. Recent storms have made extra work for our dedicated staff and interns, and we are grateful for your help in caring for the trails of this treasured area.

Stella Waugh, Margaret Campion, and Mary Stephenson were among those who made generous contributions to build the Mason Farm Endowment, a permanent source of support for this important University-owned land. The Botanical Garden Foundation owns and manages additional natural areas, and Liz Moore
made a contribution to the Natural Areas Endowment, another fund that will provide support in the future.

The Conservation Fund is another popular designation for those who want to help our Conservation Garden in its mission. Among those who made contributions since our last newsletter are Mary Dudley, Ursula Stumpf, Patricia Bissett, Laurinda Burleson, Kathleen Joyce, Peter Dorrance, and Dolly Anne Hunter. Kathy Buck and Ken Moore are among those who have contributed to the Living Plant Fund to purchase needed plant specimens and pay for their care and installation.

Fall at the Garden will bring many exciting classes and events. One I’m particularly excited about will bring together botanists, conservationists, and wildflower lovers to celebrate the publication of *The Flora of Virginia*, a milestone event. On September 14 and 15, there will be a public lecture by author and UNC Herbarium Curator Alan Weakley, an Open House at the Herbarium, and a local field trip—a wonderful opportunity for people interested in plant taxonomy to get back in touch with the Garden, the Herbarium, and with each other.

The UNC Herbarium has received many gifts for various funds including “Friends of the UNC Herbarium” in memory of the Garden’s founding director, C. Ritchie Bell (see Gift List). These expendable gifts will be ever so helpful to Herbarium operations this year. Karen McDougall and Charlotte and Richard Kennedy and others who made gifts to build the Herbarium General Endowment, a source of permanent support. Paul Gabrielson and Mary Love May have established a fund for Molecular Systematics at the UNC Herbarium to support students and materials necessary for modern taxonomic research.

Planned gifts continue to help the Garden. The past two years would have been very difficult indeed without gifts left by our members who planned ahead. Some members allow us to publicize their gifts, while others prefer to give ever so quietly. We are grateful to all who have included the North Carolina Botanical Garden in their plans.

While it is important for us to be informed citizens and work for protection of our environment, I doubt anything we do will be much more important than introducing young people to the natural world. I hope each of you will look for opportunities to share your interest in plants and nature.

With thanks for the many ways in which you support the North Carolina Botanical Garden and its mission,
Gifts

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Mary Jo Muzzey
J. Victor Nadler
Punita Nagapal & Jason Reed
Annie Nashold
Monica Nees
Jessica Nelson
Nancy Lee Newell
Anne Whitlook Nielsen
Biruta Adamins Nielsen
Anna Bair Niemira
Marinell & Nelson Norden
Judy D. Norris
Deborah Ruth Norton
Gail & Michael Norwood
Tom & Jean Nizum
Gerald Neece Oakley
Ann King Oliver
Elise Olsen
Frances F. Olson
Shannon Eide O’Neil
Angela & Michael O’Rand
Margaret O’Shaughnessy
Carolyn A. Owen
John & Nancy Pah
Sally Harmony Palos
M. Francesch Palmer
Gioia Palmieri & Everett Rand
Julie & Michael Papay
continued on next page >>
Gift List , cont’d from p. 15

Mary F. Papish
Soo-Ja K. Park
Carolyn H. Parker
Claire V. Patterson
Margaret P. Parker
Carol Parrent
Byron & Dolores Parry
Margaret Partridge
Adaline Pasour
Deanna & James Patrick
Bettina Patterson
Hilda & John Patterson
Sam & Linda Pearse
David Ross Pearl
Grace Penny
Rebecca L. Perras
Cheryl D. Perry
Judith Scales Peterson
Ann Pham & Michael Shelton
Jean & Robert Phay
Jean & Dickson Phillips
Ona & Peter Pickens
Marilyn Pinschmidt
Gordon & Janice Plumblee
Daniel Bell Plyler
Cletus Pniti
Martin & Meg Pomerantz
Darlene Pommroy
Patricia Heilig Poret
Jacklyn P. Powner
Carrie Goodwin Pothoven
Cheryl & Jeffrey Prather
Margaret & Ted Pratt
Eileen Price
Faie & Jerry Price
Martha Ann Propst
Jane McLennan Parrington
Dana Quade
Inge Antonie Rader
Jerry Redden
Jason & Nancy Reed
Teresa Reed
Eileen A. Regan
Bruce Norton Rehlaender
Donna S. Reilly
Margo Robbins
Sylvianne Robege
Eric Michael Roberts
Wayne Bryant Roberts
Charles Robinson &
Margaret Trauner
Nancy Howes Robinson
Sallie S. Robinson
Martin Joseph Roddy
Charles & Palmyra Rome
Val Rosado
Angela McCaffrey Rosenberg
Andrew Ross
Frances Turner Ross
Barbara Roth
Barbara & Lawrence Rowan
Abbie J. Royster
Virginia & Jeffrey Runge
Donald Barnard Russ
Shelley Rutkin
Andrew M. Sachs
Julia Sadeghi
Erica Jensen Sanchez
Emre Saricicek
George Perry Sawyer Jr.
Margaret E. Scarborough
J. T. Scheick
Elizabeth Scherrer
George Noel Schroeder
David & Margaret Schultz
John Harris Schwab
William K. Schwab Jr.
Valerie Schwartz
Brenda Scott
Suzanne M. Semmes
Michael Frederick Sharp
Cynthia & David Shea
Ann Sherman
Candace Sheroood
Andrew Belding Short &
Andrea D. Vizoso
Blaine & Susan Short
W. Darle Shouse
Robert & Connie Shuping
Martin Sledge
Kim Smart
Sandy Smith
Mary Sonis
Allen & Susan Spalt
Patricia & Robert Spearman
Sports Travel Academy L.L.C.
Diane S. Spotz
Dick & Marge Sprott
Therese St. Peter
Kimberly R. Stahl
Neil & Vonda Stahl
Alice & Frank Stanback
Colleen M. Stapleton-Sharp
Alan & Maxine Stern
Frederick Seward Stevens &
Ramelle Campbell Waters
Ann Stewart
Don W. Stewart
Josephine WeeRon Sipe
Alan E. Stiven
Timothy A. Stratton
Gayle Meil Streifford
Ursla Emily Stumpf
Arthur Norman Sturdvant
Mary C. Sturgess
Edna Glenn Sugis
Edward & Janice Coffey Swab
Barbara Zim Coffey
Samuel M. Taylor &
Nancy Reed
Barbara H. Thakor
Carlson A. Theodore
Charlotte & Wayne Thomann
Barth Thomas
Colin G. Thomas Jr.
Charles & Pat Thompson
Julia Mary Thomison
Robert Williams
Don & Sue Tiedeman
Roberta & Douglas Tilden
Kenneth Tindall &
Susan Turkab
Judith E. Tintimmali
Aubrey & Nancy Tolley
Jeffrey Tomlison
Phyllis Toon
Jonathan Toppen &
Jodi Wheeler-Topp Hen
William S. Towne
Judy A. Townsend
Susan Carol Trabka
Mimi Dobson
Carole Watson Treder
Camilla Tulloch & Don Liner
Janet Miller Turchii
Mary Tyree
John & Toni Umstead
Dean & Margaret Urban
Roberta Van Dalen
Jeanne Van Gemert
Gils Van Staveren
Elisbeth Van Tongeren
David Berndt
Betsey VanHorn
DianeVannais &
Charles Waldren
Sarah Elizabeth Vroom
Gates & Nancy Vrooman
Lisa K. Wagner
Michael Wagner
Stephen A. Wainwright
Lynda B. Waldrep
Joan Walker
Margaret & William Walker
Nancy D. Walker
Marian Wall
Nina Gray Wallace
Julie Walls
Kristen Elsa Walter
Ruth Anderson Walters
William B. Ware
Harriet L. Warner
Rebecca Drane Warren
Julie Warshaw
David & Marion Waters
Jeanne Watkins
Stella Elizabeth Waugh
Anslcy & Kendrick M. Weeks
Frank & Mary Welker
Elizabeth Fortson Wells
Deborah & Holland West
Leona Poole Whithead
Dennis Francis Whigham
Gilbert Case White II
Sylvia White
H. Bradford Whithead Jr.
J. Sharon Whitmore
Alexa & James Whited
Georgia L. Whiltie
Robinette B. Wilkerson Hahn
Carl & Helen Williams
Catherine Berryhill Williams
Pauline H. Williams
Rock & Teresa Williams
Anne Woodward Williamson
Ann Sunner Willoughby
Ann & Frank Wilson
Ashley & John Wilson
Halie & Harry Wilson
Lucy Carver Wilson
Molly A. Wingerer
Kenneth Howe Winter
Robert & Susan Wolff
Andrea Wood
Elizabeth H. Wood
Dana D. & Joe Woody
Barbara Wright
Donald Wright
Virginia Wu
Kathleen B. Wyche
Sandra Phillips Yaggy
Margareta Jane Yarborough
JoAnne Yates
Alice Banks Yeaman
David & Heather Yeowell
Denise Lee Young
Charlie & Nancy Ziamerli

DESIGNATED GIFTS
Batt Park
Stephen Keith & Lisa Glover
Douglas & Roberta Tilden

Batt Park Endowment
Shirley & Robert Bacon
Tammy Bollwage
Maryellen Bowers
Eleanor & Robert Broadsad
Kathryn Virginia Clancy
Evelyn L. Daniel
Kathlyn & Peter Enchelmayer
Patricia Fitzgerald &
Charles Lorelli
Gimghoul Corporation
Danny Glover
Susan Gravely & Bill Ross Jr.
James & Nancy Jennings
Joseph & Monica Kalo
Stephan Keith & Lisa Glover
Fred Waggoner Kiger
Lynn Koss Knauth
Ronald Calvin Knight
Timothy A. Kuhn
Cathy & Randy Lambe
Bet & Sandy McClamroch
Mary & Meg Pomerantz
Christopher Daniel Silva

Carolina Campus
Commodity Garden
Linda & Phil Carl
Katie Stoudemire

Carolina
Moonlight Gala 2013
Please see p. 2 for the list of
sponsors of this year’s Gala. Many
others, too numerous to name,
purchased tickets and auction items.
Thank you!

Cat Care Fund
Karen Harrison
Cathy & Randy Lambe

Children’s Wonder Garden
Jeanne R. Brown
Chapel Hill Garden Club
Edward S. Gregory Jr.
Jane Hollingsworth &
Tom Miller
Kari Hurow
Rachel Jones
Elaine & Garry Lipson
Frederick Seward Stevens &
Ramelle Campbell Waters
Terri Ann Turner

Coker Arboretum
Jackson Lee Mayberry
Heather Nicole Stone

Coker Arboretum
Endowment
Mary Hendriks Archer
Susan Buonocore
Patrck Conley
Rufus & Linda Edmisten
June Hendricks Johnson
Katherine C. Kehoe
Charles Kiddler
Cathy & Randy Lambe
Thomas Curry Lutken
Jeanne & David John
Netric Ellen McLemur
Kert & Minty Mullikin
J. Thomas Mullins
Jesse Virgil Noland Jr.
Tom & Jean Nuzum
M. Fransch Palmer
George Noel Schroeder
Charles & Pat Thompson
Emma Rose Tucker
B. Peyton Watson
Morgan Patricia Zoellner

Coker Arboretum
Water Feature
Thomas S. Kenan III
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Catherine Bollinger &
Tom Scheitlin
Natural Areas Foundation
Jennifer J. Borri
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Diane Vannais &
Charles Waldren
Educaton Center
Molly & Bob Broad
Laurence Ferris
Chris & Brooks Graebner
Lowell & Ruth Hoffman
Kathy Mumphrey
Diane Vannais &
Charles Waldren
Educational Outreach
Karim & Marty Fitzpatrick
Hoffman Nursery Inc., for
Red Nose lecture
Emily Finch Lambeth
Joanne Phillips Lott
NC. Native Plant Society, for
Red Nose lecture
NC. Prescribed Fire Council,
Inc., for Red Nose lecture
Mary Ellen Grigg Pearce

Forest Theatre
Louise Hawes
Forest Theatre Restoration
Stephen Keith & Lisa Glover

General Operating Fund
Endowment
Clyde E. Browning
Barbara B. Hiestand
J. Thomas Mullins
George Perry Sawyer Jr.

Healing & Hope Through Science
Alvis & Susan Bynum
Heather Lewis Harris
John & Rebecca Quackenbush
Specialty Ornamentals—
Florence & Joseph Chaffin
Melissa & Robert Tolbert

Herb Garden Endowment
Catherine Bollinger &
Tom Scheitlin
Horticultural Therapy
James & Sally Baird
Jeanne R. Brown
Susan Buonocore
Emily Harris
William & Jean Leuchtenburg
Kirsten Isis Walter

Living Plant Fund
Catherine Bollinger &
Tom Scheitlin
Kathy Buck & Ken Moore
Barbara & Thomas Driscoll
C. Allan & Susan D. Eure
Margaret & Robert Lloia
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Reserve Endowment
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Campion
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George & Ronnie Jackson
Diane & John Martin
Helmut & Nancy Mueller
Monica Nees
Elizabeth & Jordan Price
Lynne Jewell Rogers
Mary P. Stephens
Stella Elizabeth Waugh

Natural Areas Endowment
Jennifer J. Borri
Elizabeth Lee Moore

Thank you!
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.
Welcome back Brenda Wichmann! It's been a while since Brenda has been part of the Garden staff and we're happy to have her back in the Horticulture department. Since her last stint here Brenda has earned her Master's Degree in botany, worked for the NC Natural Heritage Program, and spent time in the herbaria of UNC-Wilmington and University of Georgia as curator and collections manager, respectively. She's also an experienced gardener! The horticulture department is benefiting greatly from all the skills she brings to our team.

A face you will recognize is Matt Daley, who began volunteering at the Garden six years ago, first as a Tour Guide and then as a volunteer helper to Horticulture staff. For the past two years, Matt has been employed part-time as a horticulture assistant. Currently, he focuses on propagating and growing carnivorous plants for our Garden Shop Plant Sale along with some other functions. Matt has always been a gardener and in fact has been growing carnivorous plants at home for 15 years. We are very grateful to have Matt’s cheerful assistance, and he says it’s perfect for him right now!

Riza Redd joined the Business Office in April. She is assisting with a variety of administrative and human resources tasks. A native of Winston-Salem, Riza has degrees from North Carolina A & T State University and Howard University. Before coming to Chapel Hill from Baltimore, she worked as Director of Operations at Heart & Soul magazine. Riza is married to Brad and has four children. She says she loves the view from inside the Education Center and is very pleased to have the opportunity to learn more about plants and nature.

Amanda Wohlfarth joined the Business Office this spring to help with financial processing, supply ordering, and more, as well as the daily opening and closing of the Education Center. She graduated in 2012 from UNC-Wilmington with majors in Film and English. Amanda’s interests are in activist film making, film editing, and art. “I enjoy working for a conservation garden where I can learn more about the environment and the efforts to save it. Working with people who are dedicated to their jobs and seeing the impacts that they have is great!”

We are pleased to welcome Paula Cook, the new registrar supporting the administration of our public programs. Paula comes to the Garden with a passion for environmental education and conservation, and a genuine love for NCBG. She holds a Bachelors Degree in English from Duke University (with 5 years towards her PhD at Emory University). Paula’s most recent job was as an international communications specialist at Centro Ecologico Akumal, a conservation nonprofit on the Caribbean coast of Mexico.

Shanna Oberreiter, who has worked at the Garden since 2004, became one of the Herbarium staff in May. She is involved in all aspects of our plant collections and has taken a lead role in making our fungal collection available to researchers and the public via mycoportal.org (which is funded by the National Science Foundation). Shanna is working with Dr. Max Hommersand, curator of algae, and loyal volunteers Billy Marinello (UNC undergrad), Emma Kunkel and Canyon Dell’Omo (high school students), Muriel Easterling, Sarah Farmer, and Linda Straughn to affix barcodes and accession numbers onto 55,000 algae specimens for another NSF-funded project.

Meet our summer interns

Once again, we are fortunate to have the following UNC-Chapel Hill students working with us this summer.

Three Conservation interns are are helping with the many on-going management projects in Battle Park and the Piedmont Nature Trails, as well as conducting individual projects. Samantha Pfotenhauer is a rising senior majoring in Environmental Studies, with a concentration in Environmental Decision-making and a minor in Marine Science. “Sam” is also spearheading the effort to increase Battle Park’s and the Garden’s presence on various social media fronts. Andrea Stewart, a rising sophomore, is majoring in Environmental Science, with a minor in Computer Science. Andrea’s individual project is to identify and map several invasive exotic plant populations in our natural areas to help determine restoration goals for a few key sites. Shannon O’Neill, a rising senior, is working on a double major in Environmental Studies and Economics, and a minor in Biology. Shannon’s project is to identify and collect seeds of plants to facilitate native plant population augmentation goals in Battle Park’s restoration sites.

Lauren Moore is the 2013 DeBerry Horticulture Intern at the Coker Arboretum. She is a rising sophomore majoring in Environmental Science. Her willingness to try anything buggy, muddy, or hot makes
The Coker Arboretum was awarded a “mini-grant” from the American Public Gardens Association to purchase a biological compound microscope with camera. We plan on using the device to further our efforts at plant and pest identification.

Chapel Hill made national headlines after receiving record rainfall on June 30. The Coker Arboretum received 8.45 inches between June 28 and June 30, with 4.1 of those inches coming in a deluge on the 30th. The sad news is the loss of two Arboretum trees. Most heartbreaking was the toppling of the *Quercus bicolor*, swamp white oak, that stood in the southeast corner of the Arboretum near the Raleigh Street, Cameron Avenue intersection. Its diameter of 44 inches was only one stunning attribute. Branches spread wide around the whole tree and were large and stately themselves. Water-logged soil and perhaps an injury from a long-ago lightning strike that weakened this tree were likely to blame.

The second loss of June 30 was a cucumber magnolia, *Magnolia acuminata*. Though not as spectacular as the oak, it was a unique specimen and will be missed. It lived close to the gingkos near the middle of the Arboretum.

As always when tragic things happen, people pulled together to handle this emergency. Interns, volunteers, and staff members were helping to drag the brush away within an hour of our reporting the damage. We also have had stellar help from the UNC Grounds Department staff in dealing with the aftermath. Losing trees is difficult, but having the support of our co-workers truly softens the blow. —Margo MacIntyre, Arboretum Curator

Many thanks to Camp Educator Colleen Muse (center), UNC APPLES Intern Samarth Vasisht (right), and Education Intern Franz Schweiger (left), who worked with Elisha Taylor, Coordinator for Children’s & Family Education, to offer 7 weeks of fun-filled natural science camps for ages 4–11 during this summer’s Nature Explorers Summer Camp. These talented and hard-working folks helped to prepare and co-lead camps, develop teaching materials, and care for the Children’s Wonder Garden and Vegetable Garden.

The 2013 North Carolina Botanical Garden Award was presented to April Punsalan, Department of Biology at Western Carolina University for: “The germination ecology of *Helonias bullata* (swamp pink).” The North Carolina Botanical Garden Award is a $200 prize and certificate given by the Garden for a presented paper at the Association of Southeastern Biologists annual meeting that best advances the understanding of the biology and conservation of southeastern plants and/or their ecosystems.
**Art at the Garden**

**Local Color**
new works from alumni of the Botanical Art & Illustration Certificate program

**August 31 – November 7, 2013**

**Three Artists: An Exhibition**
works by the 2013 graduates of the Garden’s Botanical Art & Illustration Program

Classmates Bill Alberti, Patricia Lockwood Davis, and Lynn Schmoock exhibit examples of their work in assorted media, produced in the classroom and independently.

Join us for a special reception: October 6, 3:30 pm

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**November 9–January 5, 2014**

**Earth & Sky: World Without End**

Reception: Sunday, November 10, 2:00 pm

See page 9 for more information.

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**Health & Nature**

**Tai Chi in the Garden**
Sundays, September 8–29; 3:00–4:00 pm

A 4-week experience with Tai Chi instructor Lisa Marcusson. Class starts with a gentle warm up, new movement instruction, and then practice and review. Isabel takes you through the first third of a classical Tai Chi form—simple, low-impact movement appropriate for all abilities. Class will be held outdoors, when possible. Wear loose, comfortable clothing and flat, thin-soled shoes. $60 for the series ($55 NCBG members).

Lisa Marcusson began classical ballet training at age four at the American Ballet Theater School and the Metropolitan Ballet School and began teaching by the age of fifteen. After studies of Yoga and Hindu Philosophy, Ms. Marcusson studied Yang Tai Chi from Professor Cheng Man in Chinatown, NYC and continued studies with many prominent teachers. Since 1995, Lisa has studied and practiced Vipassana Meditation as taught by S.N. Goenkla. Ms. Marcusson began teaching Tai Chi in New York City in the late 1970s and has taught in Durham and Chapel Hill since 1983.

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**Garden Hours**

**Weekdays Year-round:** 8 am – 5 pm

**Weekends through Aug 2013**

- Saturdays 9 am – 6 pm
- Sundays 1 pm – 6 pm

**Weekends Sept–May 2014**

- Saturdays 9 am – 5 pm
- Sundays 1 pm – 5 pm

Consult our website for holiday closings.